

ANALYTICAL REPORT

Invicta Water Treatment
89 Castle Drive
Horley
Surrey
RH6 9DD
Date Received: 05/08/2024

Certificate Number: 1287680-4 Final
Supersedes report 1287680-3
Order Number: IWT 2724
Date Reported: 12/09/2024

Lab Ref.	Sample Details	Method	Test	Result	Units	Limit	Flag
4824855	Desc: SANDGATE NURSERIES RAW BOREHOLE BN5 9UL Order No: IWT 2724 Received Date: 05/08/2024 Tested Date: 05/08/2024 Sampling Date: 05/08/2024 15:30 Sample Type: GW : Ground Water Product: SS-DWREGS	255	Ammonium (Ammonia and Ammonium Ions)	0.081	mg/l	<0.500	
		215	Chloride	33.50	mg/l	<250.00	
		245	Nitrate	<0.9	mg/l	<50.0	
		225	Nitrite	<0.004	mg/l	<0.500	
		calc	Nitrite/Nitrate	0.000	mg/l	<1.000	*
		305	Sulphate	77.2	mg/l	<250.0	
		205	Total Hardness	107.3	mg/l		
		230	Odour - Qualitative	None			*
		230	Odour - Quantitative	0			
		430	Colony Count 3 Days at 22°C	>300	cfu/ml		
		400	E coli	0	mpn/100ml	0	
		400	Total Coliforms	3	mpn/100ml	0	F
		660	Colour	<2	mg/l Pt/Co	<20	
		660	Conductivity	569	uS/cm		
		660	Hydrogen Ion (pH)	7.5	pH_unit	6.5 to 9.5	
		660	Turbidity	2.770	NTU	<4.000	
		ext	Acrylamide	<0.006	µg / l	<0.100	
		ext	Epichloroydrin	<0.1	µg / l	<0.10	*
		ext	Vinyl Chloride	<0.113	µg / l	<0.500	
		3401	Bromate	<0.8	µg / l	<10.0	
		390	Enterococci	0	cfu/100ml	0	
		5413	Total Cyanide	<4.1	µg / l	<50.0	
		765	Mercury	<0.04	µg / l	<1.00	
		745	Antimony	<0.2	µg / l	<5.0	
		745	Arsenic	<1.0	µg / l	<10.0	
		745	Selenium	1.5	µg / l	<10.0	
		740	Boron	<0.040	mg/l	<1.000	
		740	Calcium	105.3	mg/l		
		740	Magnesium	4.8	mg/l		
		740	Sodium	18.7	mg/l	<200.0	
		3371	Fluoride	0.121	mg/l	<1.500	
		3545	2,4,5-T	<0.007	µg / l	<0.100	
		3545	2,4-D	<0.007	µg / l	<0.100	

Disclaimers:

Unless otherwise stated, all results apply to the sample as received. Information provided by the customer (includes Date, Time, Sample Matrix & Sample Description) can affect the validity of the result.
Opinions and interpretations expressed in this report are outside the scope of UKAS accreditation.
Details of Uncertainty of Measurement and Analytical Quality Control are available on request.
Where a statement of conformity to a Regulatory Standard or customer limit is provided, the uncertainty of measurement is not taken into account unless shown on the certificate.
* - denotes non UKAS accredited test
A result of 0 cfu denotes none found in volume analysed
F - Result Exceeds The Maximum Pcv As Defined In The Water Supply (Water Quality) (Amendment) Regulations 2018
doc - individually documented method, details available on request
ext - Analysis subcontracted to an external laboratory



Certificate Number: 1287680-4 Final
 Supercedes report
 1287680-3
Order Number: IWT 2724

Lab Ref.	Sample Details	Method	Test	Result	Units	Limit	Flag
4824855	Continued from Page 1	3545	Bentazone	<0.007	µg / l	<0.100	
		3545	Bromoxynil	<0.007	µg / l	<0.100	
		3545	Dicamba	<0.020	µg / l	<0.100	
		3545	Dichlorprop	<0.003	µg / l	<0.100	
		3545	Fluroxypyr	<0.008	µg / l	<0.100	
		3545	MCPA	<0.008	µg / l	<0.100	
		3545	MCPB	<0.008	µg / l	<0.100	
		3545	Mecoprop (MCPB)	<0.005	µg / l	<0.100	
		3545	Triclopyr	<0.015	µg / l	<0.100	
		2587	Atrazine	<0.002	µg / l	<0.100	
		2587	Carbendazim	<0.001	µg / l	<0.100	
		2587	Carbetamide	<0.002	µg / l	<0.100	
		2587	Chlortoluron	<0.003	µg / l	<0.100	
		2587	Diuron	<0.004	µg / l	<0.100	
		2587	Epoxiconazole	<0.003	µg / l	<0.100	
		2587	Flutriafol	<0.003	µg / l	<0.100	
		2587	Isoproturon	<0.003	µg / l	<0.100	
		2587	Linuron	<0.003	µg / l	<0.100	
		2587	Oxadixyl	<0.003	µg / l	<0.100	
		2587	Pendimethalin	<0.007	µg / l	<0.100	
		2587	Prometryn	<0.002	µg / l	<0.100	
		2587	Propazine	<0.002	µg / l	<0.100	
		2587	Simazine	<0.003	µg / l	<0.100	
		2587	Terbutryn	<0.002	µg / l	<0.100	
		2587	Trietazine	<0.004	µg / l	<0.100	
		480	Benzo (a) pyrene	<0.003	µg / l	<0.010	
		480	Benzo(1,12)perylene	<0.003	µg / l		
		480	Benzo(11,12)fluoranthene	<0.003	µg / l		
		480	Benzo(3,4)fluoranthene	<0.003	µg / l		
		480	Indeno(1,2,3-cd)pyrene	<0.003	µg / l		
		calc	PAH Total	0.000	ug/l	<0.100	*
		775	1,1,1 Trichloroethane	<0.60	µg / l		
		775	1,2-Dichloroethane	<0.12	µg / l	<3.00	
		775	Benzene	<0.02	µg / l	<1.00	
		775	Dibromochloromethane	<0.50	µg / l		
		775	Dichlorobromomethane	<0.43	µg / l		
		775	Tetrachloroethene	<0.15	µg / l	<10.00	
		calc	Tetrachloroethene/Trichloroethene- Sum	0.00	µg / l		*
		775	Tetrachloromethane	<0.11	µg / l	<3.00	
		calc	Total Trihalomethanes	0.00	µg / l	<100.00	*
		775	Tribromomethane	<0.60	µg / l		
		775	Trichloroethene	<0.10	µg / l	<10.00	
		775	Trichloromethane	<0.50	µg / l		
		730	Aluminium	<6.1	µg / l	<200.0	
		730	Copper	<0.009	mg/l	<2.000	

Disclaimers:

Unless otherwise stated, all results apply to the sample as received. Information provided by the customer (includes Date, Time, Sample Matrix & Sample Description) can affect the validity of the result.
 Opinions and interpretations expressed in this report are outside the scope of UKAS accreditation.
 Details of Uncertainty of Measurement and Analytical Quality Control are available on request.
 Where a statement of conformity to a Regulatory Standard or customer limit is provided, the uncertainty of measurement is not taken into account unless shown on the certificate.

* - denotes non UKAS accredited test

A result of 0 cfu denotes none found in volume analysed

F - Result Exceeds The Maximum Pcv As Defined In The Water Supply (Water Quality) (Amendment) Regulations 2018

doc - individually documented method, details available on request

ext - Analysis subcontracted to an external laboratory



1579

Certificate Number: 1287680-4 Final
Supercedes report
1287680-3
Order Number: IWT 2724

Lab Ref.	Sample Details	Method	Test	Result	Units	Limit	Flag
4824855	Continued from Page 2	730	Iron	325.5	µg / l	<200.0	F
		730	Lead	<0.9	µg / l	<10.0	
		730	Manganese	41.1	µg / l	<50.0	
		735	Cadmium	<0.12	µg / l	<5.00	
		735	Chromium	0.8	µg / l	<50.0	
		730	First Draw Copper	<0.009	mg/l	<2.000	
		730	First Draw Lead	<0.9	µg / l	<10.0	
		730	First Draw Nickel	4.3	µg / l	<20.0	
		360	Clostridium perfringens (including spore	0	cfu/100ml	0	
		calc	Pesticides - Total Substances	0.000	ug/l		*
		5823	Aldrin	<0.007	µg / l	<0.030	
		5823	Dichlobenil	<0.004	µg / l	<0.100	
		5823	Dieldrin	<0.006	µg / l	<0.030	
		5823	Heptachlor	<0.009	µg / l	<0.030	
		5823	Heptachlor Epoxide	<0.005	µg / l	<0.030	
		5823	Propyzamide	<0.005	µg / l	<0.100	
		5823	Tri-allate	<0.005	µg / l	<0.100	
		430	Colony Count 2 Days at 37°C	>300	cfu/ml		
		410	Pseudomonas aeruginosa	Competing growth, indicative count 0	cfu/100ml		
		285	Silica	8.79	mg/l		
		310	Suspended Solids	6.4	mg/l		*
		doc	Alkalinity	257.0	mg/l		*
		calc	Bicarbonate Alkalinity	256.17	mg/l		*
		calc	% Transmission	92.7			*
		doc	UV Abs (10mm) @ 254nm Unfiltered	0.033	abs_unit		*
		calc	Total Phosphate	178	µg / l		*
		250	Total Organic Carbon	1.2	mg/l		
		730	Iron (Free)	<7.3	µg / l		
		730	Nickel	4.1	µg / l	<20.0	
		730	Aluminium (Free)	<6.1	µg / l		
			Findings	Filtered Turbidity result of 0.0053 NTU			*
			Indicative Results	See #1 below			*

The sample has exceeded its maximum stability time and as a result the test result(s) may be invalid.

Disclaimers:

Unless otherwise stated, all results apply to the sample as received. Information provided by the customer (includes Date, Time, Sample Matrix & Sample Description) can affect the validity of the result.
Opinions and interpretations expressed in this report are outside the scope of UKAS accreditation.
Details of Uncertainty of Measurement and Analytical Quality Control are available on request.
Where a statement of conformity to a Regulatory Standard or customer limit is provided, the uncertainty of measurement is not taken into account unless shown on the certificate.

* - denotes non UKAS accredited test

A result of 0 cfu denotes none found in volume analysed

F - Result Exceeds The Maximum Pcv As Defined In The Water Supply (Water Quality) (Amendment) Regulations 2018

doc - individually documented method, details available on request

ext - Analysis subcontracted to an external laboratory

This analytical report may not be reproduced, except in full, without the written approval of South East Water Scientific Services.

South East Water Ltd. Registered in England, No.2679874. Registered Office: Rocfort Road, Snodland, Kent ME6 5AH.



1579

Certificate Number: 1287680-4 Final
Supercedes report
1287680-3
Order Number: IWT 2724

#1 - Due to Quality Control failures an indicative result of <0.010 µg/L for Gamma-HCH (Lindane) has been provided



Richard Brown
Laboratory Manager

Disclaimers:

Unless otherwise stated, all results apply to the sample as received. Information provided by the customer (includes Date, Time, Sample Matrix & Sample Description) can affect the validity of the result.
Opinions and interpretations expressed in this report are outside the scope of UKAS accreditation.
Details of Uncertainty of Measurement and Analytical Quality Control are available on request.
Where a statement of conformity to a Regulatory Standard or customer limit is provided, the uncertainty of measurement is not taken into account unless shown on the certificate.

* - denotes non UKAS accredited test

A result of 0 cfu denotes none found in volume analysed

F - Result Exceeds The Maximum Pcv As Defined In The Water Supply (Water Quality) (Amendment) Regulations 2018

doc - individually documented method, details available on request

ext - Analysis subcontracted to an external laboratory



1579