

### Edinburgh Laboratory

Date 18-20 November 2019

DWQR Staff Present

Moira Malcolm, Matt Bower

Scottish Water Staff Present (& Titles)

Elise Cartmell, David McMullan, Peter Jones, Susan Deuchars, Louise Szymanski

#### Summary of Inspection

##### Overall Summary

Juniper house is a large and well-run laboratory. Staff show high levels of competence and analysis is performed to the methods and within appropriate timescales. Small deficiencies noted with automated LIMS sample booking and reanalysis of samples due to high workload.

Number of Findings:

##### Sampling Frequency Compliance

Some 'bunching' of samples was noted, however this was within acceptable limits and all samples examined complied with designated sample frequencies.

##### Sampling

Sampling technique not examined during audit. All paperwork relating to sampling was in order.

##### Transportation

1

Courier logs and depot fridge logs all in order. Some confusion with bottle log 'autoset' records from LIMS on receipt to lab

##### Reagents and Equipment

All equipment examined and reagents in order, in date with relevant servicing and calibration certificates.

##### Analysis

2

All analysis techniques performed as per their methods. Some queries for Taste and odour where it deviates from the 'Blue Book' method

##### Method and Result Recording

Results recorded by analyst and transcribed either by analyst or by direct data capture. All results authorised in accordance with procedures and within specified time limits.

##### Quality Control

1

Quality management systems are appropriate to each method and are being used effectively.

<b>Staffing and Training</b>	
Staff have an excellent understanding of analysis techniques and method, and corrective actions required. Training appropriate.	
<b>Action Following Exceedences</b>	
PIs investigated as appropriate with proportionate corrective actions taken, and all recorded satisfactorily.	