



Interim Report

Envireau Water
 Cedars Farm Barn
 Market Street
 Draycott
 DE72 3NB

Report No: 13-33384/0
 Date Received: 21/08/2013
 Date Tested: 23/08/2013 to / /
 Date Issued: 06/09/2013
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For the attention of: Penny Jenkinson

By email

2 water samples received from Envireau Water (O/N: EW/PJ/1484/94) in 1 litre amber glass bottles were analysed as shown below. Analytical methods employed are available on request.

| Laboratory reference | | | 232206 3720 | 232207 3752 |
|----------------------|-------------|------|----------------|----------------|
| aluminium* | [7429-90-5] | ug/l | 79.0 | 200 |
| cadmium* | [7440-43-9] | ug/l | < 2.0 | < 2.0 |
| calcium* | [7440-70-2] | mg/l | 2100 | 2100 |
| copper* | [7440-50-8] | ug/l | 220 | 390 |
| iron* | [7439-89-6] | mg/l | 8.90 | 17.0 |
| magnesium* | [7439-95-4] | mg/l | 440 | 310 |
| manganese* | [7439-96-5] | ug/l | 620 | 600 |
| mercury* | [7439-97-6] | ug/l | 1.99 | 0.25 |
| potassium* | [7440-09-7] | mg/l | 5700 | 6900 |
| sodium* | [7440-23-5] | mg/l | 65000 | 61000 |
| zinc* | [7440-66-6] | ug/l | 340 | 350 |
| radioactivity* | n/a | Bq/l | To follow | To follow |
| aliphatic C05-C06* | n/a | ug/l | < 1.00 | < 1.00 |
| aliphatic C06-C08* | n/a | ug/l | 9.40 | 29.0 |
| aliphatic C08-C10* | n/a | ug/l | < 0.10 | < 0.10 |
| aliphatic C10-C12* | n/a | ug/l | 72.0 | 29.0 |
| aliphatic C12-C16* | n/a | ug/l | 550 | 160 |
| aliphatic C16-C21* | n/a | ug/l | 200 | 110 |
| aliphatic C21-C35* | n/a | ug/l | 200 | 110 |
| aromatic C05-C07* | n/a | ug/l | 42.0 | 74.0 |
| aromatic C07-C08* | n/a | ug/l | 7.80 | 15.0 |
| aromatic C08-C10* | n/a | ug/l | < 0.10 | < 0.10 |
| aromatic C10-C12* | n/a | ug/l | 7.40 | 1.30 |
| aromatic C12-C16* | n/a | ug/l | 77.0 | 14.0 |
| aromatic C16-C21* | n/a | ug/l | 35.0 | 8.30 |
| aromatic C21-C35* | n/a | ug/l | 79.0 | 30.0 |

| Laboratory reference | | | 232206 3720 | 232207 3752 |
|-------------------------|--------------|----------|----------------|----------------|
| total TPH by GCMS* | n/a | ug/l | 1300 | 580 |
| ammonia | [7664-41-7] | ug/l NH3 | 13000 | 13000 |
| chloride | [16887-00-6] | mg/l | 108000 | 101000 |
| fluoride | [16984-48-8] | mg/l | < 100.0 | < 100.0 |
| nitrate | [14797-55-8] | mg/l | < 100.0 | < 100.0 |
| nitrite | [14797-65-0] | mg/l | < 3000.0 | < 3000.0 |
| phosphate | [14265-44-2] | mg/l | < 100.0 | < 100.0 |
| sulfate | [14808-79-8] | mg/l | 12600 | 11600 |
| conductivity | n/a | uS/cm | 260000 | 250000 |
| density | n/a | g/l | 1100 | 1100 |
| hardness (as carbonate) | n/a | mg/l | 3700 | 3500 |
| bicarbonate | [71-52-3] | mg/l | 390 | 460 |
| acenaphthene | [83-32-9] | ug/l | < 0.02 | < 0.02 |
| acenaphthylene | [208-96-8] | ug/l | < 0.02 | < 0.02 |
| anthracene | [120-12-7] | ug/l | < 0.02 | < 0.02 |
| benzo(a)anthracene | [56-55-3] | ug/l | < 0.02 | < 0.02 |
| benzo(a)pyrene | [50-32-8] | ug/l | < 0.02 | < 0.02 |
| benzo(b)fluoranthene | [205-99-2] | ug/l | < 0.02 | < 0.02 |
| benzo(g,h,i)perylene | [191-24-2] | ug/l | < 0.02 | < 0.02 |
| benzo(k)fluoranthene | [207-08-9] | ug/l | < 0.02 | < 0.02 |
| chrysene | [218-01-9] | ug/l | < 0.02 | < 0.02 |
| dibenzo(a,h)anthracene | [53-70-3] | ug/l | < 0.02 | < 0.02 |
| fluoranthene | [206-44-0] | ug/l | < 0.02 | < 0.02 |
| fluorene | [86-73-7] | ug/l | < 0.02 | < 0.02 |
| indeno(1,2,3-c,d)pyrene | [193-39-5] | ug/l | < 0.02 | < 0.02 |
| naphthalene | [91-20-3] | ug/l | 0.75 | 0.69 |
| phenanthrene | [85-01-8] | ug/l | < 0.02 | < 0.02 |
| pyrene | [129-00-0] | ug/l | < 0.02 | < 0.02 |
| pH | n/a | pH units | 6.7 | 6.3 |
| total dissolved solids | n/a | mg/l | 190000 | 180000 |

* Starred analyses were subcontracted.

Please note that interim results are based on raw data that may not have been checked before the interim results are issued. Final results may be different to interim results.

The result for ammonia in samples 232206 - 232207 were outside the normal dynamic range of the method and it

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| | | |
|----------------------|----------------|----------------|
| Laboratory reference | 232206 3720 | 232207 3752 |
|----------------------|----------------|----------------|

was necessary to dilute the extracts (1:50) in order to bring the responses within the calibrated range. Precision and accuracy may have been adversely affected.
Ammonia results are given to 2 significant figures, actual results are available upon request.

The result for conductivity in samples 232206 - 232207 were outside the normal dynamic range of the method and it was necessary to dilute the extracts (1:100) in order to bring the response within the calibrated range. Precision and accuracy may have been adversely affected.

Sample 232206 and 232207 for Anion: Chloride was diluted 1:100,000 to bring the result within the calibrated range. Results for Nitrite and Sulphate were diluted 1:10,000. The reporting limit for Nitrite has been raised accordingly due to high levels of Chloride interference. Anions: Fluoride, Nitrate, Phosphate and Sulphate were diluted 1:1000 due high levels of Chloride, the reporting limit has been raised accordingly, precision and accuracy may be adversely affected.

TDS results are reported to 2 significant figures, actual results are available upon request.

Hardness results are reported to 2 significant figures, actual results are available upon request.

Alkalinity results are reported to 2 significant figures, actual results are available upon request.

Density results are reported to 2 significant figures and are calculated as mass of a known volume.
Density by displacement is also measured (232206 = 1239g/L and 232207 = 1232g/L).

Neil Donovan
Technical Manager