

Permit Number: EPR/VP3095FS

Operator: Neal Soils

Facility: Neal Soils

Form Number: Surfacewater1

**Reporting of surface water monitoring for quarterly monitoring in August 2019**

| Monitoring Point | Substance / Parameter    | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>  |
|------------------|--------------------------|---|------------------|-----------------------|------|----------------------------|-------------------------------------|---|
| SW01             | Ammoniacal Nitrogen as N | >1 mg/l (1 occasion)<br>>0.5 mg/l (4 consecutive occasions) | Monthly          | 0.21                  | mg/l | TM099                      | 15/08/2019                          | Lab Precision: 1.81%, Bias: 0.72%,<br>Expanded Uncertainty: 4.35%, Sampling Immeasurable  |
| SW01             | BOD, unfiltered          | >18 mg/l (1 occasion)<br>>10 mg/l (3 consecutive occasions) | Monthly          | 3.33                  | mg/l | TM045                      | 15/08/2019                          | Lab Precision: 5.92%, Bias: 8.23%,<br>Expanded Uncertainty: 20.06%, Sampling Immeasurable |
| SW01             | Cadmium (tot.unfilt)     | >0.005 mg/l   | Monthly          | <0.5                  | ug/l | TM152                      | 15/08/2019                          | Lab Precision: 2.8%, Bias: -0.29%,<br>Expanded Uncertainty: 5.88%, Sampling Immeasurable  |
| SW01             | Calcium (Tot. Unfilt.)   | >300 mg/l   | Monthly          | 107                   | mg/l | TM152                      | 15/08/2019                          | Lab Precision: 3%, Bias: -0.08%,<br>Expanded Uncertainty: 6.07%, Sampling Immeasurable    |
| SW01             | Chloride                 | >300 mg/l   | Monthly          | 101                   | mg/l | TM184                      | 15/08/2019                          | Lab Precision: 3.62%, Bias: 3.52%,<br>Expanded Uncertainty: 10.77%, Sampling Immeasurable |

| Monitoring Point | Substance / Parameter   | Trigger level                                   | Reference Period | Result <sup>(1)</sup> | Unit  | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|-------------------------|---|------------------|-----------------------|-------|----------------------------|-------------------------------------|--|
| SW01             | Conductivity @ 20 deg.C | >2000 µS/cm                                     | Monthly          | 0.733                 | mS/cm | TM120                      | 15/08/2019                          | Lab Precision: 0.6%, Bias: 3.19%, Expanded Uncertainty: 4.4%, Sampling Immeasurable    |
| SW01             | GRO >C5-C12             | >2 mg/l   | Monthly          | <50                   | ug/l  | TM245                      | 15/08/2019                          | Lab Precision: 12.21%, Bias: 4.78%, Expanded Uncertainty: 29.2%, Sampling Immeasurable |
| SW01             | Lead (diss.filt)        | >0.25 mg/l                                      | Monthly          | <0.2                  | ug/l  | TM152                      | 15/08/2019                          | Lab Precision: 2.61%, Bias: 1.81%, Expanded Uncertainty: 7.04%, Sampling Immeasurable  |
| SW01             | Nickel (diss.filt)      | >0.1 mg/l                                       | Monthly          | 2.24                  | ug/l  | TM152                      | 15/08/2019                          | Lab Precision: 2.98%, Bias: 0.19%, Expanded Uncertainty: 6.15%, Sampling Immeasurable  |
| SW01             | Nitrate as N            | >1 mg/l   | Monthly          | 0.32                  | mg/l  | TM184                      | 15/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |
| SW01             | Nitrite as N            | >1 mg/l   | Monthly          | 0.0624                | mg/l  | TM184                      | 15/08/2019                          | Lab Precision: 1.26%, Bias: -0.61%, Expanded Uncertainty: 3.13%, Sampling Immeasurable |
| SW01             | Oxygen, dissolved       | <2 mg/l (1 occasion)<br><5 mg/l (3 consecutive) | Monthly          | 4.44                  | mg/l  | TM187                      | 15/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter                 | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit     | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>  |
|------------------|---------------------------------------|---|------------------|-----------------------|----------|----------------------------|-------------------------------------|---|
|                  |                                       | occasions)  |                  |                       |          |                            |                                     |   |
| SW01             | pH                                    | 6.8 – 8.5   | Monthly          | 7.82                  | pH Units | TM256                      | 15/08/2019                          | Lab Precision: 0.03%, Bias: 0.1%,<br>Expanded Uncertainty: 0.16%, Sampling Immeasurable   |
| SW01             | Phosphate (Ortho as PO <sub>4</sub> ) | >1 mg/l   | Monthly          | 0.214                 | mg/l     | TM184                      | 15/08/2019                          | Lab Precision: 1.71%, Bias: 3.09%,<br>Expanded Uncertainty: 6.5%, Sampling Immeasurable   |
| SW01             | Sulphate                              | >300 mg/l   | Monthly          | 115                   | mg/l     | TM184                      | 15/08/2019                          | Lab Precision: 2.47%, Bias: -0.99%,<br>Expanded Uncertainty: 5.92%, Sampling Immeasurable |
| SW01             | Suspended solids, Total               | >250 mg/l (1 occasion)<br>>100 mg/l (3 consecutive occasions)<br>>60 mg/l (4 consecutive occasions) | Monthly          | 27                    | mg/l     | TM022                      | 15/08/2019                          | Lab Precision: 1.17%, Bias: -0.95%,<br>Expanded Uncertainty: 3.3%, Sampling Immeasurable  |
| SW01             | Total Aliphatics >C12-C35 (aq)        | >2 mg/l   | Monthly          | 71                    | ug/l     | TM174                      | 15/08/2019                          | Lab Precision: 9.53%, Bias: 4.87%,<br>Expanded Uncertainty: 23.92%, Sampling Immeasurable |

| Monitoring Point | Substance / Parameter           | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|---------------------------------|---|------------------|-----------------------|------|----------------------------|-------------------------------------|--|
| SW01             | Total Aromatics >EC12-EC35 (aq) | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 15/08/2019                          | Lab Precision: 7.57%, Bias: -9%, Expanded Uncertainty: 24.15%, Sampling Immeasurable   |
| SW01             | Total Oxidised Nitrogen as N    | >2 mg/l   | Monthly          | 0.383                 | mg/l | TM184                      | 15/08/2019                          | Lab Precision: 3.08%, Bias: 3.61%, Expanded Uncertainty: 9.77%, Sampling Immeasurable  |
| SW01             | Zinc (tot.unfilt)               | >1 mg/l   | Monthly          | 50.4                  | ug/l | TM152                      | 15/08/2019                          | Lab Precision: 2.44%, Bias: 2.34%, Expanded Uncertainty: 7.23%, Sampling Immeasurable  |
| SW02             | Ammoniacal Nitrogen as N        | >1 mg/l (1 occasion)<br>>0.5 mg/l (4 consecutive occasions) | Monthly          | 0.239                 | mg/l | TM099                      | 15/08/2019                          | Lab Precision: 1.81%, Bias: 0.72%, Expanded Uncertainty: 4.35%, Sampling Immeasurable  |
| SW02             | BOD, unfiltered                 | >18 mg/l (1 occasion)<br>>10 mg/l (3 consecutive occasions) | Monthly          | 3.67                  | mg/l | TM045                      | 15/08/2019                          | Lab Precision: 5.92%, Bias: 8.23%, Expanded Uncertainty: 20.06%, Sampling Immeasurable |
| SW02             | Cadmium (tot.unfilt)            | >0.005 mg/l   | Monthly          | <0.5                  | ug/l | TM152                      | 15/08/2019                          | Lab Precision: 2.8%, Bias: -0.29%, Expanded Uncertainty: 5.88%, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter   | Trigger level | Reference Period | Result <sup>(1)</sup> | Unit  | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|-------------------------|---------------|------------------|-----------------------|-------|----------------------------|-------------------------------------|--|
| SW02             | Calcium (Tot. Unfilt.)  | >300 mg/l     | Monthly          | 83.8                  | mg/l  | TM152                      | 15/08/2019                          | Lab Precision: 3%, Bias: -0.08%, Expanded Uncertainty: 6.07%, Sampling Immeasurable    |
| SW02             | Chloride                | >300 mg/l     | Monthly          | 62.1                  | mg/l  | TM184                      | 15/08/2019                          | Lab Precision: 3.62%, Bias: 3.52%, Expanded Uncertainty: 10.77%, Sampling Immeasurable |
| SW02             | Conductivity @ 20 deg.C | >2000 µS/cm   | Monthly          | 0.582                 | mS/cm | TM120                      | 15/08/2019                          | Lab Precision: 0.6%, Bias: 3.19%, Expanded Uncertainty: 4.4%, Sampling Immeasurable    |
| SW02             | GRO >C5-C12             | >2 mg/l       | Monthly          | <50                   | ug/l  | TM245                      | 15/08/2019                          | Lab Precision: 12.21%, Bias: 4.78%, Expanded Uncertainty: 29.2%, Sampling Immeasurable |
| SW02             | Lead (diss.filt)        | >0.25 mg/l    | Monthly          | <0.2                  | ug/l  | TM152                      | 15/08/2019                          | Lab Precision: 2.61%, Bias: 1.81%, Expanded Uncertainty: 7.04%, Sampling Immeasurable  |
| SW02             | Nickel (diss.filt)      | >0.1 mg/l     | Monthly          | 1.76                  | ug/l  | TM152                      | 15/08/2019                          | Lab Precision: 2.98%, Bias: 0.19%, Expanded Uncertainty: 6.15%, Sampling Immeasurable  |
| SW02             | Nitrate as N            | >1 mg/l       | Monthly          | 0.328                 | mg/l  | TM184                      | 15/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter                 | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit     | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|---------------------------------------|---|------------------|-----------------------|----------|----------------------------|-------------------------------------|--|
| SW02             | Nitrite as N                          | >1 mg/l   | Monthly          | 0.0548                | mg/l     | TM184                      | 15/08/2019                          | Lab Precision: 1.26%, Bias: -0.61%, Expanded Uncertainty: 3.13%, Sampling Immeasurable |
| SW02             | Oxygen, dissolved                     | <2 mg/l (1 occasion)<br><5 mg/l (3 consecutive occasions)   | Monthly          | 3.91                  | mg/l     | TM187                      | 15/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |
| SW02             | pH                                    | 6.8 – 8.5   | Monthly          | 7.78                  | pH Units | TM256                      | 15/08/2019                          | Lab Precision: 0.03%, Bias: 0.1%, Expanded Uncertainty: 0.16%, Sampling Immeasurable   |
| SW02             | Phosphate (Ortho as PO <sub>4</sub> ) | >1 mg/l   | Monthly          | 0.674                 | mg/l     | TM184                      | 15/08/2019                          | Lab Precision: 1.71%, Bias: 3.09%, Expanded Uncertainty: 6.5%, Sampling Immeasurable   |
| SW02             | Sulphate                              | >300 mg/l   | Monthly          | 63.8                  | mg/l     | TM184                      | 15/08/2019                          | Lab Precision: 2.47%, Bias: -0.99%, Expanded Uncertainty: 5.92%, Sampling Immeasurable |
| SW02             | Suspended solids, Total               | >250 mg/l (1 occasion)<br>>100 mg/l (3 consecutive occasions)<br>>60 mg/l (4 consecutive occasions) | Monthly          | 15                    | mg/l     | TM022                      | 15/08/2019                          | Lab Precision: 1.17%, Bias: -0.95%, Expanded Uncertainty: 3.3%, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter           | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|---------------------------------|---|------------------|-----------------------|------|----------------------------|-------------------------------------|--|
| SW02             | Total Aliphatics >C12-C35 (aq)  | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 15/08/2019                          | Lab Precision: 9.53%, Bias: 4.87%, Expanded Uncertainty: 23.92%, Sampling Immeasurable |
| SW02             | Total Aromatics >EC12-EC35 (aq) | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 15/08/2019                          | Lab Precision: 7.57%, Bias: -9%, Expanded Uncertainty: 24.15%, Sampling Immeasurable   |
| SW02             | Total Oxidised Nitrogen as N    | >2 mg/l   | Monthly          | 0.383                 | mg/l | TM184                      | 15/08/2019                          | Lab Precision: 3.08%, Bias: 3.61%, Expanded Uncertainty: 9.77%, Sampling Immeasurable  |
| SW02             | Zinc (tot.unfilt)               | >1 mg/l   | Monthly          | 26.1                  | ug/l | TM152                      | 15/08/2019                          | Lab Precision: 2.44%, Bias: 2.34%, Expanded Uncertainty: 7.23%, Sampling Immeasurable  |
| SW18             | Ammoniacal Nitrogen as N        | >1 mg/l (1 occasion)<br>>0.5 mg/l (4 consecutive occasions) | Monthly          | 0.363                 | mg/l | TM099                      | 16/08/2019                          | Lab Precision: 1.81%, Bias: 0.72%, Expanded Uncertainty: 4.35%, Sampling Immeasurable  |
| SW18             | BOD, unfiltered                 | >18 mg/l (1 occasion)<br>>10 mg/l (3 consecutive occasions) | Monthly          | 2.33                  | mg/l | TM045                      | 16/08/2019                          | Lab Precision: 5.92%, Bias: 8.23%, Expanded Uncertainty: 20.06%, Sampling Immeasurable |

| Monitoring Point | Substance / Parameter   | Trigger level | Reference Period | Result <sup>(1)</sup> | Unit  | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|-------------------------|---------------|------------------|-----------------------|-------|----------------------------|-------------------------------------|--|
| SW18             | Cadmium (tot.unfilt)    | >0.005 mg/l   | Monthly          | <0.5                  | ug/l  | TM152                      | 16/08/2019                          | Lab Precision: 2.8%, Bias: -0.29%, Expanded Uncertainty: 5.88%, Sampling Immeasurable  |
| SW18             | Calcium (Tot. Unfilt.)  | >300 mg/l     | Monthly          | 172                   | mg/l  | TM152                      | 16/08/2019                          | Lab Precision: 3%, Bias: -0.08%, Expanded Uncertainty: 6.07%, Sampling Immeasurable    |
| SW18             | Chloride                | >300 mg/l     | Monthly          | 173                   | mg/l  | TM184                      | 16/08/2019                          | Lab Precision: 3.62%, Bias: 3.52%, Expanded Uncertainty: 10.77%, Sampling Immeasurable |
| SW18             | Conductivity @ 20 deg.C | >2000 µS/cm   | Monthly          | 1.25                  | mS/cm | TM120                      | 16/08/2019                          | Lab Precision: 0.6%, Bias: 3.19%, Expanded Uncertainty: 4.4%, Sampling Immeasurable    |
| SW18             | GRO >C5-C12             | >2 mg/l       | Monthly          | <50                   | ug/l  | TM245                      | 16/08/2019                          | Lab Precision: 12.21%, Bias: 4.78%, Expanded Uncertainty: 29.2%, Sampling Immeasurable |
| SW18             | Lead (diss.filt)        | >0.25 mg/l    | Monthly          | <1.2                  | ug/l  | TM152                      | 16/08/2019                          | Lab Precision: 2.61%, Bias: 1.81%, Expanded Uncertainty: 7.04%, Sampling Immeasurable  |
| SW18             | Nickel (diss.filt)      | >0.1 mg/l     | Monthly          | 2.66                  | ug/l  | TM152                      | 16/08/2019                          | Lab Precision: 2.98%, Bias: 0.19%, Expanded Uncertainty: 6.15%, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter                 | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit     | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|---------------------------------------|---|------------------|-----------------------|----------|----------------------------|-------------------------------------|--|
| SW18             | Nitrate as N                          | >1 mg/l   | Monthly          | 0.279                 | mg/l     | TM184                      | 16/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |
| SW18             | Nitrite as N                          | >1 mg/l   | Monthly          | <0.0152               | mg/l     | TM184                      | 16/08/2019                          | Lab Precision: 1.26%, Bias: -0.61%, Expanded Uncertainty: 3.13%, Sampling Immeasurable |
| SW18             | Oxygen, dissolved                     | <2 mg/l (1 occasion)<br><5 mg/l (3 consecutive occasions) | Monthly          | 1.32                  | mg/l     | TM187                      | 16/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |
| SW18             | pH                                    | 6.8 – 8.5   | Monthly          | 7.79                  | pH Units | TM256                      | 16/08/2019                          | Lab Precision: 0.03%, Bias: 0.1%, Expanded Uncertainty: 0.16%, Sampling Immeasurable   |
| SW18             | Phosphate (Ortho as PO <sub>4</sub> ) | >1 mg/l   | Monthly          | 1.19                  | mg/l     | TM184                      | 16/08/2019                          | Lab Precision: 1.71%, Bias: 3.09%, Expanded Uncertainty: 6.5%, Sampling Immeasurable   |
| SW18             | Sulphate                              | >300 mg/l   | Monthly          | 254                   | mg/l     | TM184                      | 16/08/2019                          | Lab Precision: 2.47%, Bias: -0.99%, Expanded Uncertainty: 5.92%, Sampling Immeasurable |

| Monitoring Point | Substance / Parameter           | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>  |
|------------------|---------------------------------|---|------------------|-----------------------|------|----------------------------|-------------------------------------|---|
| SW18             | Suspended solids, Total         | >250 mg/l (1 occasion)<br>>100 mg/l (3 consecutive occasions)<br>>60 mg/l (4 consecutive occasions) | Monthly          | 17                    | mg/l | TM022                      | 16/08/2019                          | Lab Precision: 1.17%, Bias: -0.95%,<br>Expanded Uncertainty: 3.3%, Sampling Immeasurable  |
| SW18             | Total Aliphatics >C12-C35 (aq)  | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 16/08/2019                          | Lab Precision: 9.53%, Bias: 4.87%,<br>Expanded Uncertainty: 23.92%, Sampling Immeasurable |
| SW18             | Total Aromatics >EC12-EC35 (aq) | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 16/08/2019                          | Lab Precision: 7.57%, Bias: -9%,<br>Expanded Uncertainty: 24.15%, Sampling Immeasurable   |
| SW18             | Total Oxidised Nitrogen as N    | >2 mg/l   | Monthly          | 0.283                 | mg/l | TM184                      | 16/08/2019                          | Lab Precision: 3.08%, Bias: 3.61%,<br>Expanded Uncertainty: 9.77%, Sampling Immeasurable  |
| SW18             | Zinc (tot.unfilt)               | >1 mg/l   | Monthly          | 9.09                  | ug/l | TM152                      | 16/08/2019                          | Lab Precision: 2.44%, Bias: 2.34%,<br>Expanded Uncertainty: 7.23%, Sampling Immeasurable  |
| SW19             | Ammoniacal Nitrogen as N        | >1 mg/l (1 occasion)<br>>0.5 mg/l (4 consecutive occasions)   | Monthly          | <0.2                  | mg/l | TM099                      | 16/08/2019                          | Lab Precision: 1.81%, Bias: 0.72%,<br>Expanded Uncertainty: 4.35%, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter   | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit  | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>  |
|------------------|-------------------------|---|------------------|-----------------------|-------|----------------------------|-------------------------------------|---|
| SW19             | BOD, unfiltered         | >18 mg/l (1 occasion)<br>>10 mg/l (3 consecutive occasions) | Monthly          | 2.75                  | mg/l  | TM045                      | 16/08/2019                          | Lab Precision: 5.92%, Bias: 8.23%,<br>Expanded Uncertainty: 20.06%, Sampling Immeasurable |
| SW19             | Cadmium (tot.unfilt)    | >0.005 mg/l   | Monthly          | <0.5                  | ug/l  | TM152                      | 16/08/2019                          | Lab Precision: 2.8%, Bias: -0.29%,<br>Expanded Uncertainty: 5.88%, Sampling Immeasurable  |
| SW19             | Calcium (Tot. Unfilt.)  | >300 mg/l   | Monthly          | 144                   | mg/l  | TM152                      | 16/08/2019                          | Lab Precision: 3%, Bias: -0.08%,<br>Expanded Uncertainty: 6.07%, Sampling Immeasurable    |
| SW19             | Chloride                | >300 mg/l   | Monthly          | 198                   | mg/l  | TM184                      | 16/08/2019                          | Lab Precision: 3.62%, Bias: 3.52%,<br>Expanded Uncertainty: 10.77%, Sampling Immeasurable |
| SW19             | Conductivity @ 20 deg.C | >2000 µS/cm   | Monthly          | 1.53                  | mS/cm | TM120                      | 16/08/2019                          | Lab Precision: 0.6%, Bias: 3.19%,<br>Expanded Uncertainty: 4.4%, Sampling Immeasurable    |
| SW19             | GRO >C5-C12             | >2 mg/l   | Monthly          | <50                   | ug/l  | TM245                      | 16/08/2019                          | Lab Precision: 12.21%, Bias: 4.78%,<br>Expanded Uncertainty: 29.2%, Sampling Immeasurable |

| Monitoring Point | Substance / Parameter | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit     | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|-----------------------|---|------------------|-----------------------|----------|----------------------------|-------------------------------------|--|
| SW19             | Lead (diss.filt)      | >0.25 mg/l  | Monthly          | <0.2                  | ug/l     | TM152                      | 16/08/2019                          | Lab Precision: 2.61%, Bias: 1.81%, Expanded Uncertainty: 7.04%, Sampling Immeasurable  |
| SW19             | Nickel (diss.filt)    | >0.1 mg/l   | Monthly          | 3.41                  | ug/l     | TM152                      | 16/08/2019                          | Lab Precision: 2.98%, Bias: 0.19%, Expanded Uncertainty: 6.15%, Sampling Immeasurable  |
| SW19             | Nitrate as N          | >1 mg/l   | Monthly          | <0.0677               | mg/l     | TM184                      | 16/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |
| SW19             | Nitrite as N          | >1 mg/l   | Monthly          | <0.0152               | mg/l     | TM184                      | 16/08/2019                          | Lab Precision: 1.26%, Bias: -0.61%, Expanded Uncertainty: 3.13%, Sampling Immeasurable |
| SW19             | Oxygen, dissolved     | <2 mg/l (1 occasion)<br><5 mg/l (3 consecutive occasions) | Monthly          | 6.35                  | mg/l     | TM187                      | 16/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |
| SW19             | pH                    | 6.8 – 8.5   | Monthly          | 8.22                  | pH Units | TM256                      | 16/08/2019                          | Lab Precision: 0.03%, Bias: 0.1%, Expanded Uncertainty: 0.16%, Sampling Immeasurable   |

| Monitoring Point | Substance / Parameter                 | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|---------------------------------------|---|------------------|-----------------------|------|----------------------------|-------------------------------------|--|
| SW19             | Phosphate (Ortho as PO <sub>4</sub> ) | >1 mg/l   | Monthly          | 0.359                 | mg/l | TM184                      | 16/08/2019                          | Lab Precision: 1.71%, Bias: 3.09%, Expanded Uncertainty: 6.5%, Sampling Immeasurable   |
| SW19             | Sulphate                              | >300 mg/l   | Monthly          | 227                   | mg/l | TM184                      | 16/08/2019                          | Lab Precision: 2.47%, Bias: -0.99%, Expanded Uncertainty: 5.92%, Sampling Immeasurable |
| SW19             | Suspended solids, Total               | >250 mg/l (1 occasion)<br>>100 mg/l (3 consecutive occasions)<br>>60 mg/l (4 consecutive occasions) | Monthly          | 26.5                  | mg/l | TM022                      | 16/08/2019                          | Lab Precision: 1.17%, Bias: -0.95%, Expanded Uncertainty: 3.3%, Sampling Immeasurable  |
| SW19             | Total Aliphatics >C12-C35 (aq)        | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 16/08/2019                          | Lab Precision: 9.53%, Bias: 4.87%, Expanded Uncertainty: 23.92%, Sampling Immeasurable |
| SW19             | Total Aromatics >EC12-EC35 (aq)       | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 16/08/2019                          | Lab Precision: 7.57%, Bias: -9%, Expanded Uncertainty: 24.15%, Sampling Immeasurable   |
| SW19             | Total Oxidised Nitrogen as N          | >2 mg/l   | Monthly          | <0.1                  | mg/l | TM184                      | 16/08/2019                          | Lab Precision: 3.08%, Bias: 3.61%, Expanded Uncertainty: 9.77%, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter    | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|--------------------------|---|------------------|-----------------------|------|----------------------------|-------------------------------------|--|
| SW19             | Zinc (tot.unfilt)        | >1 mg/l   | Monthly          | 8.09                  | ug/l | TM152                      | 16/08/2019                          | Lab Precision: 2.44%, Bias: 2.34%, Expanded Uncertainty: 7.23%, Sampling Immeasurable  |
| SW20             | Ammoniacal Nitrogen as N | >1 mg/l (1 occasion)<br>>0.5 mg/l (4 consecutive occasions) | Monthly          | 0.698                 | mg/l | TM099                      | 16/08/2019                          | Lab Precision: 1.81%, Bias: 0.72%, Expanded Uncertainty: 4.35%, Sampling Immeasurable  |
| SW20             | BOD, unfiltered          | >18 mg/l (1 occasion)<br>>10 mg/l (3 consecutive occasions) | Monthly          | 8.27                  | mg/l | TM045                      | 16/08/2019                          | Lab Precision: 5.92%, Bias: 8.23%, Expanded Uncertainty: 20.06%, Sampling Immeasurable |
| SW20             | Cadmium (tot.unfilt)     | >0.005 mg/l   | Monthly          | <0.5                  | ug/l | TM152                      | 16/08/2019                          | Lab Precision: 2.8%, Bias: -0.29%, Expanded Uncertainty: 5.88%, Sampling Immeasurable  |
| SW20             | Calcium (Tot. Unfilt.)   | >300 mg/l   | Monthly          | 122                   | mg/l | TM152                      | 16/08/2019                          | Lab Precision: 3%, Bias: -0.08%, Expanded Uncertainty: 6.07%, Sampling Immeasurable    |
| SW20             | Chloride                 | >300 mg/l   | Monthly          | 130                   | mg/l | TM184                      | 16/08/2019                          | Lab Precision: 3.62%, Bias: 3.52%, Expanded Uncertainty: 10.77%, Sampling Immeasurable |

| Monitoring Point | Substance / Parameter   | Trigger level                                   | Reference Period | Result <sup>(1)</sup> | Unit  | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|-------------------------|---|------------------|-----------------------|-------|----------------------------|-------------------------------------|--|
| SW20             | Conductivity @ 20 deg.C | >2000 µS/cm                                     | Monthly          | 1.01                  | mS/cm | TM120                      | 16/08/2019                          | Lab Precision: 0.6%, Bias: 3.19%, Expanded Uncertainty: 4.4%, Sampling Immeasurable    |
| SW20             | GRO >C5-C12             | >2 mg/l   | Monthly          | <50                   | ug/l  | TM245                      | 16/08/2019                          | Lab Precision: 12.21%, Bias: 4.78%, Expanded Uncertainty: 29.2%, Sampling Immeasurable |
| SW20             | Lead (diss.filt)        | >0.25 mg/l                                      | Monthly          | <0.2                  | ug/l  | TM152                      | 16/08/2019                          | Lab Precision: 2.61%, Bias: 1.81%, Expanded Uncertainty: 7.04%, Sampling Immeasurable  |
| SW20             | Nickel (diss.filt)      | >0.1 mg/l                                       | Monthly          | 2.56                  | ug/l  | TM152                      | 16/08/2019                          | Lab Precision: 2.98%, Bias: 0.19%, Expanded Uncertainty: 6.15%, Sampling Immeasurable  |
| SW20             | Nitrate as N            | >1 mg/l   | Monthly          | <0.0677               | mg/l  | TM184                      | 16/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |
| SW20             | Nitrite as N            | >1 mg/l   | Monthly          | <0.0152               | mg/l  | TM184                      | 16/08/2019                          | Lab Precision: 1.26%, Bias: -0.61%, Expanded Uncertainty: 3.13%, Sampling Immeasurable |
| SW20             | Oxygen, dissolved       | <2 mg/l (1 occasion)<br><5 mg/l (3 consecutive) | Monthly          | 1.3                   | mg/l  | TM187                      | 16/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter                 | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit     | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|---------------------------------------|---|------------------|-----------------------|----------|----------------------------|-------------------------------------|--|
|                  |                                       | occasions)  |                  |                       |          |                            |                                     |  |
| SW20             | pH                                    | 6.8 – 8.5   | Monthly          | 7.7                   | pH Units | TM256                      | 16/08/2019                          | Lab Precision: 0.03%, Bias: 0.1%,<br>Expanded Uncertainty: 0.16%, Sampling<br>Immeasurable   |
| SW20             | Phosphate (Ortho as PO <sub>4</sub> ) | >1 mg/l   | Monthly          | 0.955                 | mg/l     | TM184                      | 16/08/2019                          | Lab Precision: 1.71%, Bias: 3.09%,<br>Expanded Uncertainty: 6.5%, Sampling<br>Immeasurable   |
| SW20             | Sulphate                              | >300 mg/l   | Monthly          | 164                   | mg/l     | TM184                      | 16/08/2019                          | Lab Precision: 2.47%, Bias: -0.99%,<br>Expanded Uncertainty: 5.92%, Sampling<br>Immeasurable |
| SW20             | Suspended solids, Total               | >250 mg/l (1 occasion)<br>>100 mg/l (3 consecutive occasions)<br>>60 mg/l (4 consecutive occasions) | Monthly          | 9                     | mg/l     | TM022                      | 16/08/2019                          | Lab Precision: 1.17%, Bias: -0.95%,<br>Expanded Uncertainty: 3.3%, Sampling<br>Immeasurable  |
| SW20             | Total Aliphatics >C12-C35 (aq)        | >2 mg/l   | Monthly          | <10                   | ug/l     | TM174                      | 16/08/2019                          | Lab Precision: 9.53%, Bias: 4.87%,<br>Expanded Uncertainty: 23.92%, Sampling<br>Immeasurable |

| Monitoring Point | Substance / Parameter           | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|---------------------------------|---|------------------|-----------------------|------|----------------------------|-------------------------------------|--|
| SW20             | Total Aromatics >EC12-EC35 (aq) | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 16/08/2019                          | Lab Precision: 7.57%, Bias: -9%, Expanded Uncertainty: 24.15%, Sampling Immeasurable   |
| SW20             | Total Oxidised Nitrogen as N    | >2 mg/l   | Monthly          | <0.1                  | mg/l | TM184                      | 16/08/2019                          | Lab Precision: 3.08%, Bias: 3.61%, Expanded Uncertainty: 9.77%, Sampling Immeasurable  |
| SW20             | Zinc (tot.unfilt)               | >1 mg/l   | Monthly          | 24.4                  | ug/l | TM152                      | 16/08/2019                          | Lab Precision: 2.44%, Bias: 2.34%, Expanded Uncertainty: 7.23%, Sampling Immeasurable  |
| SW21             | Ammoniacal Nitrogen as N        | >1 mg/l (1 occasion)<br>>0.5 mg/l (4 consecutive occasions) | Monthly          | 0.702                 | mg/l | TM099                      | 15/08/2019                          | Lab Precision: 1.81%, Bias: 0.72%, Expanded Uncertainty: 4.35%, Sampling Immeasurable  |
| SW21             | BOD, unfiltered                 | >18 mg/l (1 occasion)<br>>10 mg/l (3 consecutive occasions) | Monthly          | 3.75                  | mg/l | TM045                      | 15/08/2019                          | Lab Precision: 5.92%, Bias: 8.23%, Expanded Uncertainty: 20.06%, Sampling Immeasurable |
| SW21             | Cadmium (tot.unfilt)            | >0.005 mg/l   | Monthly          | <0.5                  | ug/l | TM152                      | 15/08/2019                          | Lab Precision: 2.8%, Bias: -0.29%, Expanded Uncertainty: 5.88%, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter   | Trigger level | Reference Period | Result <sup>(1)</sup> | Unit  | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|-------------------------|---------------|------------------|-----------------------|-------|----------------------------|-------------------------------------|--|
| SW21             | Calcium (Tot. Unfilt.)  | >300 mg/l     | Monthly          | 93.1                  | mg/l  | TM152                      | 15/08/2019                          | Lab Precision: 3%, Bias: -0.08%, Expanded Uncertainty: 6.07%, Sampling Immeasurable    |
| SW21             | Chloride                | >300 mg/l     | Monthly          | 88.5                  | mg/l  | TM184                      | 15/08/2019                          | Lab Precision: 3.62%, Bias: 3.52%, Expanded Uncertainty: 10.77%, Sampling Immeasurable |
| SW21             | Conductivity @ 20 deg.C | >2000 µS/cm   | Monthly          | 0.72                  | mS/cm | TM120                      | 15/08/2019                          | Lab Precision: 0.6%, Bias: 3.19%, Expanded Uncertainty: 4.4%, Sampling Immeasurable    |
| SW21             | GRO >C5-C12             | >2 mg/l       | Monthly          | <50                   | ug/l  | TM245                      | 15/08/2019                          | Lab Precision: 12.21%, Bias: 4.78%, Expanded Uncertainty: 29.2%, Sampling Immeasurable |
| SW21             | Lead (diss.filt)        | >0.25 mg/l    | Monthly          | <0.2                  | ug/l  | TM152                      | 15/08/2019                          | Lab Precision: 2.61%, Bias: 1.81%, Expanded Uncertainty: 7.04%, Sampling Immeasurable  |
| SW21             | Nickel (diss.filt)      | >0.1 mg/l     | Monthly          | 1.87                  | ug/l  | TM152                      | 15/08/2019                          | Lab Precision: 2.98%, Bias: 0.19%, Expanded Uncertainty: 6.15%, Sampling Immeasurable  |
| SW21             | Nitrate as N            | >1 mg/l       | Monthly          | <0.0677               | mg/l  | TM184                      | 15/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter                 | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit     | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|---------------------------------------|---|------------------|-----------------------|----------|----------------------------|-------------------------------------|--|
| SW21             | Nitrite as N                          | >1 mg/l   | Monthly          | <0.0152               | mg/l     | TM184                      | 15/08/2019                          | Lab Precision: 1.26%, Bias: -0.61%, Expanded Uncertainty: 3.13%, Sampling Immeasurable |
| SW21             | Oxygen, dissolved                     | <2 mg/l (1 occasion)<br><5 mg/l (3 consecutive occasions)   | Monthly          | 1.01                  | mg/l     | TM187                      | 15/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |
| SW21             | pH                                    | 6.8 – 8.5   | Monthly          | 8.04                  | pH Units | TM256                      | 15/08/2019                          | Lab Precision: 0.03%, Bias: 0.1%, Expanded Uncertainty: 0.16%, Sampling Immeasurable   |
| SW21             | Phosphate (Ortho as PO <sub>4</sub> ) | >1 mg/l   | Monthly          | 0.984                 | mg/l     | TM184                      | 15/08/2019                          | Lab Precision: 1.71%, Bias: 3.09%, Expanded Uncertainty: 6.5%, Sampling Immeasurable   |
| SW21             | Sulphate                              | >300 mg/l   | Monthly          | 80.5                  | mg/l     | TM184                      | 15/08/2019                          | Lab Precision: 2.47%, Bias: -0.99%, Expanded Uncertainty: 5.92%, Sampling Immeasurable |
| SW21             | Suspended solids, Total               | >250 mg/l (1 occasion)<br>>100 mg/l (3 consecutive occasions)<br>>60 mg/l (4 consecutive occasions) | Monthly          | 10                    | mg/l     | TM022                      | 15/08/2019                          | Lab Precision: 1.17%, Bias: -0.95%, Expanded Uncertainty: 3.3%, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter           | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|---------------------------------|---|------------------|-----------------------|------|----------------------------|-------------------------------------|--|
| SW21             | Total Aliphatics >C12-C35 (aq)  | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 15/08/2019                          | Lab Precision: 9.53%, Bias: 4.87%, Expanded Uncertainty: 23.92%, Sampling Immeasurable |
| SW21             | Total Aromatics >EC12-EC35 (aq) | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 15/08/2019                          | Lab Precision: 7.57%, Bias: -9%, Expanded Uncertainty: 24.15%, Sampling Immeasurable   |
| SW21             | Total Oxidised Nitrogen as N    | >2 mg/l   | Monthly          | <0.1                  | mg/l | TM184                      | 15/08/2019                          | Lab Precision: 3.08%, Bias: 3.61%, Expanded Uncertainty: 9.77%, Sampling Immeasurable  |
| SW21             | Zinc (tot.unfilt)               | >1 mg/l   | Monthly          | 7.66                  | ug/l | TM152                      | 15/08/2019                          | Lab Precision: 2.44%, Bias: 2.34%, Expanded Uncertainty: 7.23%, Sampling Immeasurable  |
| SW22             | Ammoniacal Nitrogen as N        | >1 mg/l (1 occasion)<br>>0.5 mg/l (4 consecutive occasions) | Monthly          | <0.2                  | mg/l | TM099                      | 16/08/2019                          | Lab Precision: 1.81%, Bias: 0.72%, Expanded Uncertainty: 4.35%, Sampling Immeasurable  |
| SW22             | BOD, unfiltered                 | >18 mg/l (1 occasion)<br>>10 mg/l (3 consecutive occasions) | Monthly          | 4.69                  | mg/l | TM045                      | 16/08/2019                          | Lab Precision: 5.92%, Bias: 8.23%, Expanded Uncertainty: 20.06%, Sampling Immeasurable |

| Monitoring Point | Substance / Parameter   | Trigger level | Reference Period | Result <sup>(1)</sup> | Unit  | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|-------------------------|---------------|------------------|-----------------------|-------|----------------------------|-------------------------------------|--|
| SW22             | Cadmium (tot.unfilt)    | >0.005 mg/l   | Monthly          | <0.5                  | ug/l  | TM152                      | 16/08/2019                          | Lab Precision: 2.8%, Bias: -0.29%, Expanded Uncertainty: 5.88%, Sampling Immeasurable  |
| SW22             | Calcium (Tot. Unfilt.)  | >300 mg/l     | Monthly          | 66.7                  | mg/l  | TM152                      | 16/08/2019                          | Lab Precision: 3%, Bias: -0.08%, Expanded Uncertainty: 6.07%, Sampling Immeasurable    |
| SW22             | Chloride                | >300 mg/l     | Monthly          | 40.1                  | mg/l  | TM184                      | 16/08/2019                          | Lab Precision: 3.62%, Bias: 3.52%, Expanded Uncertainty: 10.77%, Sampling Immeasurable |
| SW22             | Conductivity @ 20 deg.C | >2000 µS/cm   | Monthly          | 0.455                 | mS/cm | TM120                      | 16/08/2019                          | Lab Precision: 0.6%, Bias: 3.19%, Expanded Uncertainty: 4.4%, Sampling Immeasurable    |
| SW22             | GRO >C5-C12             | >2 mg/l       | Monthly          | <50                   | ug/l  | TM245                      | 16/08/2019                          | Lab Precision: 12.21%, Bias: 4.78%, Expanded Uncertainty: 29.2%, Sampling Immeasurable |
| SW22             | Lead (diss.filt)        | >0.25 mg/l    | Monthly          | <0.2                  | ug/l  | TM152                      | 16/08/2019                          | Lab Precision: 2.61%, Bias: 1.81%, Expanded Uncertainty: 7.04%, Sampling Immeasurable  |
| SW22             | Nickel (diss.filt)      | >0.1 mg/l     | Monthly          | 1.21                  | ug/l  | TM152                      | 16/08/2019                          | Lab Precision: 2.98%, Bias: 0.19%, Expanded Uncertainty: 6.15%, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter                 | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit     | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|---------------------------------------|---|------------------|-----------------------|----------|----------------------------|-------------------------------------|--|
| SW22             | Nitrate as N                          | >1 mg/l   | Monthly          | <0.0677               | mg/l     | TM184                      | 16/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |
| SW22             | Nitrite as N                          | >1 mg/l   | Monthly          | <0.0152               | mg/l     | TM184                      | 16/08/2019                          | Lab Precision: 1.26%, Bias: -0.61%, Expanded Uncertainty: 3.13%, Sampling Immeasurable |
| SW22             | Oxygen, dissolved                     | <2 mg/l (1 occasion)<br><5 mg/l (3 consecutive occasions) | Monthly          | 2.24                  | mg/l     | TM187                      | 16/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |
| SW22             | pH                                    | 6.8 – 8.5   | Monthly          | 8.13                  | pH Units | TM256                      | 16/08/2019                          | Lab Precision: 0.03%, Bias: 0.1%, Expanded Uncertainty: 0.16%, Sampling Immeasurable   |
| SW22             | Phosphate (Ortho as PO <sub>4</sub> ) | >1 mg/l   | Monthly          | 0.66                  | mg/l     | TM184                      | 16/08/2019                          | Lab Precision: 1.71%, Bias: 3.09%, Expanded Uncertainty: 6.5%, Sampling Immeasurable   |
| SW22             | Sulphate                              | >300 mg/l   | Monthly          | 35.6                  | mg/l     | TM184                      | 16/08/2019                          | Lab Precision: 2.47%, Bias: -0.99%, Expanded Uncertainty: 5.92%, Sampling Immeasurable |

| Monitoring Point | Substance / Parameter           | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>  |
|------------------|---------------------------------|---|------------------|-----------------------|------|----------------------------|-------------------------------------|---|
| SW22             | Suspended solids, Total         | >250 mg/l (1 occasion)<br>>100 mg/l (3 consecutive occasions)<br>>60 mg/l (4 consecutive occasions) | Monthly          | 10.5                  | mg/l | TM022                      | 16/08/2019                          | Lab Precision: 1.17%, Bias: -0.95%,<br>Expanded Uncertainty: 3.3%, Sampling Immeasurable  |
| SW22             | Total Aliphatics >C12-C35 (aq)  | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 16/08/2019                          | Lab Precision: 9.53%, Bias: 4.87%,<br>Expanded Uncertainty: 23.92%, Sampling Immeasurable |
| SW22             | Total Aromatics >EC12-EC35 (aq) | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 16/08/2019                          | Lab Precision: 7.57%, Bias: -9%,<br>Expanded Uncertainty: 24.15%, Sampling Immeasurable   |
| SW22             | Total Oxidised Nitrogen as N    | >2 mg/l   | Monthly          | <0.1                  | mg/l | TM184                      | 16/08/2019                          | Lab Precision: 3.08%, Bias: 3.61%,<br>Expanded Uncertainty: 9.77%, Sampling Immeasurable  |
| SW22             | Zinc (tot.unfilt)               | >1 mg/l   | Monthly          | 12.3                  | ug/l | TM152                      | 16/08/2019                          | Lab Precision: 2.44%, Bias: 2.34%,<br>Expanded Uncertainty: 7.23%, Sampling Immeasurable  |
| SW23             | Ammoniacal Nitrogen as N        | >1 mg/l (1 occasion)<br>>0.5 mg/l (4 consecutive occasions)   | Monthly          | 0.23                  | mg/l | TM099                      | 15/08/2019                          | Lab Precision: 1.81%, Bias: 0.72%,<br>Expanded Uncertainty: 4.35%, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter   | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit  | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>  |
|------------------|-------------------------|---|------------------|-----------------------|-------|----------------------------|-------------------------------------|---|
| SW23             | BOD, unfiltered         | >18 mg/l (1 occasion)<br>>10 mg/l (3 consecutive occasions) | Monthly          | 8.34                  | mg/l  | TM045                      | 15/08/2019                          | Lab Precision: 5.92%, Bias: 8.23%,<br>Expanded Uncertainty: 20.06%, Sampling Immeasurable |
| SW23             | Cadmium (tot.unfilt)    | >0.005 mg/l   | Monthly          | <0.5                  | ug/l  | TM152                      | 15/08/2019                          | Lab Precision: 2.8%, Bias: -0.29%,<br>Expanded Uncertainty: 5.88%, Sampling Immeasurable  |
| SW23             | Calcium (Tot. Unfilt.)  | >300 mg/l   | Monthly          | 84                    | mg/l  | TM152                      | 15/08/2019                          | Lab Precision: 3%, Bias: -0.08%,<br>Expanded Uncertainty: 6.07%, Sampling Immeasurable    |
| SW23             | Chloride                | >300 mg/l   | Monthly          | 53.3                  | mg/l  | TM184                      | 15/08/2019                          | Lab Precision: 3.62%, Bias: 3.52%,<br>Expanded Uncertainty: 10.77%, Sampling Immeasurable |
| SW23             | Conductivity @ 20 deg.C | >2000 µS/cm   | Monthly          | 0.548                 | mS/cm | TM120                      | 15/08/2019                          | Lab Precision: 0.6%, Bias: 3.19%,<br>Expanded Uncertainty: 4.4%, Sampling Immeasurable    |
| SW23             | GRO >C5-C12             | >2 mg/l   | Monthly          | <50                   | ug/l  | TM245                      | 15/08/2019                          | Lab Precision: 12.21%, Bias: 4.78%,<br>Expanded Uncertainty: 29.2%, Sampling Immeasurable |

| Monitoring Point | Substance / Parameter | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit     | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|-----------------------|---|------------------|-----------------------|----------|----------------------------|-------------------------------------|--|
| SW23             | Lead (diss.filt)      | >0.25 mg/l  | Monthly          | 0.212                 | ug/l     | TM152                      | 15/08/2019                          | Lab Precision: 2.61%, Bias: 1.81%, Expanded Uncertainty: 7.04%, Sampling Immeasurable  |
| SW23             | Nickel (diss.filt)    | >0.1 mg/l   | Monthly          | 1.55                  | ug/l     | TM152                      | 15/08/2019                          | Lab Precision: 2.98%, Bias: 0.19%, Expanded Uncertainty: 6.15%, Sampling Immeasurable  |
| SW23             | Nitrate as N          | >1 mg/l   | Monthly          | <0.0677               | mg/l     | TM184                      | 15/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |
| SW23             | Nitrite as N          | >1 mg/l   | Monthly          | <0.0152               | mg/l     | TM184                      | 15/08/2019                          | Lab Precision: 1.26%, Bias: -0.61%, Expanded Uncertainty: 3.13%, Sampling Immeasurable |
| SW23             | Oxygen, dissolved     | <2 mg/l (1 occasion)<br><5 mg/l (3 consecutive occasions) | Monthly          | 0.75                  | mg/l     | TM187                      | 15/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |
| SW23             | pH                    | 6.8 – 8.5   | Monthly          | 7.5                   | pH Units | TM256                      | 15/08/2019                          | Lab Precision: 0.03%, Bias: 0.1%, Expanded Uncertainty: 0.16%, Sampling Immeasurable   |

| Monitoring Point | Substance / Parameter                 | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|---------------------------------------|---|------------------|-----------------------|------|----------------------------|-------------------------------------|--|
| SW23             | Phosphate (Ortho as PO <sub>4</sub> ) | >1 mg/l   | Monthly          | 0.699                 | mg/l | TM184                      | 15/08/2019                          | Lab Precision: 1.71%, Bias: 3.09%, Expanded Uncertainty: 6.5%, Sampling Immeasurable   |
| SW23             | Sulphate                              | >300 mg/l   | Monthly          | 37.1                  | mg/l | TM184                      | 15/08/2019                          | Lab Precision: 2.47%, Bias: -0.99%, Expanded Uncertainty: 5.92%, Sampling Immeasurable |
| SW23             | Suspended solids, Total               | >250 mg/l (1 occasion)<br>>100 mg/l (3 consecutive occasions)<br>>60 mg/l (4 consecutive occasions) | Monthly          | 11                    | mg/l | TM022                      | 15/08/2019                          | Lab Precision: 1.17%, Bias: -0.95%, Expanded Uncertainty: 3.3%, Sampling Immeasurable  |
| SW23             | Total Aliphatics >C12-C35 (aq)        | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 15/08/2019                          | Lab Precision: 9.53%, Bias: 4.87%, Expanded Uncertainty: 23.92%, Sampling Immeasurable |
| SW23             | Total Aromatics >EC12-EC35 (aq)       | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 15/08/2019                          | Lab Precision: 7.57%, Bias: -9%, Expanded Uncertainty: 24.15%, Sampling Immeasurable   |
| SW23             | Total Oxidised Nitrogen as N          | >2 mg/l   | Monthly          | <0.1                  | mg/l | TM184                      | 15/08/2019                          | Lab Precision: 3.08%, Bias: 3.61%, Expanded Uncertainty: 9.77%, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter    | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|--------------------------|---|------------------|-----------------------|------|----------------------------|-------------------------------------|--|
| SW23             | Zinc (tot.unfilt)        | >1 mg/l   | Monthly          | 39.1                  | ug/l | TM152                      | 15/08/2019                          | Lab Precision: 2.44%, Bias: 2.34%, Expanded Uncertainty: 7.23%, Sampling Immeasurable  |
| SW24             | Ammoniacal Nitrogen as N | >1 mg/l (1 occasion)<br>>0.5 mg/l (4 consecutive occasions) | Monthly          | 0.673                 | mg/l | TM099                      | 16/08/2019                          | Lab Precision: 1.81%, Bias: 0.72%, Expanded Uncertainty: 4.35%, Sampling Immeasurable  |
| SW24             | BOD, unfiltered          | >18 mg/l (1 occasion)<br>>10 mg/l (3 consecutive occasions) | Monthly          | 2.32                  | mg/l | TM045                      | 16/08/2019                          | Lab Precision: 5.92%, Bias: 8.23%, Expanded Uncertainty: 20.06%, Sampling Immeasurable |
| SW24             | Cadmium (tot.unfilt)     | >0.005 mg/l   | Monthly          | <0.5                  | ug/l | TM152                      | 16/08/2019                          | Lab Precision: 2.8%, Bias: -0.29%, Expanded Uncertainty: 5.88%, Sampling Immeasurable  |
| SW24             | Calcium (Tot. Unfilt.)   | >300 mg/l   | Monthly          | 132                   | mg/l | TM152                      | 16/08/2019                          | Lab Precision: 3%, Bias: -0.08%, Expanded Uncertainty: 6.07%, Sampling Immeasurable    |
| SW24             | Chloride                 | >300 mg/l   | Monthly          | 138                   | mg/l | TM184                      | 16/08/2019                          | Lab Precision: 3.62%, Bias: 3.52%, Expanded Uncertainty: 10.77%, Sampling Immeasurable |

| Monitoring Point | Substance / Parameter   | Trigger level                                   | Reference Period | Result <sup>(1)</sup> | Unit  | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|-------------------------|---|------------------|-----------------------|-------|----------------------------|-------------------------------------|--|
| SW24             | Conductivity @ 20 deg.C | >2000 µS/cm                                     | Monthly          | 1.01                  | mS/cm | TM120                      | 16/08/2019                          | Lab Precision: 0.6%, Bias: 3.19%, Expanded Uncertainty: 4.4%, Sampling Immeasurable    |
| SW24             | GRO >C5-C12             | >2 mg/l   | Monthly          | <50                   | ug/l  | TM245                      | 16/08/2019                          | Lab Precision: 12.21%, Bias: 4.78%, Expanded Uncertainty: 29.2%, Sampling Immeasurable |
| SW24             | Lead (diss.filt)        | >0.25 mg/l                                      | Monthly          | <0.2                  | ug/l  | TM152                      | 16/08/2019                          | Lab Precision: 2.61%, Bias: 1.81%, Expanded Uncertainty: 7.04%, Sampling Immeasurable  |
| SW24             | Nickel (diss.filt)      | >0.1 mg/l                                       | Monthly          | 2.26                  | ug/l  | TM152                      | 16/08/2019                          | Lab Precision: 2.98%, Bias: 0.19%, Expanded Uncertainty: 6.15%, Sampling Immeasurable  |
| SW24             | Nitrate as N            | >1 mg/l   | Monthly          | <0.0677               | mg/l  | TM184                      | 16/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |
| SW24             | Nitrite as N            | >1 mg/l   | Monthly          | <0.0152               | mg/l  | TM184                      | 16/08/2019                          | Lab Precision: 1.26%, Bias: -0.61%, Expanded Uncertainty: 3.13%, Sampling Immeasurable |
| SW24             | Oxygen, dissolved       | <2 mg/l (1 occasion)<br><5 mg/l (3 consecutive) | Monthly          | 1.08                  | mg/l  | TM187                      | 16/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter                 | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit     | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|---------------------------------------|---|------------------|-----------------------|----------|----------------------------|-------------------------------------|--|
|                  |                                       | occasions)  |                  |                       |          |                            |                                     |  |
| SW24             | pH                                    | 6.8 – 8.5   | Monthly          | 7.61                  | pH Units | TM256                      | 16/08/2019                          | Lab Precision: 0.03%, Bias: 0.1%,<br>Expanded Uncertainty: 0.16%, Sampling<br>Immeasurable   |
| SW24             | Phosphate (Ortho as PO <sub>4</sub> ) | >1 mg/l   | Monthly          | 1.65                  | mg/l     | TM184                      | 16/08/2019                          | Lab Precision: 1.71%, Bias: 3.09%,<br>Expanded Uncertainty: 6.5%, Sampling<br>Immeasurable   |
| SW24             | Sulphate                              | >300 mg/l   | Monthly          | 157                   | mg/l     | TM184                      | 16/08/2019                          | Lab Precision: 2.47%, Bias: -0.99%,<br>Expanded Uncertainty: 5.92%, Sampling<br>Immeasurable |
| SW24             | Suspended solids, Total               | >250 mg/l (1 occasion)<br>>100 mg/l (3 consecutive occasions)<br>>60 mg/l (4 consecutive occasions) | Monthly          | 4.5                   | mg/l     | TM022                      | 16/08/2019                          | Lab Precision: 1.17%, Bias: -0.95%,<br>Expanded Uncertainty: 3.3%, Sampling<br>Immeasurable  |
| SW24             | Total Aliphatics >C12-C35 (aq)        | >2 mg/l   | Monthly          | <10                   | ug/l     | TM174                      | 16/08/2019                          | Lab Precision: 9.53%, Bias: 4.87%,<br>Expanded Uncertainty: 23.92%, Sampling<br>Immeasurable |

| Monitoring Point | Substance / Parameter           | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|---------------------------------|---|------------------|-----------------------|------|----------------------------|-------------------------------------|--|
| SW24             | Total Aromatics >EC12-EC35 (aq) | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 16/08/2019                          | Lab Precision: 7.57%, Bias: -9%, Expanded Uncertainty: 24.15%, Sampling Immeasurable   |
| SW24             | Total Oxidised Nitrogen as N    | >2 mg/l   | Monthly          | <0.1                  | mg/l | TM184                      | 16/08/2019                          | Lab Precision: 3.08%, Bias: 3.61%, Expanded Uncertainty: 9.77%, Sampling Immeasurable  |
| SW24             | Zinc (tot.unfilt)               | >1 mg/l   | Monthly          | 12.8                  | ug/l | TM152                      | 16/08/2019                          | Lab Precision: 2.44%, Bias: 2.34%, Expanded Uncertainty: 7.23%, Sampling Immeasurable  |
| SW25             | Ammoniacal Nitrogen as N        | >1 mg/l (1 occasion)<br>>0.5 mg/l (4 consecutive occasions) | Monthly          | 1.16                  | mg/l | TM099                      | 15/08/2019                          | Lab Precision: 1.81%, Bias: 0.72%, Expanded Uncertainty: 4.35%, Sampling Immeasurable  |
| SW25             | BOD, unfiltered                 | >18 mg/l (1 occasion)<br>>10 mg/l (3 consecutive occasions) | Monthly          | 5.17                  | mg/l | TM045                      | 15/08/2019                          | Lab Precision: 5.92%, Bias: 8.23%, Expanded Uncertainty: 20.06%, Sampling Immeasurable |
| SW25             | Cadmium (tot.unfilt)            | >0.005 mg/l   | Monthly          | <0.5                  | ug/l | TM152                      | 15/08/2019                          | Lab Precision: 2.8%, Bias: -0.29%, Expanded Uncertainty: 5.88%, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter   | Trigger level | Reference Period | Result <sup>(1)</sup> | Unit  | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|-------------------------|---------------|------------------|-----------------------|-------|----------------------------|-------------------------------------|--|
| SW25             | Calcium (Tot. Unfilt.)  | >300 mg/l     | Monthly          | 89                    | mg/l  | TM152                      | 15/08/2019                          | Lab Precision: 3%, Bias: -0.08%, Expanded Uncertainty: 6.07%, Sampling Immeasurable    |
| SW25             | Chloride                | >300 mg/l     | Monthly          | 101                   | mg/l  | TM184                      | 15/08/2019                          | Lab Precision: 3.62%, Bias: 3.52%, Expanded Uncertainty: 10.77%, Sampling Immeasurable |
| SW25             | Conductivity @ 20 deg.C | >2000 µS/cm   | Monthly          | 0.777                 | mS/cm | TM120                      | 15/08/2019                          | Lab Precision: 0.6%, Bias: 3.19%, Expanded Uncertainty: 4.4%, Sampling Immeasurable    |
| SW25             | GRO >C5-C12             | >2 mg/l       | Monthly          | <50                   | ug/l  | TM245                      | 15/08/2019                          | Lab Precision: 12.21%, Bias: 4.78%, Expanded Uncertainty: 29.2%, Sampling Immeasurable |
| SW25             | Lead (diss.filt)        | >0.25 mg/l    | Monthly          | <0.2                  | ug/l  | TM152                      | 15/08/2019                          | Lab Precision: 2.61%, Bias: 1.81%, Expanded Uncertainty: 7.04%, Sampling Immeasurable  |
| SW25             | Nickel (diss.filt)      | >0.1 mg/l     | Monthly          | 2.41                  | ug/l  | TM152                      | 15/08/2019                          | Lab Precision: 2.98%, Bias: 0.19%, Expanded Uncertainty: 6.15%, Sampling Immeasurable  |
| SW25             | Nitrate as N            | >1 mg/l       | Monthly          | <0.0677               | mg/l  | TM184                      | 15/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter                 | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit     | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|---------------------------------------|---|------------------|-----------------------|----------|----------------------------|-------------------------------------|--|
| SW25             | Nitrite as N                          | >1 mg/l   | Monthly          | <0.0152               | mg/l     | TM184                      | 15/08/2019                          | Lab Precision: 1.26%, Bias: -0.61%, Expanded Uncertainty: 3.13%, Sampling Immeasurable |
| SW25             | Oxygen, dissolved                     | <2 mg/l (1 occasion)<br><5 mg/l (3 consecutive occasions)   | Monthly          | 0.95                  | mg/l     | TM187                      | 15/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |
| SW25             | pH                                    | 6.8 – 8.5   | Monthly          | 7.54                  | pH Units | TM256                      | 15/08/2019                          | Lab Precision: 0.03%, Bias: 0.1%, Expanded Uncertainty: 0.16%, Sampling Immeasurable   |
| SW25             | Phosphate (Ortho as PO <sub>4</sub> ) | >1 mg/l   | Monthly          | 0.65                  | mg/l     | TM184                      | 15/08/2019                          | Lab Precision: 1.71%, Bias: 3.09%, Expanded Uncertainty: 6.5%, Sampling Immeasurable   |
| SW25             | Sulphate                              | >300 mg/l   | Monthly          | 89.1                  | mg/l     | TM184                      | 15/08/2019                          | Lab Precision: 2.47%, Bias: -0.99%, Expanded Uncertainty: 5.92%, Sampling Immeasurable |
| SW25             | Suspended solids, Total               | >250 mg/l (1 occasion)<br>>100 mg/l (3 consecutive occasions)<br>>60 mg/l (4 consecutive occasions) | Monthly          | 16                    | mg/l     | TM022                      | 15/08/2019                          | Lab Precision: 1.17%, Bias: -0.95%, Expanded Uncertainty: 3.3%, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter           | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|---------------------------------|---|------------------|-----------------------|------|----------------------------|-------------------------------------|--|
| SW25             | Total Aliphatics >C12-C35 (aq)  | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 15/08/2019                          | Lab Precision: 9.53%, Bias: 4.87%, Expanded Uncertainty: 23.92%, Sampling Immeasurable |
| SW25             | Total Aromatics >EC12-EC35 (aq) | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 15/08/2019                          | Lab Precision: 7.57%, Bias: -9%, Expanded Uncertainty: 24.15%, Sampling Immeasurable   |
| SW25             | Total Oxidised Nitrogen as N    | >2 mg/l   | Monthly          | <0.1                  | mg/l | TM184                      | 15/08/2019                          | Lab Precision: 3.08%, Bias: 3.61%, Expanded Uncertainty: 9.77%, Sampling Immeasurable  |
| SW25             | Zinc (tot.unfilt)               | >1 mg/l   | Monthly          | 5.75                  | ug/l | TM152                      | 15/08/2019                          | Lab Precision: 2.44%, Bias: 2.34%, Expanded Uncertainty: 7.23%, Sampling Immeasurable  |
| SW26             | Ammoniacal Nitrogen as N        | >1 mg/l (1 occasion)<br>>0.5 mg/l (4 consecutive occasions) | Monthly          | 0.225                 | mg/l | TM099                      | 15/08/2019                          | Lab Precision: 1.81%, Bias: 0.72%, Expanded Uncertainty: 4.35%, Sampling Immeasurable  |
| SW26             | BOD, unfiltered                 | >18 mg/l (1 occasion)<br>>10 mg/l (3 consecutive occasions) | Monthly          | 5.56                  | mg/l | TM045                      | 15/08/2019                          | Lab Precision: 5.92%, Bias: 8.23%, Expanded Uncertainty: 20.06%, Sampling Immeasurable |

| Monitoring Point | Substance / Parameter   | Trigger level | Reference Period | Result <sup>(1)</sup> | Unit  | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|-------------------------|---------------|------------------|-----------------------|-------|----------------------------|-------------------------------------|--|
| SW26             | Cadmium (tot.unfilt)    | >0.005 mg/l   | Monthly          | <0.5                  | ug/l  | TM152                      | 15/08/2019                          | Lab Precision: 2.8%, Bias: -0.29%, Expanded Uncertainty: 5.88%, Sampling Immeasurable  |
| SW26             | Calcium (Tot. Unfilt.)  | >300 mg/l     | Monthly          | 72.2                  | mg/l  | TM152                      | 15/08/2019                          | Lab Precision: 3%, Bias: -0.08%, Expanded Uncertainty: 6.07%, Sampling Immeasurable    |
| SW26             | Chloride                | >300 mg/l     | Monthly          | 59.5                  | mg/l  | TM184                      | 15/08/2019                          | Lab Precision: 3.62%, Bias: 3.52%, Expanded Uncertainty: 10.77%, Sampling Immeasurable |
| SW26             | Conductivity @ 20 deg.C | >2000 µS/cm   | Monthly          | 0.579                 | mS/cm | TM120                      | 15/08/2019                          | Lab Precision: 0.6%, Bias: 3.19%, Expanded Uncertainty: 4.4%, Sampling Immeasurable    |
| SW26             | GRO >C5-C12             | >2 mg/l       | Monthly          | <50                   | ug/l  | TM245                      | 15/08/2019                          | Lab Precision: 12.21%, Bias: 4.78%, Expanded Uncertainty: 29.2%, Sampling Immeasurable |
| SW26             | Lead (diss.filt)        | >0.25 mg/l    | Monthly          | 0.511                 | ug/l  | TM152                      | 15/08/2019                          | Lab Precision: 2.61%, Bias: 1.81%, Expanded Uncertainty: 7.04%, Sampling Immeasurable  |
| SW26             | Nickel (diss.filt)      | >0.1 mg/l     | Monthly          | 1.58                  | ug/l  | TM152                      | 15/08/2019                          | Lab Precision: 2.98%, Bias: 0.19%, Expanded Uncertainty: 6.15%, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter                 | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit     | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|---------------------------------------|---|------------------|-----------------------|----------|----------------------------|-------------------------------------|--|
| SW26             | Nitrate as N                          | >1 mg/l   | Monthly          | <0.0677               | mg/l     | TM184                      | 15/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |
| SW26             | Nitrite as N                          | >1 mg/l   | Monthly          | <0.0152               | mg/l     | TM184                      | 15/08/2019                          | Lab Precision: 1.26%, Bias: -0.61%, Expanded Uncertainty: 3.13%, Sampling Immeasurable |
| SW26             | Oxygen, dissolved                     | <2 mg/l (1 occasion)<br><5 mg/l (3 consecutive occasions) | Monthly          | <0.3                  | mg/l     | TM187                      | 15/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |
| SW26             | pH                                    | 6.8 – 8.5   | Monthly          | 7.97                  | pH Units | TM256                      | 15/08/2019                          | Lab Precision: 0.03%, Bias: 0.1%, Expanded Uncertainty: 0.16%, Sampling Immeasurable   |
| SW26             | Phosphate (Ortho as PO <sub>4</sub> ) | >1 mg/l   | Monthly          | 0.712                 | mg/l     | TM184                      | 15/08/2019                          | Lab Precision: 1.71%, Bias: 3.09%, Expanded Uncertainty: 6.5%, Sampling Immeasurable   |
| SW26             | Sulphate                              | >300 mg/l   | Monthly          | 44.7                  | mg/l     | TM184                      | 15/08/2019                          | Lab Precision: 2.47%, Bias: -0.99%, Expanded Uncertainty: 5.92%, Sampling Immeasurable |

| Monitoring Point | Substance / Parameter           | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>  |
|------------------|---------------------------------|---|------------------|-----------------------|------|----------------------------|-------------------------------------|---|
| SW26             | Suspended solids, Total         | >250 mg/l (1 occasion)<br>>100 mg/l (3 consecutive occasions)<br>>60 mg/l (4 consecutive occasions) | Monthly          | 31                    | mg/l | TM022                      | 15/08/2019                          | Lab Precision: 1.17%, Bias: -0.95%,<br>Expanded Uncertainty: 3.3%, Sampling Immeasurable  |
| SW26             | Total Aliphatics >C12-C35 (aq)  | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 15/08/2019                          | Lab Precision: 9.53%, Bias: 4.87%,<br>Expanded Uncertainty: 23.92%, Sampling Immeasurable |
| SW26             | Total Aromatics >EC12-EC35 (aq) | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 15/08/2019                          | Lab Precision: 7.57%, Bias: -9%,<br>Expanded Uncertainty: 24.15%, Sampling Immeasurable   |
| SW26             | Total Oxidised Nitrogen as N    | >2 mg/l   | Monthly          | <0.1                  | mg/l | TM184                      | 15/08/2019                          | Lab Precision: 3.08%, Bias: 3.61%,<br>Expanded Uncertainty: 9.77%, Sampling Immeasurable  |
| SW26             | Zinc (tot.unfilt)               | >1 mg/l   | Monthly          | 23.7                  | ug/l | TM152                      | 15/08/2019                          | Lab Precision: 2.44%, Bias: 2.34%,<br>Expanded Uncertainty: 7.23%, Sampling Immeasurable  |
| SW27             | Ammoniacal Nitrogen as N        | >1 mg/l (1 occasion)<br>>0.5 mg/l (4 consecutive occasions)   | Monthly          | 0.487                 | mg/l | TM099                      | 16/08/2019                          | Lab Precision: 1.81%, Bias: 0.72%,<br>Expanded Uncertainty: 4.35%, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter   | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit  | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>  |
|------------------|-------------------------|---|------------------|-----------------------|-------|----------------------------|-------------------------------------|---|
| SW27             | BOD, unfiltered         | >18 mg/l (1 occasion)<br>>10 mg/l (3 consecutive occasions) | Monthly          | 3.88                  | mg/l  | TM045                      | 16/08/2019                          | Lab Precision: 5.92%, Bias: 8.23%,<br>Expanded Uncertainty: 20.06%, Sampling Immeasurable |
| SW27             | Cadmium (tot.unfilt)    | >0.005 mg/l   | Monthly          | <0.5                  | ug/l  | TM152                      | 16/08/2019                          | Lab Precision: 2.8%, Bias: -0.29%,<br>Expanded Uncertainty: 5.88%, Sampling Immeasurable  |
| SW27             | Calcium (Tot. Unfilt.)  | >300 mg/l   | Monthly          | 62.2                  | mg/l  | TM152                      | 16/08/2019                          | Lab Precision: 3%, Bias: -0.08%,<br>Expanded Uncertainty: 6.07%, Sampling Immeasurable    |
| SW27             | Chloride                | >300 mg/l   | Monthly          | 34.5                  | mg/l  | TM184                      | 16/08/2019                          | Lab Precision: 3.62%, Bias: 3.52%,<br>Expanded Uncertainty: 10.77%, Sampling Immeasurable |
| SW27             | Conductivity @ 20 deg.C | >2000 µS/cm   | Monthly          | 0.421                 | mS/cm | TM120                      | 16/08/2019                          | Lab Precision: 0.6%, Bias: 3.19%,<br>Expanded Uncertainty: 4.4%, Sampling Immeasurable    |
| SW27             | GRO >C5-C12             | >2 mg/l   | Monthly          | <50                   | ug/l  | TM245                      | 16/08/2019                          | Lab Precision: 12.21%, Bias: 4.78%,<br>Expanded Uncertainty: 29.2%, Sampling Immeasurable |

| Monitoring Point | Substance / Parameter | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit     | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|-----------------------|---|------------------|-----------------------|----------|----------------------------|-------------------------------------|--|
| SW27             | Lead (diss.filt)      | >0.25 mg/l  | Monthly          | 0.399                 | ug/l     | TM152                      | 16/08/2019                          | Lab Precision: 2.61%, Bias: 1.81%, Expanded Uncertainty: 7.04%, Sampling Immeasurable  |
| SW27             | Nickel (diss.filt)    | >0.1 mg/l   | Monthly          | 1.56                  | ug/l     | TM152                      | 16/08/2019                          | Lab Precision: 2.98%, Bias: 0.19%, Expanded Uncertainty: 6.15%, Sampling Immeasurable  |
| SW27             | Nitrate as N          | >1 mg/l   | Monthly          | <0.0677               | mg/l     | TM184                      | 16/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |
| SW27             | Nitrite as N          | >1 mg/l   | Monthly          | <0.0152               | mg/l     | TM184                      | 16/08/2019                          | Lab Precision: 1.26%, Bias: -0.61%, Expanded Uncertainty: 3.13%, Sampling Immeasurable |
| SW27             | Oxygen, dissolved     | <2 mg/l (1 occasion)<br><5 mg/l (3 consecutive occasions) | Monthly          | 0.69                  | mg/l     | TM187                      | 16/08/2019                          | Lab Precision: N/A, Sampling Immeasurable  |
| SW27             | pH                    | 6.8 – 8.5   | Monthly          | 7.82                  | pH Units | TM256                      | 16/08/2019                          | Lab Precision: 0.03%, Bias: 0.1%, Expanded Uncertainty: 0.16%, Sampling Immeasurable   |

| Monitoring Point | Substance / Parameter                 | Trigger level   | Reference Period | Result <sup>(1)</sup> | Unit | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>   |
|------------------|---------------------------------------|---|------------------|-----------------------|------|----------------------------|-------------------------------------|--|
| SW27             | Phosphate (Ortho as PO <sub>4</sub> ) | >1 mg/l   | Monthly          | 0.578                 | mg/l | TM184                      | 16/08/2019                          | Lab Precision: 1.71%, Bias: 3.09%, Expanded Uncertainty: 6.5%, Sampling Immeasurable   |
| SW27             | Sulphate                              | >300 mg/l   | Monthly          | 29.2                  | mg/l | TM184                      | 16/08/2019                          | Lab Precision: 2.47%, Bias: -0.99%, Expanded Uncertainty: 5.92%, Sampling Immeasurable |
| SW27             | Suspended solids, Total               | >250 mg/l (1 occasion)<br>>100 mg/l (3 consecutive occasions)<br>>60 mg/l (4 consecutive occasions) | Monthly          | 120                   | mg/l | TM022                      | 16/08/2019                          | Lab Precision: 1.17%, Bias: -0.95%, Expanded Uncertainty: 3.3%, Sampling Immeasurable  |
| SW27             | Total Aliphatics >C12-C35 (aq)        | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 16/08/2019                          | Lab Precision: 9.53%, Bias: 4.87%, Expanded Uncertainty: 23.92%, Sampling Immeasurable |
| SW27             | Total Aromatics >EC12-EC35 (aq)       | >2 mg/l   | Monthly          | <10                   | ug/l | TM174                      | 16/08/2019                          | Lab Precision: 7.57%, Bias: -9%, Expanded Uncertainty: 24.15%, Sampling Immeasurable   |
| SW27             | Total Oxidised Nitrogen as N          | >2 mg/l   | Monthly          | <0.1                  | mg/l | TM184                      | 16/08/2019                          | Lab Precision: 3.08%, Bias: 3.61%, Expanded Uncertainty: 9.77%, Sampling Immeasurable  |

| Monitoring Point | Substance / Parameter | Trigger level | Reference Period | Result <sup>(1)</sup> | Unit | Test Method <sup>(2)</sup> | Sample Date and Time <sup>(3)</sup> | Uncertainty <sup>(4)</sup>  |
|------------------|-----------------------|---------------|------------------|-----------------------|------|----------------------------|-------------------------------------|---|
| SW27             | Zinc (tot.unfilt)     | >1 mg/l       | Monthly          | 48.6                  | ug/l | TM152                      | 16/08/2019                          | Lab Precision: 2.44%, Bias: 2.34%,<br>Expanded Uncertainty: 7.23%, Sampling<br>Immeasurable |

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum - maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.



Signed.....

Date: September 2019

(Authorised to sign as representative of Operator)

Ahlim Hashm on behalf of Neal Soils  
Permit Number EPR/VP3095FS