

Table 2  
Summary of groundwater field parameters - December 2018

| Well ID    | Sampling Event     | Date Measured | SWL (mbTOC) | BOC (mbTOC) | Dissolved Oxygen (ppm) | Electrical Conductivity (us/cm) | pH   | Ox-Red Potential (mV) | Temperature (°C) |
|------------|--------------------|---------------|-------------|-------------|------------------------|---------------------------------|------|-----------------------|------------------|
| SRT_BH047  | Event 4 - Dec 2018 | 18/12/2018    | 3.768       | 6.94        | 4.98                   | 359.7                           | 7.22 | 161.1                 | 20.5             |
| SRT_BH052  | Event 4 - Dec 2018 | 18/12/2018    | 5           | 7.89        | 5.064                  | 270.9                           | 6.17 | 206.1                 | 20.3             |
| SRT_BH059  | Event 4 - Dec 2018 | 17/12/2018    | 2.981       | 6           | 2.86                   | 404.9                           | 7.06 | 178.8                 | 21               |
| SRT_BH063  | Event 4 - Dec 2018 | 17/12/2018    | 10.728      | 14.51       | 2.71                   | 756                             | 6.64 | 129.6                 | 21.8             |
| SRT_CBH015 | Event 4 - Dec 2018 | 17/12/2018    | 3.635       | 5.91        | 0.59                   | 231.2                           | 5.44 | 242.2                 | 20.8             |
| SRT_CBH017 | Event 4 - Dec 2018 | 17/12/2018    | 2.846       | 4.94        | 2.46                   | 146.8                           | 6.01 | 199.1                 | 21.3             |



Table 1  
Summary of groundwater analytical results - December 2018

|  | Iron speciation | Inorganics        | Hardness & Alkalinity           |                                   | Major Ions |           |           |        |          |         | Nutrients    |                | Metals             |                    |                              |                   |                 |                      |                    | BTEXN             |                 |         |         |              |            |                | TRH - NEPM 2013 |                     |                                |                        |                 | NEPM 2013 - SG Cle              |                   |                        |                        |                         |                     |                     |                     |      |      |     |      |      |
|--|-----------------|-------------------|---------------------------------|-----------------------------------|------------|-----------|-----------|--------|----------|---------|--------------|----------------|--------------------|--------------------|------------------------------|-------------------|-----------------|----------------------|--------------------|-------------------|-----------------|---------|---------|--------------|------------|----------------|-----------------|---------------------|--------------------------------|------------------------|-----------------|---------------------------------|-------------------|------------------------|------------------------|-------------------------|---------------------|---------------------|---------------------|------|------|-----|------|------|
|  | Ferrous Iron    | Cyanide (Total)   | Alkalinity (Carbonate as CaCO3) | Alkalinity (Bicarbonate as CaCO3) | Calcium    | Magnesium | Potassium | Sodium | Chloride | Sulfate | Ammonia as N | Nitrate (as N) | Arsenic (Filtered) | Cadmium (Filtered) | Chromium (III+VI) (Filtered) | Copper (Filtered) | Lead (Filtered) | Manganese (Filtered) | Mercury (Filtered) | Nickel (Filtered) | Zinc (Filtered) | Benzene | Toluene | Ethylbenzene | Xylene (o) | Xylene (m & p) | Xylene Total    | Naphthalene (BTEXN) | BTEX (Sum of Total) - Lab Calc | F1 (C6-C10 minus BTEX) | C6-C10 Fraction | F2 (>C10-C16 minus Naphthalene) | >C10-C16 Fraction | F3 (>C16-C34 Fraction) | F4 (>C34-C40 Fraction) | >C10-C40 (Sum of Total) | >C10-C16 SG Cleanup | >C16-C34 SG Cleanup | >C34-C40 SG Cleanup |      |      |     |      |      |
|  | mg/L            | mg/L              | mg/L                            | mg/L                              | mg/L       | mg/L      | mg/L      | mg/L   | mg/L     | mg/L    | mg/L         | mg/L           | mg/L               | mg/L               | mg/L                         | mg/L              | mg/L            | mg/L                 | mg/L               | mg/L              | µg/L            | µg/L    | µg/L    | µg/L         | µg/L       | µg/L           | µg/L            | µg/L                | µg/L                           | µg/L                   | µg/L            | µg/L                            | µg/L              | µg/L                   | µg/L                   | µg/L                    | µg/L                | µg/L                | µg/L                | µg/L | µg/L |     |      |      |
| EQL  | 0.05            | 0.005             | 10                              | 20                                | 0.5        | 0.5       | 0.5       | 0.5    | 1        | 5       | 0.01         | 0.02           | 0.001              | 0.0002             | 0.001                        | 0.001             | 0.001           | 0.001                | 0.001              | 0.001             | 0.001           | 1       | 1       | 1            | 1          | 2              | 3               | 10                  | 1                              | 20                     | 20              | 50                              | 50                | 100                    | 100                    | 100                     | 50                  | 100                 | 100                 |      |      |     |      |      |
| NEPM 2013 Table 1A(4) HSL D Comm/Ind GW for Vapour Intrusion, Sand   |                 |                   |                                 |                                   |            |           |           |        |          |         |              |                |                    |                    |                              |                   |                 |                      |                    |                   |                 |         |         |              |            |                |                 |                     |                                |                        |                 |                                 |                   |                        |                        |                         |                     |                     |                     |      |      |     |      |      |
| 2-4m   |                 |                   |                                 |                                   |            |           |           |        |          |         |              |                |                    |                    |                              |                   |                 |                      |                    |                   | 5000            | NL      | NL      |              |            | NL             | NL              |                     | 6000                           |                        | NL              |                                 |                   |                        |                        |                         |                     |                     |                     |      |      |     |      |      |
| 4-8m   |                 |                   |                                 |                                   |            |           |           |        |          |         |              |                |                    |                    |                              |                   |                 |                      |                    |                   | 5000            | NL      | NL      |              |            | NL             | NL              |                     | 6000                           |                        | NL              |                                 |                   |                        |                        |                         |                     |                     |                     |      |      |     |      |      |
| >8m  |                 |                   |                                 |                                   |            |           |           |        |          |         |              |                |                    |                    |                              |                   |                 |                      |                    |                   | 5000            | NL      | NL      |              |            | NL             | NL              |                     | 7000                           |                        | NL              |                                 |                   |                        |                        |                         |                     |                     |                     |      |      |     |      |      |
| NEPM 2013 Table 1C GILs, Marine Waters                               |                 | 0.004             |                                 |                                   |            |           |           |        |          |         |              |                | 0.0007             | 0.0044             | 0.0013                       | 0.0044            |                 | 0.0001               | 0.007              | 0.015             | 500             |         |         |              |            |                | 50              |                     |                                |                        |                 |                                 |                   |                        |                        |                         |                     |                     |                     |      |      |     |      |      |
| Sydney Water Trade Waste Acceptance Standards 2018-19 (non-domestic) |                 | 1                 |                                 |                                   |            |           |           |        |          |         |              |                | 1                  | 1                  | 3                            | 5                 | 2               | 10                   | 0.03               | 3                 | 5               | 100     | 500     | 1000         |            |                |                 |                     |                                |                        |                 |                                 |                   |                        |                        |                         |                     |                     |                     |      |      |     |      |      |
| Field_ID   | Location_Code   | Sampled_Date_Time | Sample_Type                     |                                   |            |           |           |        |          |         |              |                |                    |                    |                              |                   |                 |                      |                    |                   |                 |         |         |              |            |                |                 |                     |                                |                        |                 |                                 |                   |                        |                        |                         |                     |                     |                     |      |      |     |      |      |
| QA01   | SRT_BH063       | 17/12/2018        | Field_D                         | -                                 | -          | -         | -         | -      | -        | -       | -            | -              | <0.001             | <0.0002            | <0.001                       | 0.002             | 0.003           | -                    | <0.0001            | 0.004             | 0.015           | <1      | <1      | <1           | <1         | <2             | <3              | <10                 | -                              | <20                    | <20             | <50                             | <50               | <100                   | <100                   | <100                    | <100                | <100                | -                   | -    | -    |     |      |      |
| QA02   | SRT_CBH015      | 17/12/2018        | Interlab_D                      | -                                 | -          | -         | -         | -      | -        | -       | -            | -              | <0.001             | 0.0001             | <0.001                       | <0.001            | <0.001          | -                    | <0.0001            | 0.01              | 0.024           | <1      | <2      | <2           | <2         | <2             | <2              | -                   | <1                             | <20                    | <20             | <100                            | <100              | <100                   | <100                   | <100                    | <100                | -                   | -                   | -    |      |     |      |      |
| SRT_BH047  | SRT_BH047       | 18/12/2018        | Normal                          | 0.06                              | <0.005     | <10       | 63        | 35     | 8        | 1.6     | 31           | 33             | 16                 | <0.01              | 22                           | <0.001            | <0.0002         | <0.001               | 0.021              | 0.002             | 0.009           | <0.0001 | 0.004   | 0.031        | <1         | 2              | <1              | <1                  | <2                             | <3                     | <10             | -                               | <20               | <20                    | <50                    | <50                     | <100                | <100                | <100                | <100 | <100 | <50 | <100 | <100 |
| SRT_BH052  | SRT_BH052       | 18/12/2018        | Normal                          | <0.05                             | <0.005     | <10       | 35        | 17     | 4.1      | 1.1     | 38           | 43             | 18                 | <0.01              | 10                           | <0.001            | <0.0002         | <0.001               | 0.018              | 0.001             | 0.02            | <0.0001 | 0.004   | 0.023        | <1         | 2              | <1              | <1                  | <2                             | <3                     | <10             | -                               | <20               | <20                    | <50                    | <50                     | <100                | <100                | <100                | <100 | <100 | <50 | <100 | <100 |
| SRT_BH059  | SRT_BH059       | 17/12/2018        | Normal                          | 0.8                               | <0.005     | <10       | 170       | 70     | 5.7      | 7.6     | 11           | 10             | 24                 | <0.01              | 7.9                          | <0.001            | <0.0002         | <0.001               | 0.056              | 0.003             | <0.005          | <0.0001 | 0.007   | 0.053        | <1         | 2              | <1              | <1                  | <2                             | <3                     | <10             | -                               | <20               | <20                    | <50                    | <50                     | <100                | <100                | <100                | <100 | <100 | <50 | <100 | <100 |
| SRT_BH063  | SRT_BH063       | 17/12/2018        | Normal                          | 0.39                              | <0.005     | <10       | 290       | 58     | 33       | 6.4     | 75           | 76             | 56                 | <0.01              | 0.24                         | <0.001            | <0.0002         | <0.001               | 0.003              | 0.005             | <0.005          | <0.0001 | 0.005   | 0.019        | <1         | <1             | <1              | <1                  | <2                             | <3                     | <10             | -                               | <20               | <20                    | <50                    | <50                     | <100                | <100                | <100                | <100 | <100 | <50 | <100 | <100 |
| SRT_CBH015   | SRT_CBH015      | 17/12/2018        | Normal                          | <0.05                             | <0.005     | <10       | 33        | 3.4    | 5        | 3.6     | 28           | 12             | 52                 | <0.01              | 3.7                          | <0.001            | <0.0002         | <0.001               | 0.019              | 0.002             | 5.4             | <0.0001 | 0.011   | 0.04         | <1         | 2              | <1              | <1                  | <2                             | <3                     | <10             | -                               | <20               | <20                    | <50                    | <50                     | <100                | <100                | <100                | <100 | <100 | <50 | <100 | <100 |
| SRT_CBH017   | SRT_CBH017      | 17/12/2018        | Normal                          | <0.05                             | <0.005     | <10       | 42        | 19     | 9        | 3.2     | 17           | 11             | 17                 | <0.01              | 2.5                          | <0.001            | <0.0002         | <0.001               | 0.003              | <0.001            | 1.8             | <0.0001 | 0.008   | 0.017        | <1         | <1             | <1              | <1                  | <2                             | <3                     | <10             | -                               | <20               | <20                    | <50                    | <50                     | <100                | <100                | <100                | <100 | <100 | <50 | <100 | <100 |







**Table 1**  
Summary of groundwater analytical results - December 2018

|  | Parathion            | Phorate                  | Pirimiphos-methyl  | Pyrazophos | Ronal | Terbufos | Trichloronate | Tetrachlorvinphos | PCBs |      |      |      |      |      |      |      | Herbicides |      |
|--|----------------------|--------------------------|--------------------|------------|-------|----------|---------------|-------------------|------|------|------|------|------|------|------|------|------------|------|
|  |                      |                          |                    |            |       |          |               |                   | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L       | µg/L |
| EQL  | 2                    | 2                        | 20                 | 2          | 2     | 2        | 2             | 2                 | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1          | 100  |
| NEPM 2013 Table 1A(4) HSL D Comm/Ind GW for Vapour Intrusion, Sand   |                      |                          |                    |            |       |          |               |                   |      |      |      |      |      |      |      |      |            |      |
| 2-4m   |                      |                          |                    |            |       |          |               |                   |      |      |      |      |      |      |      |      |            |      |
| 4-8m   |                      |                          |                    |            |       |          |               |                   |      |      |      |      |      |      |      |      |            |      |
| >8m  |                      |                          |                    |            |       |          |               |                   |      |      |      |      |      |      |      |      |            |      |
| NEPM 2013 Table 1C GILs, Marine Waters                               |                      |                          |                    |            |       |          |               |                   |      |      |      |      |      |      |      |      |            |      |
| Sydney Water Trade Waste Acceptance Standards 2018-19 (non-domestic) |                      |                          |                    |            |       |          |               |                   |      |      |      |      |      |      |      |      |            |      |
| <b>Field_ID</b>  | <b>Location_Code</b> | <b>Sampled_Date_Time</b> | <b>Sample_Type</b> |            |       |          |               |                   |      |      |      |      |      |      |      |      |            |      |
| QA01   | SRT_BH063            | 17/12/2018               | Field_D            | -          | -     | -        | -             | -                 | -    | -    | -    | -    | -    | -    | -    | -    | -          | -    |
| QA02   | SRT_CBH015           | 17/12/2018               | Interlab_D         | -          | -     | -        | -             | -                 | -    | -    | -    | -    | -    | -    | -    | -    | -          | -    |
| SRT_BH047  | SRT_BH047            | 18/12/2018               | Normal             | <2         | <2    | <20      | <2            | <2                | <2   | <2   | <2   | <2   | <1   | <1   | <1   | <1   | <1         | <100 |
| SRT_BH052  | SRT_BH052            | 18/12/2018               | Normal             | <2         | <2    | <20      | <2            | <2                | <2   | <2   | <2   | <2   | <1   | <1   | <1   | <1   | <1         | <100 |
| SRT_BH059  | SRT_BH059            | 17/12/2018               | Normal             | <2         | <2    | <20      | <2            | <2                | <2   | <2   | <2   | <2   | <1   | <1   | <1   | <1   | <1         | <100 |
| SRT_BH063  | SRT_BH063            | 17/12/2018               | Normal             | <2         | <2    | <20      | <2            | <2                | <2   | <2   | <2   | <2   | <1   | <1   | <1   | <1   | <1         | <100 |
| SRT_CBH015   | SRT_CBH015           | 17/12/2018               | Normal             | <2         | <2    | <20      | <2            | <2                | <2   | <2   | <2   | <2   | <1   | <1   | <1   | <1   | <1         | <100 |
| SRT_CBH017   | SRT_CBH017           | 17/12/2018               | Normal             | <2         | <2    | <20      | <2            | <2                | <2   | <2   | <2   | <2   | <1   | <1   | <1   | <1   | <1         | <100 |