**Table A-1. Summary of pH and Major Ions.**

| Site Name | pH | Calcium (mg/L) | Magnesium (mg/L) | Potassium (mg/L) | Sodium (mg/L) | Alkalinity (mg/L as $CaCO_3$) | Carbonate (mg/L) | Bicarbonate (mg/L) | Chloride (mg/L) | Sulfate (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| AP-01 | 9.5 | 5.2 | <2 | 9.6 | 92 | 45.1 | 13.9 | 26.6 | 120 | 35 |
| AP-09 | 7.4 | 15 | <2 | <2 | 85 | 210 | --- | 256 | 9.2 | <2 |
| AP-11 | 8.9 | <2 | <2 | <2 | 130 | 243 | 6.7 | 283 | 11 | 14 |
| AP-21 | 10 | 320 | <2 | 32 | 320 | 31.9 | 27.4 | --- | 54 | 1400 |
| AP-22 | 7.6 | 35 | 20 | 2.5 | 37 | 168 | --- | 205 | 18 | 64 |
| AP-26 | 7.3 | 64 | 21 | 4.3 | 110 | 152 | --- | 186 | 170 | 130 |
| AP-27 | 7.5 | 40 | 4.8 | 20 | 620 | 177 | --- | 216 | 750 | 350 |
| AP-29 | 7.4 | 83 | 8.8 | 34 | 770 | 157 | --- | 192 | 1200 | 320 |
| DPW-01 | 7.8 | 25 | 15 | 3.3 | 26 | 160 | --- | 196 | 11 | 7.9 |
| DPW-06 | 7.7 | 65 | 17 | 4.8 | 110 | 174 | --- | 213 | 41 | 260 |
| GI-P1 | 7.6 | 31 | 20 | 2.5 | 22 | 163 | --- | 199 | 17 | 19 |
| GI-P2[a] | 7.7 | 33 | 18 | 2.8 | 24 | 184 | --- | 224 | 13 | 9.9 |

Note: "---" indicates no data available (for Carbonate, "---" indicates that the amount of carbonate was too small to measure); "<" indicates the concentration is less than the value (e.g. <0.5 indicates a concentration of less than 0.5)

[a] GI-P2 replaces AP-05 and DPW-02 which were dry at the time of sampling

**Table A-2. Isotopes and Physical Properties.**

| Site Name | $^{13}C/^{12}C$ (Ratio of Carbon-13 to Carbon-12 in o/oo) | Carbon-14 (Percent Modern Carbon) | Oxygen-18 (Ratio of Oxygen-18 to Oxygen-16 in o/oo) | Deuterium (Ratio of Hydrogen-2 to Hydrogen-1 in o/oo) | $^{87}Sr/^{86}Sr$ (Ratio of Strontium-87 to Strontium-86) | Tritium (TU) | Dissolved Oxygen (mg/L) | Specific Conductance (uS/cm @ 25 °C) | Temperature (°C) |
|---|---|---|---|---|---|---|---|---|---|
| AP-01 | -17.5 | 11.7 | -9.6 | -78 | 0.70716 | <0.7 | 0.3 | 523 | 25.9 |
| AP-09 | -11.1 | 20.7 | -10.8 | -79 | 0.70499 | <0.9 | 0.3 | 421 | 21.8 |
| AP-11 | -10.9 | 24.1 | -9.6 | -72 | 0.70798 | <0.9 | 0.9 | 537 | 29 |
| AP-21 | -22.8 | 23.5 | -10.7 | -80 | 0.70478 | 0.9 | 0.2 | 2700 | 23.1 |
| AP-22 | -9 | 46.6 | -9 | -66 | 0.70895 | <0.6 | 8.6 | 526 | 26.4 |
| AP-26 | -8.8 | 30.8 | -9.9 | -72 | 0.71026 | 1.1 | 3.4 | 1090 | 32.7 |
| AP-27 | -4.8 | 2.4 | -11.3 | -84 | 0.71476 | <1.2 | 0 | 3380 | 35.8 |
| AP-29 | -4.8 | 2.1 | -11.2 | -84 | 0.72228 | <0.7 | 3.2 | 4480 | 32.7 |
| DPW-01 | -11.3 | 42.7 | -9.2 | -68 | 0.71339 | 0.9 | 2.8 | 340 | 29 |
| DPW-06 | -15.2 | 31.8 | -8.3 | -62 | 0.70471 | 0.8 | 0.7 | 1000 | 23.5 |
| GI-P1 | -11.1 | 58.3 | -8.9 | -67 | 0.71079 | 1 | 6.8 | 380 | 30.1 |
| GI-P2[a] | -12.6 | 63.4 | -9.2 | -68 | 0.70888 | <1.1 | 6.8 | 420 | 30.9 |

Note: "---" indicates no data available; "<" indicates the concentration is less than the value (e.g. <0.5 indicates a concentration of less than 0.5)
[a] GI-P2 replaces AP-05 and DPW-02 which were dry at the time of sampling

**Table A-3. Trace Metals (Part One).**

| Site Name | Silver (ug/L) | Aluminum (ug/L) | Arsenic (ug/L) | Barium (ug/L) | Beryllium (ug/L) | Cadmium (ug/L) | Chromium (ug/L) | Copper (ug/L) | Fluoride (mg/L) | Mercury (ug/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| AP-01 | <1 | <200 | 3 | M | <1 | <1 | <10 | M | <0.4 | <0.2 |
| AP-09 | <1 | <200 | <1 | <10 | <1 | <1 | <10 | M | <0.4 | <0.2 |
| AP-11 | <1 | 400 | 12 | <10 | <1 | <1 | <10 | M | 0.66 | <0.2 |
| AP-21 | <1 | <200 | 2 | M | <1 | <1 | 11 | M | <0.4 | <0.2 |
| AP-22 | <1 | <200 | 3 | <10 | <1 | <1 | <10 | <1 | 0.43 | <0.2 |
| AP-26 | <1 | <200 | 4 | M | <1 | <1 | <10 | M | 0.41 | <0.2 |
| AP-27 | <1 | <200 | 22 | M | <1 | <1 | <10 | M | 8.4 | <0.2 |
| AP-29 | <1 | <200 | 22 | M | <1 | <1 | <10 | M | 5.6 | <0.2 |
| DPW-01 | <1 | <200 | 3 | <10 | <1 | <1 | <10 | <1 | 0.55 | <0.2 |
| DPW-06 | <1 | <200 | <1 | M | <1 | <1 | <10 | M | <0.4 | <0.2 |
| GI-P1 | <1 | <200 | 2 | <10 | <1 | <1 | <10 | <1 | <0.4 | <0.2 |
| GI-P2[a] | <1 | <200 | 2 | <10 | <1 | <1 | <10 | <1 | <0.4 | <0.2 |

Note: "---" indicates no data available; "<" indicates the concentration is less than the value (e.g. <0.5 indicates a concentration of less than 0.5); M indicates presence verified but not quantified
[a] GI-P2 replaces AP-05 and DPW-02 which were dry at the time of sampling

**Table A-4. Trace Metals (Part Two).**

| Site Name | Iron (ug/L) | Manganese (ug/L) | Nickel (ug/L) | Lead (ug/L) | Antimony (ug/L) | Selenium (ug/L) | Silica (mg/L) | Thallium (ug/L) | Zinc (ug/L) |
|---|---|---|---|---|---|---|---|---|---|
| AP-01 | <50 | <5 | <10 | M | <3 | <2 | 26 | <1 | <10 |
| AP-09 | 230 | 220 | <10 | <1 | <3 | <2 | 20 | <1 | <10 |
| AP-11 | 390 | 10 | <10 | M | <3 | <2 | 25 | <1 | <10 |
| AP-21 | 680 | <5 | <10 | <1 | <3 | <2 | 32 | <1 | <10 |
| AP-22 | <50 | <5 | <10 | <1 | <3 | <2 | 60 | <1 | <10 |
| AP-26 | <50 | 80 | <10 | <1 | <3 | <2 | 49 | <1 | <10 |
| AP-27 | <50 | 10 | <10 | <1 | <3 | <2 | 50 | <1 | <10 |
| AP-29 | <50 | <5 | <10 | <1 | <3 | <2 | 50 | <1 | <10 |
| DPW-01 | 240 | <5 | <10 | <1 | <3 | <2 | 67 | <1 | <10 |
| DPW-06 | 160 | 10 | <10 | <1 | <3 | <2 | 27 | <1 | <10 |
| GI-P1 | <50 | <5 | <10 | <1 | <3 | <2 | 73 | <1 | <10 |
| GI-P2[a] | <50 | <5 | <10 | <1 | <3 | <2 | 71 | <1 | <10 |

Note: "---" indicates no data available; "<" indicates the concentration is less than the value (e.g. <0.5 indicates a concentration of less than 0.5); M indicates presence verified but not quantified
[a] GI-P2 replaces AP-05 and DPW-02 which were dry at the time of sampling