**TESTING INFORMATION**:

Wynland will inform you when a method proposed by the customer is considered to be inappropriate or out dated.

**Important information:**

* Water, soil and leaf samples – refer to website (www.wynlandlab.co.za) for quantities necessary for analysis.
* Soil and leaf analyses take 3-4 days longer due to sample preparation.
* If tests are outsourced, query the required volume/mass of sample and turnaround time.
* Tests that require certain specifications should be noted and supplied.
* Keep samples cool as possible (4-8oC).

Normal test methods used by Wynland Laboratories unless stipulated otherwise by customer

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Methods** | | | | |
| \*method marked with asterisk - not accredited | | | | |
| **Water** | | | | |
|  | **Analyte** | **Instrument** | **Analysis Time**  **(working days)** | **Method ID** |
|  | pH | pH meter | 1-2 days | EPA 150.1 (C 101) |
|  | EC | Conductivity | 1-2 days | ISO 7888:1985 (C 105) |
|  | COD | COD Reactor | 1-2 days | ISO 15750 (C 108) |
| \* | TDS | Conductivity | 1-2 days | Spectrophotometer reading |
| \* | SS | Gravimetric | 1-2 days | Spectrophotometer reading |
|  | CO3 | Titration | 1-2 days | EP A600 / 4-7 9-020 (C 111) |
|  | HCO3 | Titration | 1-2 days | EP A600 / 4-7 9-020 (C 111) |
|  | Cl- | Spectrophotometer | 3-5 days | EPA 325.1 (C 110) |
|  | F- | Spectrophotometer | 3-5 days | EPA 340.3 (C 107) |
|  | SO42- | Spectrophotometer | 3-5 days | EPA 375.4 (C 103) |
|  | NH4-N | Spectrophotometer | 3-5 days | lSO7150/1 (C 109) |
|  | NH4+ | Spectrophotometer | 3-5 days | lSO7150/1 (C 109) |
|  | NO3-N | Spectrophotometer | 3-5 days | DIN 38405 D9 (C 106) |
| \* | NO2-N | Spectrophotometer | 3-5 days | C121 |
|  | PO4-P | Spectrophotometer | 3-5 days | ISO 6878 (C 104) |
|  | Ca | ICP-AES | 1-3 days | EPA 6010C |
|  | K | ICP-AES | 1-3 days | EPA 6010C |
|  | Mg | ICP-AES | 1-3 days | EPA 6010C |
|  | Na | ICP-AES | 1-3 days | EPA 6010C |
|  | B | ICP-AES | 1-3 days | EPA 6010C |
|  | Cu | ICP-AES | 1-3 days | EPA 6010C |
|  | Fe | ICP-AES | 1-3 days | EPA 6010C |
|  | Mn | ICP-AES | 1-3 days | EPA 6010C |
|  | Zn | ICP-AES | 1-3 days | EPA 6010C |
| \* | Al | ICP-AES | 1-3 days | EPA 6010C |
| \* | As | ICP-AES | 1-3 days | EPA 6010C |
| \* | Cd | ICP-AES | 1-3 days | EPA 6010C |
| \* | Cr | ICP-AES | 1-3 days | EPA 6010C |
| \* | Hg | ICP-AES | 1-3 days | EPA 6010C |
| \* | Ni | ICP-AES | 1-3 days | EPA 6010C |
| \* | Pb | ICP-AES | 1-3 days | EPA 6010C |
| \* | Sb | ICP-AES | 1-3 days | EPA 6010C |
| \* | Se | ICP-AES | 1-3 days | EPA 6010C |
| \* | V | ICP-AES | 1-3 days | EPA 6010C |
| \* | Sn | ICP-AES | 1-3 days | EPA 6010C |
| \* | Co | ICP-AES | 1-3 days | EPA 6010C |
| **Plant** | | | | |
|  | **Analyte** | **Instrument** | **Analysis Time**  **(±3/4 days for drying)** | **Method ID** |
|  | Ca | ICP-AES | 4-6 days | EPA 6010C |
|  | K | ICP-AES | 4-6 days | EPA 6010C |
|  | Mg | ICP-AES | 4-6 days | EPA 6010C |
|  | Na | ICP-AES | 4-6 days | EPA 6010C |
|  | B | ICP-AES | 4-6 days | EPA 6010C |
|  | Cu | ICP-AES | 4-6 days | EPA 6010C |
|  | Fe | ICP-AES | 4-6 days | EPA 6010C |
|  | Mn | ICP-AES | 4-6 days | EPA 6010C |
|  | Zn | ICP-AES | 4-6 days | EPA 6010C |
| \* | P | ICP-AES | 4-6 days | EPA 6010C |
| \* | S | ICP-AES | 4-6 days | EPA 6010C |
| \* | Mo | ICP-AES | 4-6 days | EPA 6010C |
| **Soil** | | | | |
|  | **Analyte** | **Instrument** | **Analysis Time**  **(±3/4 days for drying)** | **Method ID** |
|  | Ca | ICP-AES | 4-7 days | EPA 6010C |
|  | K | ICP-AES | 4-7 days | EPA 6010C |
|  | Mg | ICP-AES | 4-7 days | EPA 6010C |
|  | Na | ICP-AES | 4-7 days | EPA 6010C |
|  | B | ICP-AES | 4-7 days | EPA 6010C |
|  | Cu | ICP-AES | 4-7 days | EPA 6010C |
|  | Fe | ICP-AES | 4-7 days | EPA 6010C |
|  | Mn | ICP-AES | 4-7 days | EPA 6010C |
|  | Zn | ICP-AES | 4-7 days | EPA 6010C |
| \* | P | ICP-AES | 4-7 days | EPA 6010C |
| \* | S | ICP-AES | 4-7 days | EPA 6010C |
|  | pH | pH meter | 4-7 days | C 101.1 |
|  | EC | Conductivity meter | 4-7 days | C 105.2 |
|  | TOC | Titration | 4-7 days | Walkley Black (C 124) |

\*Not SANAS Accredited

Other analytes can also be tested for. Please discuss with Chemistry Team Leader.