**CATIONS( MACROS) WORKSHEET**

**Acceptance criteria:** Check table for limits

Checked by:\_\_\_\_\_\_\_\_\_\_\_\_\_ date: \_\_\_\_\_\_\_\_

Verified by: \_\_\_\_\_\_\_\_\_\_\_\_\_ date: \_\_\_\_\_\_\_\_

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Registration No.** | | ${registration\_no} | **Analyst:** | ${analyst} | | **Page:** | | ${pg} | **Of** | ${pgOf} |
| **Equipment Id:** | Chem 025/026 | | **Pipette Id:** | | ${pipette\_id} | **Date:** | ${date} | | | |

|  |  |  |
| --- | --- | --- |
| **Reagent/consumable used** | **Batch number** | **Expiry date** |
| **ICP Standard Solution** | ${ICP\_Standard\_Solution} | ${ICP\_Standard\_Solution\_exp\_date} |
| **ICP QC** | ${ICP\_QC} | ${ICP\_QC\_exp\_date} |
| **Argon Gas 5.0** | ${Argon\_Gas\_5.0} | ${Argon\_Gas\_5.0\_exp\_date} |
| **De-ionized water** | ${De-ionized\_water} | ${De-ionized\_water\_exp\_date} |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample no.** | **Potassium as K (mg/l)** | | **Calcium as Ca (mg/l)** | | **Magnesium as Mg (mg/l)** | | **Sodium as Na (mg/l** | |
|  | **Dilution** | **Final results** | **Dilution** | **Final results** | **Dilution** | **Final results** | **Dilution** | **Final results** |
| ${sample\_no} | ${K\_QUANT\_766.490\_dil} | ${K\_QUANT\_766.490} | ${Ca\_QUANT\_315.887\_dil} | ${Ca\_QUANT\_315.887} | ${Mg\_QUANT\_383.231\_dil} | ${Mg\_QUANT\_383.231} | ${Na\_QUANT\_330.232\_dil} | ${Na\_QUANT\_330.232} |

|  |  |  |
| --- | --- | --- |
| Standard used(Macros)-  20 mg/l | Criteria | Reading obtained |
| **20mg/l** |  |
| K | 18.19- 21.81 | ${K\_QUANT\_766.490\_std} |
| Ca | 18.36-21.64 | ${Ca\_QUANT\_315.887\_std} |
| Mg | 18.67-21.33 | ${Mg\_QUANT\_383.231\_std} |
| Na | 19.08-20.92 | ${Na\_QUANT\_330.232\_std} |

Accept Reject