**Chemical Oxygen Demand**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Course\_\_\_\_\_\_Section\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_

Mass of ferrous ammonium sulfate (FAS) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Volume of standard FAS \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Molarity of standard FAS \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Standardization of K2Cr2O7**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Aliquot 1 | Aliquot 2 | Aliquot 3 |
| Volume of K2Cr2O7titrated |  |  |  |
| Volume of Fe(NH4)2(SO4)2 used to reach the end-point |  |  |  |
| Molarity of K2Cr2O7 solution |  |  |  |

Average molarity of K2Cr2O7 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unknown Sample**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Aliquot 1 | Aliquot 2 | Aliquot 3 |
| Moles of standard K2Cr2O7 added |  |  |  |
| Volume of Fe(NH4)2(SO4)2 used in titration |  |  |  |
| Moles of K2Cr2O7 consumed |  |  |  |
| Moles of oxygen consumed |  |  |  |
| Chemical oxygen demand of the sample |  |  |  |

Average COD of your sample (include the standard deviation) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_