Lampiran 8 : Standarisasi Larutan KMnO4 dan Hasil Pengujian Nilai Permanganat *Dissolved*

No	Tanggal	N KMnO4
1	2 Mei	0.009291
3	16 Mei	0.009971
4	30 Mei	0.009288
5	9 Agus	0.00917483
6	15 Agus	0.00923353

No	Tanggal Sampling	EFLUEN SUNGAI PROGO					EFLUEN WADUK SERMO					EFLUEN CLERENG				
		Vol A (ml)	A (ppm)	Vol B (ml)	B (ppm)	Rata-rata	Vol A (ml)	A (ppm)	Vol B (ml)	B (ppm)	Rata-rata	Vol A (ml)	A (ppm)	Vol B (ml)	B (ppm)	Rata-Rata
1	2 Mei	1.6	2.458	1.3	1.577	2.018	2.7	5.688	2	3.633	4.661	0.9	0.403	0.8	0.109	0.256
2	9 Mei	2.4	4.807	1.4	1.871	3.339	3	6.569	2.5	5.101	5.835	2.7	5.688	1.5	2.165	3.927
3	16 Mei	0.9	2.744	1.8	5.580	4.162	2.5	7.785	1.1	3.374	5.580	1.4	4.319	0.9	2.744	3.532
4	22 Mei	1.9	5.895	2.5	7.785	6.840	2.3	7.155	2.5	7.785	7.470	0.9	2.744	1.8	5.580	4.162
5	30 Mei	2.8	5.969	1.3	1.566	3.768	2.9	6.262	3.6	8.317	7.290	1.2	1.272	2.9	6.262	3.767
6	7 Agus	1.9	3.327	2.0	3.62	3.474	2.1	3.914	2.2	4.207	4.061	1.8	3.033	1.9	3.027	3.030
7	9 Agus	1.6	2.031	1.7	2.321	2.176	1.7	2.321	2.2	3.771	3.046	1	0.292	1.1	0.582	0.437
8	13 Agus	2	3.191	2.0	3.191	3.191	1.6	2.031	1.6	2.031	2.031	1.2	0.872	1.1	0.582	0.727
9	15 Agus	1.5	1.955	1.7	2.538	2.247	2.7	5.456	2.8	5.748	5.602	1	0.496	1.2	1.079	0.788

Contoh Perhitungan

$$KMnO4\ \left(\frac{mg}{L}\right) = \frac{[(10+a)b - (10\ x\ c)]1\ x\ 31{,}6\ x\ 1000}{d}$$

$$KMnO4\ \left(\frac{mg}{L}\right) = \frac{[(10+1.6)0.009291 - (10\ x\ 0.01)]1\ x\ 31{,}6\ x\ 1000}{100}$$

$$KMnO4\ = 2.457\ mg/L$$

Keterangan :

$a = volume\ titrasi\ KMnO4$
$b = normalitas\ KMnO4\ yang\ sebenarnya$
$c = normalitas\ asam\ oksalat$
$d = volume\ contoh\ uji$