

LAMPIRAN 1

Analisa Logam Cd dalam Sampel *Edible* Ikan Mujair dari Tambak IPLT dan Non IPLT

No.	Sampel	Cd (ppm)	Berat basah (g)	Berat kering (g)	Berat abu (g)	Kandungan Cd (µg/g) dalam		
						sampel basah	sampel kering	sampel abu
1	A1	0.07	35.63884	9.12615	0.42193	0.0196	0.0767	1.659
2	A2	0.03	24.26988	6.26554	0.26703	0.0124	0.0479	1.123
3	A3	0.05	30.41682	8.18234	0.38727	0.0164	0.0611	1.291
4	B1	0.05	32.59693	7.88502	0.37023	0.0153	0.0634	1.351
5	B2	0.03	24.06370	6.06021	0.26355	0.0125	0.0495	1.138
6	B3	0.05	43.48303	9.30944	0.42069	0.0115	0.0537	1.189
7	C1	0.10	21.75173	5.07869	0.30120	0.0460	0.1969	3.320
8	C2	0.05	18.86745	3.80511	0.25061	0.0265	0.1314	1.995
9	C3	0.08	31.61823	7.90612	0.35079	0.0253	0.1012	2.281
10	D1	0.04	25.27867	6.17446	0.30102	0.0158	0.0648	1.329
11	D2	0.05	41.15580	9.88135	0.42785	0.0121	0.0506	1.169
12	D3	0.01	33.40949	7.98406	0.36901	0.0030	0.0125	0.271
Rata-rata						0.0180	0.0758	1.510
STDEV						0.0108	0.0481	0.755

13	NA1	0.01	15.14141	3.49907	0.21932	0.0066	0.0286	0.456
14	NA2	0.03	22.52012	4.97417	0.31495	0.0133	0.0603	0.953
15	NA3	0.04	18.43615	4.32511	0.26408	0.0217	0.0925	1.515
16	NB1	0.01	19.69955	4.49178	0.25408	0.0051	0.0223	0.394
17	NB2	0.04	23.07643	4.92625	0.27603	0.0173	0.0812	1.449
18	NB3	0.02	17.01194	3.70551	0.24225	0.0118	0.0540	0.826
19	NC1	0.03	22.87052	5.51499	0.29156	0.0131	0.0544	1.029
20	NC2	0.03	15.91780	3.49334	0.21224	0.0188	0.0859	1.413
21	NC3	0.02	15.91134	3.64292	0.20950	0.0126	0.0549	0.955
22	ND1	0.01	28.70266	6.43502	0.34398	0.0035	0.0155	0.291
23	ND2	0.07	35.89471	8.42194	0.42727	0.0195	0.0831	1.638
24	ND3	0.03	16.38019	4.03968	0.21274	0.0183	0.0743	1.410
Rata-rata						0.0135	0.0589	1.027
STDEV						0.0060	0.0259	0.468

S1 = 0.06 ppm ; S2 = 0.12 ppm ; S = 0.18 ppm

Keterangan :

Pada pengukuran Cd, larutan sampel tidak diencerkan tetapi larutan standar diencerkan (1/10)

Volume sampel larutan x hasil pengukuran logam dalam ppm atau mg/l

Kandungan logam = $\frac{\text{Volume sampel larutan} \times \text{hasil pengukuran logam dalam ppm atau mg/l}}{\text{Berat sampel (basah/kering/abu) dalam gram}}$

LAMPIRAN 2

Analisa Logam Cu dalam Sampel *Edible* Ikan Mujair dari Tambak IPLT dan Non IPLT

No.	Sampel	Cu (ppm)	Berat basah (g)	Berat kering (g)	Berat abu (g)	Kandungan Cu (µg/g) dalam		
						sampel basah	sampel kering	sampel abu
1	A1	1.20	35.63884	9.12615	0.42193	0.3367	1.3149	28.4407
2	A2	0.50	24.26988	6.26554	0.26703	0.2060	0.798	18.7245
3	A3	1.00	30.41682	8.18234	0.38727	0.3288	1.2221	25.8218
4	B1	1.00	32.59693	7.88502	0.37023	0.3068	1.2682	27.0102
5	B2	0.60	24.06370	6.06021	0.26355	0.2493	0.9901	22.7661
6	B3	1.10	43.48303	9.30944	0.42069	0.2530	1.1816	26.1475
7	C1	1.10	21.75173	5.07869	0.30120	0.5057	2.1659	36.5206
8	C2	0.60	18.86745	3.80511	0.25061	0.3180	1.5768	23.9416
9	C3	1.50	31.61823	7.90612	0.35079	0.4744	1.8973	42.7606
10	D1	0.90	25.27867	6.17446	0.30102	0.3560	1.4576	29.8983
11	D2	0.90	41.15580	9.88135	0.42785	0.2187	0.9108	21.0354
12	D3	0.10	33.40949	7.98406	0.36901	0.0299	0.1252	2.7100
Rata-rata						0.2986	1.2424	25.4814
STDEV						0.1249	0.5282	9.7482

13	NA1	0.50	15.14141	3.49907	0.21932	0.3302	1.4290	22.7977
14	NA2	0.60	22.52012	4.97417	0.31495	0.2664	1.2062	19.0506
15	NA3	0.40	18.43615	4.32511	0.26408	0.2170	0.9248	15.1469
16	NB1	0.50	19.69955	4.49178	0.25408	0.2538	1.1131	19.6788
17	NB2	0.20	23.07643	4.92625	0.27603	0.0867	0.4060	7.2456
18	NB3	0.10	17.01194	3.70551	0.24225	0.0588	0.2699	4.1280
19	NC1	0.30	22.87052	5.51499	0.29156	0.1312	0.5440	10.2895
20	NC2	0.20	15.91780	3.49334	0.21224	0.1256	0.5725	9.4233
21	NC3	0.30	15.91134	3.64292	0.20950	0.1885	0.8235	14.3198
22	ND1	0.10	28.70266	6.43502	0.34398	0.0348	0.1554	2.9071
23	ND2	0.50	35.89471	8.42194	0.42727	0.1393	0.5937	11.7022
24	ND3	0.40	16.38019	4.03968	0.21274	0.2442	0.9902	18.8023
Rata-rata						0.1730	0.7524	12.9577
STDEV						0.0914	0.3926	6.4153

S1 = 205 ppm ; S2 = 5.0 ppm ; S3 = 10.0 ppm

Keterangan :

Pada pengukuran Cu, baik larutan sampel maupun larutan standar tidak diencerkan

Volume sampel larutan x hasil pengukuran logam dalam ppm atau mg/l

Kandungan logam = $\frac{\text{Volume sampel larutan x hasil pengukuran logam dalam ppm atau mg/l}}{\text{Berat sampel (basah/kering/abu) dalam gram}}$

LAMPIRAN 3

Analisa Logam Zn dalam Sampel *Edible* Ikan Mujair dari Tambak IPLT dan Non IPLT

No.	Sampel	Zn (ppm)	Pengenc.	Berat basah (g)	Berat kering (g)	Berat abu (g)	Kandungan Zn (µg/g) dalam			
							smp1 basah	smp1 kering	smp1 abu	
1	A1	1.80	20.00	35.63884	9.12615	0.42193	10.0090	39.085	845.40	
2	A2	1.30	10.00	24.26988	6.26554	0.26703	5.22	20.222	474.48	
3	A3	1.30	20.00	30.41682	8.18234	0.38727	8.439	31.372	662.85	
4	B1	2.40	10.00	32.59693	7.88502	0.37023	7.261	30.019	639.33	
5	B2	1.30	10.00	24.06370	6.06021	0.26355	5.265	20.907	480.74	
6	B3	1.50	20.00	43.48303	9.30944	0.42069	6.823	31.871	705.27	
7	C1	0.50	20.00	21.75173	5.07869	0.30120	4.446	15.027	155.05	
8	C2	1.60	20.00	18.86745	3.80511	0.25061	16.786	35.817	1263.72	
9	C3	1.60	20.00	31.61823	7.90612	0.35079	10.016	40.158	902.82	
10	D1	1.00	20.00	25.27867	6.17446	0.30102	7.781	31.857	653.44	
11	D2	1.70	20.00	41.15580	9.88135	0.42785	8.181	34.074	786.96	
12	D3	0.60	20.00	33.40949	7.98406	0.36901	3.493	14.617	153.65	
							Rata-rata	7.810	28.752	643.64
							STDEV	3.506	8.870	309.13

13	NA1	1.20	10.00	15.14141	3.49907	0.21932	7.707	35.524	532.1	
14	NA2	1.80	10.00	22.52012	4.97417	0.31495	7.846	35.524	561.04	
15	NA3	1.70	10.00	18.43615	4.32511	0.26408	9.042	38.542	631.25	
16	NB1	1.20	10.00	19.69955	4.49178	0.25408	5.924	25.981	459.3	
17	NB2	1.80	10.00	23.07643	4.92625	0.27603	7.657	35.869	640.15	
18	NB3	1.60	10.00	17.01194	3.70551	0.24225	9.211	42.288	646.85	
19	NC1	1.80	10.00	22.87052	5.51499	0.29156	7.726	32.040	606.05	
20	NC2	1.40	10.00	15.91780	3.49334	0.21224	8.588	39.132	644.08	
21	NC3	1.40	10.00	15.91134	3.64292	0.20950	8.591	37.525	652.51	
22	ND1	2.20	10.00	28.70266	6.43502	0.34398	7.550	42.668	629.98	
23	ND2	2.00	10.00	35.89471	8.42194	0.42727	5.480	51.694	460.36	
24	ND3	1.40	10.00	16.38019	4.03968	0.21274	8.345	33.839	642.57	
							Rata-rata	7.806	37.552	592.19
							STDEV	1.131	6.333	71.94

S1 = 0.6 ppm ; S2 = 1.2 ppm ; S3 = 2.4 ppm ; blanko = 0.33 ppm

Keterangan :

Pada pengukuran Zn, larutan sampel diencerkan terlebih dahulu (10x, 20x)

Larutan standar Zn tidak diencerkan

Volume sampel larutan x hasil pengukuran logam dalam ppm atau mg/l

Kandungan logam = $\frac{\text{Volume sampel larutan x hasil pengukuran logam dalam ppm atau mg/l}}{\text{Berat sampel (basah/kering/abu) dalam gram}}$

Pengenc. = pengenceran

Smpl = sample

LAMPIRAN 4

Analisa Logam Fe dalam Sampel *Edible* Ikan Mujair dari Tambak IPLT dan Non IPLT

No.	Smpl	Fe (ppm)	Pengenc.	Berat basah (g)	Berat kering (g)	Berat abu (g)	Kandungan Fe (µg/g) dalam			
							smpl basah	smpl kering	smpl abu	
1	A1	10.00	1.00	35.63884	9.12615	0.42193	2.8059	10.958	237.01	
2	A2	7.00	1.00	24.26988	6.26554	0.26703	2.8842	11.172	262.14	
3	A3	14.00	1.00	30.41682	8.18234	0.38727	4.6027	17.110	361.50	
4	B1	13.00	1.00	32.59693	7.88502	0.37023	3.9881	16.487	351.13	
5	B2	9.00	1.00	24.06370	6.06021	0.26355	3.7401	14.851	341.49	
6	B3	11.00	1.00	43.48303	9.30944	0.42069	2.5297	11.816	261.48	
7	C1	9.00	10.00	21.75173	5.07869	0.30120	4.1376	17.721	298.80	
8	C2	14.00	1.00	18.86745	3.80511	0.25061	7.4202	36.793	558.64	
9	C3	7.00	10.00	31.61823	7.90612	0.35079	22.1391	88.539	1995.50	
10	D1	11.00	2.00	25.27867	6.17446	0.30102	8.7030	35.631	730.85	
11	D2	9.00	2.00	41.15580	9.88135	0.42785	4.3736	18.216	420.71	
12	D3	4.00	1.00	33.40949	7.98406	0.36901	1.1973	5.010	108.40	
							Rata-rata	5.7101	23.692	493.97
							STDEV	5.5680	22.497	499.28

13	NA1	3.00	1.00	15.14141	3.49907	0.21932	1.9813	8.574	136.79	
14	NA2	11.00	1.00	22.52012	4.97417	0.31495	4.8845	22.114	349.26	
15	NA3	9.00	1.00	18.43615	4.32511	0.26408	4.8817	20.809	340.81	
16	NB1	6.00	1.00	19.69955	4.49178	0.25408	3.0458	13.358	236.15	
17	NB2	9.00	1.00	23.07643	4.92625	0.27603	3.9001	18.269	326.05	
18	NB3	9.00	1.00	17.01194	3.70551	0.24225	5.2904	24.288	371.52	
19	NC1	10.00	1.00	22.87052	5.51499	0.29156	4.3724	18.132	342.98	
20	NC2	9.00	1.00	15.91780	3.49334	0.21224	5.6540	25.763	424.05	
21	NC3	12.00	1.00	15.91134	3.64292	0.20950	7.5418	32.941	572.79	
22	ND1	2.00	1.00	28.70266	6.43502	0.34398	0.6968	3.108	58.14	
23	ND2	11.00	2.00	35.89471	8.42194	0.42727	6.1290	26.122	514.90	
24	ND3	10.00	1.00	16.38019	4.03968	0.21274	6.1049	24.754	470.06	
							Rata-rata	4.5402	19.853	345.29
							STDEV	1.9072	8.260	148.09

S1 = 3.0 ppm ; S2 = 9.0 ppm ; S3 = 14.0 ppm

Keterangan :

Pada pengukuran Fe, larutan sampel ada yang tidak diencerkan dan ada yang diencerkan (2x,10x)

Larutan standar Fe tidak diencerkan

Volume sampel larutan x hasil pengukuran logam dalam ppm atau mg/l

Kandungan logam =

Berat sampel (basah/kering/abu) dalam gram

LAMPIRAN 5

Analisa Logam Cd dalam Sampel Sedimen dari Tambak IPLT dan Non IPLT

No.	Sampel	Cd (ppm)	Berat basah (g)	Berat kering (g)	Kandungan Cd (mg/g) dalam	
					sampel basah	sampel kering
1	Sed1.1	0.05	10.96352	0.50261	0.0456	0.9948
2	Sed1.2	0.04	45.65643	0.50005	0.0088	0.7999
3	Sed2.1	0.05	10.99098	0.50251	0.0455	0.9950
4	Sed2.2	0.05	46.74480	0.49875	0.0107	1.0025
5	Sed3.1	0.05	12.59065	0.50186	0.0397	0.9963
6	Sed3.2	0.03	70.70358	0.49967	0.0042	0.6004
7	Sed4.1	0.06	12.59065	0.50111	0.0477	1.1973
8	Sed4.2	0.04	61.54655	0.49969	0.0065	0.8005
9	Sed5.1	0.08	39.34690	0.50083	0.0203	1.5973
10	Sed5.2	0.07	41.56150	0.50023	0.0163	1.3994
Rata-rata					0.0245	1.0383
STDEV					0.0180	0.2944

11	NSed1.1	0.03	8.86334	0.50268	0.0338	0.5968
12	NSed1.2	0.04	57.71860	0.49835	0.0069	0.8026
13	NSed2.1	0.02	6.39032	0.50196	0.0313	0.3984
14	NSed2.2	0.05	43.58960	0.49889	0.0115	1.0022
15	NSed3.1	0.05	9.41119	0.50053	0.0531	0.9989
16	NSed3.2	0.03	41.41334	0.50003	0.0072	0.6000
17	NSed4.1	0.06	7.45157	0.50188	0.0805	1.1955
18	NSed4.2	0.03	37.67616	0.50003	0.0080	0.6000
19	NSed5.1	0.04	7.69145	0.50040	0.0520	0.7994
20	NSed5.2	0.03	35.97293	0.49990	0.0083	0.6001
Rata-rata					0.0293	0.7594
STDEV					0.0257	0.2456

S1 = 0.06 ppm ; S2 = 0.12 ppm ; S = 0.18 ppm

Keterangan :

Pada pengukuran Cd, larutan sampel tidak diencerkan tetapi larutan standar diencerkan (1/10)

Volume sampel larutan x hasil pengukuran logam dalam ppm atau mg/l

Kandungan logam = $\frac{\text{Volume sampel larutan} \times \text{hasil pengukuran logam dalam ppm atau mg/l}}{\text{Berat sampel (basah/kering) dalam gram}}$

LAMPIRAN 6

Analisa Logam Cu dalam Sampel Sedimen dari Tambak IPLT dan Non IPLT

No.	Sampel	Cu (ppm)	Berat basah (g)	Berat kering (g)	Kandungan Cu ($\mu\text{g/g}$) dalam	
					sampel basah	sampel kering
1	Sed1.1	2.10	10.96352	0.50261	1.9154	41.7819
2	Sed1.2	1.80	45.65643	0.50005	0.3942	35.9964
3	Sed2.1	2.20	10.99098	0.50251	2.0016	43.7802
4	Sed2.2	1.90	46.74480	0.49875	0.4065	38.0952
5	Sed3.1	1.80	12.59065	0.50186	1.4296	35.8666
6	Sed3.2	1.50	70.70358	0.49967	0.2122	30.0198
7	Sed4.1	1.90	12.59065	0.50111	1.5091	37.9158
8	Sed4.2	2.40	61.54655	0.49969	0.3899	48.0298
9	Sed5.1	9.20	39.34690	0.50083	2.3382	183.6951
10	Sed5.2	8.80	41.56150	0.50023	2.1173	175.9191
Rata-rata					1.2714	67.1100
STDEV					0.8366	59.6242

11	NSed1.1	1.90	8.86334	0.50268	2.1437	37.7974
12	NSed1.2	2.30	57.71860	0.49835	0.3985	46.1523
13	NSed2.1	1.50	6.39032	0.50196	2.3473	29.8829
14	NSed2.2	2.60	43.58960	0.49889	0.5965	52.1157
15	NSed3.1	2.50	9.41119	0.50053	2.6564	49.9471
16	NSed3.2	1.60	41.41334	0.50003	0.3863	31.9981
17	NSed4.1	2.50	7.45157	0.50188	3.3550	49.8127
18	NSed4.2	2.00	37.67616	0.50003	0.5308	39.9976
19	NSed5.1	2.00	7.69145	0.50040	2.6003	39.9680
20	NSed5.2	2.10	35.97293	0.49990	0.5838	42.0084
Rata-rata					1.5599	41.9680
STDEV					1.1611	7.5749

S1 = 205 ppm ; S2 = 5.0 ppm ; S3 = 10.0 ppm

Keterangan :

Pada pengukuran Cu, baik larutan sampel maupun larutan standar tidak diencerkan

Volume sampel larutan x hasil pengukuran logam dalam ppm atau mg/l

Kandungan logam = $\frac{\text{Volume sampel larutan} \times \text{hasil pengukuran logam dalam ppm atau mg/l}}{\text{Berat sampel (basah/kering) dalam gram}}$

LAMPIRAN 7

Analisa Logam Pb dalam Sampel Sedimen dari Tambak IPLT dan Non IPLT

No.	Sampel	Pb (ppm)	Berat basah (g)	Berat kering (g)	Kandungan Pb ($\mu\text{g/g}$) dalam	
					sampel basah	sampel kering
1	Sed1.1	5.00	10.96352	0.50261	4.5606	99.4807
2	Sed1.2	2.00	45.65643	0.50005	0.4381	39.9960
3	Sed2.1	3.00	10.99098	0.50251	2.7295	59.7003
4	Sed2.2	4.00	46.74480	0.49875	0.8557	80.2005
5	Sed3.1	1.00	12.59065	0.50186	0.7942	19.9259
6	Sed3.2	2.00	70.70358	0.49967	0.2829	40.0264
7	Sed4.1	1.00	12.59065	0.50111	0.7942	19.9557
8	Sed4.2	7.00	61.54655	0.49969	1.1374	140.0869
9	Sed5.1	3.00	39.34690	0.50083	0.7624	59.9006
10	Sed5.2	3.00	41.56150	0.50023	0.7218	59.9724
Rata-rata					1.3077	61.9245
STDEV					1.3254	37.0470

11	NSed1.1	3.00	8.86334	0.50268	3.3843	59.6801
12	NSed1.2	1.00	57.71860	0.49835	0.1733	20.0062
13	NSed2.1	1.00	6.39032	0.50196	1.5649	19.9219
14	NSed2.2	2.00	43.58960	0.49889	0.4588	40.089
15	NSed3.1	1.00	9.41119	0.50053	1.0626	19.9788
16	NSed3.2	3.00	41.41334	0.50003	0.7244	59.9964
17	NSed4.1	6.00	7.45157	0.50188	8.0520	119.5505
18	NSed4.2	7.00	37.67616	0.50003	1.8579	139.9916
19	NSed5.1	2.00	7.69145	0.50040	2.6003	39.9680
20	NSed5.2	5.00	35.97293	0.49990	1.3899	100.0200
Rata-rata					2.1268	61.9203
STDEV					2.2984	43.6080

S1 = 10.0 ppm ; S2 = 20.0 ppm ; S3 = 40.0 ppm

Keterangan :

Pada pengukuran Pb, baik larutan sampel maupun larutan standar tidak diencerkan

Volume sampel larutan x hasil pengukuran logam dalam ppm atau mg/l

Kandungan logam = $\frac{\text{Volume sampel larutan} \times \text{hasil pengukuran logam dalam ppm atau mg/l}}{\text{Berat sampel (basah/kering) dalam gram}}$

LAMPIRAN 8

Analisa Logam Zn dalam Sampel Sedimen dari Tambak IPLT dan Non IPLT

No.	Sampel	Zn (ppm)	Pengenceran	Berat basah (g)	Berat kering (g)	Kandungan Zn (µg/g) dalam		
						sampel basah	sampel kering	
1	Sed1.1	0.50	10.00	10.96352	0.50261	4.260	92.915	
2	Sed1.2	1.10	20.00	45.65643	0.50005	4.746	433.357	
3	Sed2.1	0.60	10.00	10.99098	0.50251	5.159	112.834	
4	Sed2.2	1.10	20.00	46.74480	0.49875	4.636	434.486	
5	Sed3.1	0.50	10.00	12.59065	0.50186	3.709	93.054	
6	Sed3.2	0.90	20.00	70.70358	0.49967	2.499	353.633	
7	Sed4.1	0.50	10.00	12.59065	0.50111	3.709	93.193	
8	Sed4.2	0.80	10.00	61.54655	0.49969	1.246	153.495	
9	Sed5.1	2.10	10.00	39.34690	0.50083	5.253	412.715	
10	Sed5.2	1.70	20.00	41.56150	0.50023	8.101	673.090	
						Rata-rata	4.332	285.277
						STDEV	1.816	203.703

11	NSed1.1	0.40	10.00	8.86334	0.50268	4.141	73.009	
12	NSed1.2	0.90	20.00	57.71860	0.49835	3.061	354.570	
13	NSed2.1	0.30	10.00	6.39032	0.50196	4.178	53.191	
14	NSed2.2	0.90	20.00	43.58960	0.49889	4.054	354.186	
15	NSed3.1	0.60	10.00	9.41119	0.50053	6.025	113.280	
16	NSed3.2	0.80	20.00	41.41334	0.50003	3.784	313.381	
17	NSed4.1	0.30	10.00	7.45157	0.50188	3.583	35.200	
18	NSed4.2	1.20	20.00	37.67616	0.50003	6.282	473.372	
19	NSed5.1	0.60	10.00	7.69145	0.50040	7.372	113.309	
20	NSed5.2	1.00	20.00	35.97293	0.49990	5.468	393.479	
						Rata-rata	4.795	227.698
						STDEV	1.401	164.954

S1 = 0.6 ppm ; S2 = 1.2 ppm ; S3 = 2.4 ppm ; blanko = 0.33 ppm

Keterangan :

Pada pengukuran Zn, larutan sampel diencerkan terlebih dahulu (10x, 20x)

Larutan standar Zn tidak diencerkan

Volume sampel larutan x hasil pengukuran logam dalam ppm atau mg/l

Kandungan logam = $\frac{\text{Volume sampel larutan x hasil pengukuran logam dalam ppm atau mg/l}}{\text{Berat sampel (basah/kering) dalam gram}}$

LAMPIRAN 9

Analisa Logam Fe dalam Sampel Sedimen dari Tambak IPLT dan Non IPLT

No.	Sampel	Fe (ppm)	Pengenc.	Berat basah (g)	Berat kering (g)	Kandungan Fe (µg/g) dalam	
						sampel basah	sampel kering
1	Sed1.1	14.00	100.00	10.96352	0.50261	1276.9621	27854.599
2	Sed1.2	12.00	200.00	45.65643	0.50005	525.6653	47995.200
3	Sed2.1	12.00	100.00	10.99098	0.50251	1091.8044	23880.122
4	Sed2.2	9.00	200.00	46.74480	0.49875	385.0696	36090.226
5	Sed3.1	10.00	100.00	12.59065	0.50186	794.2402	19925.876
6	Sed3.2	10.00	200.00	70.70358	0.49967	282.8711	40026.417
7	Sed4.1	11.00	100.00	12.59065	0.50111	873.6642	21951.268
8	Sed4.2	12.00	100.00	61.54655	0.49969	194.9744	24014.589
9	Sed5.1	2.00	100.00	39.34690	0.50083	50.8299	3993.371
10	Sed5.2	7.00	50.00	41.56150	0.50023	84.2126	6996.781
Rata-rata						556.0294	25272.845
STDEV						431.7147	13693.595

11	NSed1.1	12.00	100.00	8.86334	0.50268	1353.8914	23872.046
12	NSed1.2	13.00	500.00	57.71860	0.49835	1126.1534	130430.420
13	NSed2.1	10.00	100.00	6.39032	0.50196	1564.8669	19921.906
14	NSed2.2	12.00	500.00	43.58960	0.49889	1376.4751	120266.993
15	NSed3.1	8.00	200.00	9.41119	0.50053	1700.1038	31966.116
16	NSed3.2	9.00	200.00	41.41334	0.50003	434.6426	35997.840
17	NSed4.1	11.00	100.00	7.45157	0.50188	1476.1990	21917.590
18	NSed4.2	11.00	200.00	37.67616	0.50003	583.9236	43997.360
19	NSed5.1	11.00	100.00	7.69145	0.50040	1430.1595	21982.414
20	NSed5.2	14.00	200.00	35.97293	0.49990	778.3631	56011.202
Rata-rata						1182.4778	50636.389
STDEV						436.2466	41037.746

S1 = 3.0 ppm ; S2 = 9.0 ppm ; S3 = 14.0 ppm

Keterangan :

Pada pengukuran Fe, larutan sampel diencerkan (50x, 100x, 200x, 500x)

Larutan standar Fe tidak diencerkan

Volume sampel larutan x hasil pengukuran logam dalam ppm atau mg/l

Kandungan logam = $\frac{\text{Volume sampel larutan} \times \text{hasil pengukuran logam dalam ppm atau mg/l}}{\text{Berat sampel (basah/kering) dalam gram}}$

LAMPIRAN 10

Analisa Logam Cd, Cu, Zn dan Fe dalam *Reference material* (oleh Wulan, 2003)

No.	Sampel	Cd (ppm)	Pengenceran	Berat kering (g)	Berat abu (g)	Kandungan Cd ($\mu\text{g/g}$) dalam	
						Berat kering	Berat abu
1	R1	0.09	5	5.00337	0.34006	0.8994	13.233
2	R2	0.09	5	4.56085	0.31039	0.9867	14.498
3	R3	0.04	5	4.60292	0.31319	0.4345	6.386
Rata-rata						0.7735	11.3723
STDEV						0.2968	4.3644

No.	Sampel	Cu (ppm)	Pengenceran	Berat kering (g)	Berat abu (g)	Kandungan Cu ($\mu\text{g/g}$) dalam	
						Berat kering	Berat abu
1	R1	0.9	1	5.00337	0.34006	1.7988	26.4659
2	R2	0.8	1	4.56085	0.31039	1.7541	25.7740
3	R3	0.4	1	4.60292	0.31319	0.8690	12.7718
Rata-rata						1.4740	21.6706
STDEV						0.5244	7.7143

No.	Sampel	Zn (ppm)	Pengenceran	Berat kering (g)	Berat abu (g)	Kandungan Zn ($\mu\text{g/g}$) dalam	
						Berat kering	Berat abu
1	R1	1.6	10	5.00337	0.34006	31.319	460.80
2	R2	1.3	10	4.56085	0.31039	27.780	408.20
3	R3	1.5	10	4.60292	0.31319	31.871	468.41
Rata-rata						30.323	445.80
STDEV						2.220	32.79

No.	Sampel	Fe (ppm)	Pengenceran	Berat kering (g)	Berat abu (g)	Kandungan Fe ($\mu\text{g/g}$) dalam	
						Berat kering	Berat abu
1	R1	9	10	5.00337	0.34006	179.879	2646.49
2	R2	10	10	4.56085	0.31039	219.257	3221.75
3	R3	5	10	4.60292	0.31319	108.627	1596.47
Rata-rata						169.2543	2488.2367
STDEV						56.0751	824.1158

Keterangan :

Pada pengukuran Cd, larutan sampel diencerkan terlebih dahulu (5x)

Pada pengukuran Cu, larutan sampel tidak diencerkan

Pada pengukuran Zn, larutan sampel diencerkan terlebih dahulu (10x)

Pada pengukuran Fe, larutan sampel diencerkan terlebih dahulu (10x)

Analisa Logam Cd, Cu, Pb, Zn dan Fe dalam *Reference material* (oleh Karyoke, 2003)

No.	Sampel	Cd (ppm)	Pengenc.	Berat kering (g)	Berat abu (g)	Kandungan Cd ($\mu\text{g/g}$) dalam	
						Berat kering	Berat abu
1	R1	0.09	10	3.85126	0.40554	2.337	22.193
2	R2	0.06	10	4.52364	0.42798	1.326	14.019
3	R3	0.07	10	3.9327	0.42814	1.779	16.349
						Rata-rata	17.52
						STDEV	4.211

No.	Sampel	Cu (ppm)	Pengenc.	Berat kering (g)	Berat abu (g)	Kandungan Cu ($\mu\text{g/g}$) dalam	
						Berat kering	Berat abu
1	R1	2.1	0	3.85126	0.40554	5.453	51.783
2	R2	1.7	0	4.52364	0.42798	3.758	39.721
3	R3	1.3	0	3.9327	0.42814	3.306	30.364
						Rata-rata	40.623
						STDEV	10.738

No.	Sampel	Pb (ppm)	Pengenc.	Berat kering (g)	Berat abu (g)	Kandungan Pb ($\mu\text{g/g}$) dalam	
						Berat kering	Berat abu
1	R1	1	0	3.85126	0.40554	2.597	24.658
2	R2	0	0	4.52364	0.42798	0	0
3	R3	0	0	3.9327	0.42814	0	0
						Rata-rata	8.219
						STDEV	14.236

No.	Sampel	Zn (ppm)	Pengenc.	Berat kering (g)	Berat abu (g)	Kandungan Zn ($\mu\text{g/g}$) dalam	
						Berat kering	Berat abu
1	R1	0.6	50	3.85126	0.40554	77.897	739.754
2	R2	1.7	20	4.52364	0.42798	75.161	794.429
3	R3	1.7	20	3.9327	0.42814	86.455	794.133
						Rata-rata	776.105
						STDEV	31.482

No.	Sampel	Fe (ppm)	Pengenc.	Berat kering (g)	Berat abu (g)	Kandungan Fe ($\mu\text{g/g}$) dalam	
						Berat kering	Berat abu
1	R1	9	20	3.85126	0.40554	467.379	4438.53
2	R2	9	10	4.52364	0.42798	198.955	2102.90
3	R3	9	10	3.9327	0.42814	228.850	2102.12
						Rata-rata	2881.184
						STDEV	1348.701

LAMPIRAN 11

Hasil Analisa Independent T-test Logam Cd dalam Edible Ikan Mujair (Cd_I) dan Sedimen (Cd_s) dari Tambak IPLT dan Non IPLT

Independent Samples Test

	Levene's Test for Equality of Variances		t-test for Equality of Means					95% Confidence Interval of the Difference	
	F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
CD_I	.633	.435	.290	22	.775	2.858E-03	9.857E-03	-1.8E-02	2.33E-02
			.290	21.509	.775	2.858E-03	9.857E-03	-1.8E-02	2.33E-02
CD_S	.047	.830	2.301	18	.034	.278950	.121245	2.42E-02	.533675
			2.301	17.439	.034	.278950	.121245	2.36E-02	.534264

LAMPIRAN 12

Hasil Analisa *Independent T-test* Logam Cu dalam *Edible Ikan Mujair (Cu_I)* dan Sedimen (*Cu_s*) dari Tambak IPLT dan Non IPLT

Independent Samples Test

	Levene's Test for Equality of Variances		t-test for Equality of Means						95% Confidence Interval of the Difference	
	F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper	
								Lower	Upper	
CU_I Equal variances assumed	.130	.722	2.579	22	.017	.490017	.189986	9.60E-02	.884023	
Equal variances not assumed			2.579	20.311	.018	.490017	.189986	9.41E-02	.885931	
CU_S Equal variances assumed	1.784	.198	-1.054	18	.306	-3.032300	2.878260	-9.079300	3.014700	
Equal variances not assumed			-1.054	15.674	.308	-3.032300	2.878260	-9.144276	3.079676	

LAMPIRAN 13

Hasil Analisa *Independent T-test* Logam Zn dalam *Edible Ikan Mujair (Zn_I)* dan *Sedimen (Zn_s)* dari Tambak IPLT dan Non IPLT

Independent Samples Test

	Levene's Test for Equality of Variances		t-test for Equality of Means					95% Confidence Interval of the Difference	
	F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
ZN_I									
Equal variances assumed	2.450	.132	-2.726	22	.012	-8.61900	3.16198	-15.17654	-2.06146
Equal variances not assumed			-2.726	20.054	.013	-8.61900	3.16198	-15.21363	-2.02437
ZN_S									
Equal variances assumed	3.029	.099	1.044	18	.310	81.28247	77.87826	-82.33368	244.89862
Equal variances not assumed			1.044	15.850	.312	81.28247	77.87826	-83.93945	246.50439

LAMPIRAN 14

Hasil Analisa *Independent T-test* Logam Fe dalam *Edible Ikan Mujair (Fe_D)* dan Sedimen (*Fe_s*) dari Tambak IPLT dan Non IPLT

Independent Samples Test

	Levene's Test for Equality of Variances		t-test for Equality of Means				95% Confidence Interval of the Difference		
	F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
FE_J									
Equal variances assumed	.849	.367	-.133	22	.896	-.52125	3.93244	-8.67662	7.63412
Equal variances not assumed			-.133	20.560	.896	-.52125	3.93244	-8.70987	7.66737
FE_S									
Equal variances assumed	.069	.795	-.896	18	.382	-5125.934	5721.5541	-17146.5	6894.606
Equal variances not assumed			-.896	17.626	.382	-5125.934	5721.5541	-17164.8	6912.900

LAMPIRAN 15

Hasil Analisa *Independent T-test* Logam Pb dalam Sedimen (Pb_s) dari Tambak IPLT dan Non IPLT

Independent Samples Test										
		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
PB_S	Equal variances assumed	.559	.464	.000	18	1.000	4.290E-03	18.094589	-38.0110	38.019611
	Equal variances not assumed			.000	17.542	1.000	4.290E-03	18.094589	-38.0823	38.090917

LAMPIRAN 16

Hasil Analisa Statistik Logam dalam *Edible* Ikan Mujair dan Sedimen (Tambak IPLT)

Statistics

		CD I	CU I	ZN I	FE I
N	Valid	12	12	12	12
	Missing	3	3	3	3
Mean		7.58E-02	1.242375	28.752167	23.692000
Std. Error of Mean		1.39E-02	.152483	2.560515	6.494350
Median		6.23E-02	1.245150	31.614500	16.798500
Std. Deviation		4.81E-02	.528218	8.869884	22.497088
Variance		2.32E-03	.279014	78.674844	506.1189
Range		.1844	2.0407	25.5410	83.5290
Minimum		.0125	.1252	14.6170	5.0100
Maximum		.1969	2.1659	40.1580	88.5390

Statistics

		CD S	CU S	PB S	ZN S	FE S
N	Valid	10	10	10	10	10
	Missing	5	5	5	5	5
Mean		1.038340	67.109990	61.924540	285.2772	25272.84
Std. Error of Mean		9.31E-02	18.854826	11.715300	64.416620	4330.295
Median		.995650	39.938550	59.800450	253.5640	23947.36
Std. Deviation		.294412	59.624194	37.047032	203.7032	13693.59
Variance		8.67E-02	3555.045	1372.483	41495.01	1.9E+08
Range		.9969	153.6753	120.1610	580.1750	44001.83
Minimum		.6004	30.0198	19.9259	92.9150	3993.3710
Maximum		1.5973	183.6951	140.0869	673.0900	47995.20

LAMPIRAN 17

Hasil Analisa Statistik Logam dalam *Edible* Ikan Mujair dan Sedimen (Tambak Non IPLT)

Statistics

		CD I	CU I	ZN I	FE I
N	Valid	12	12	12	12
	Missing	2	2	2	2
Mean		5.89E-02	.752358	37.371167	19.852867
Std. Error of Mean		7.48E-03	.113329	1.855226	2.384461
Median		5.76E-02	.708600	36.697000	21.461500
Std. Deviation		2.59E-02	.392584	6.426691	8.260014
Variance		6.71E-04	.154122	41.302360	68.227825
Range		.0770	1.2736	25.7130	29.8330
Minimum		.0155	.1554	25.9810	3.1080
Maximum		.0925	1.4290	51.6940	32.9410

Statistics

		CD S	CU S	PB S	ZN S	FE S
N	Valid	10	10	10	10	10
	Missing	4	4	4	4	4
Mean		.759390	41.968020	61.920250	227.6977	50636.39
Std. Error of Mean		7.77E-02	2.395403	13.790065	52.163155	12977.27
Median		.699750	41.003000	49.884550	213.3450	33981.98
Std. Deviation		.245609	7.574930	43.608015	164.9544	41037.75
Variance		6.03E-02	57.379566	1901.659	27209.95	1.7E+09
Range		.7971	22.2328	120.0697	438.1720	110508.5
Minimum		.3984	29.8829	19.9219	35.2000	19921.91
Maximum		1.1955	52.1157	139.9916	473.3720	130430.4

LAMPIRAN 18

Hasil Perhitungan Jumlah Maksimum Konsumsi (JMK) Ikan Mujair

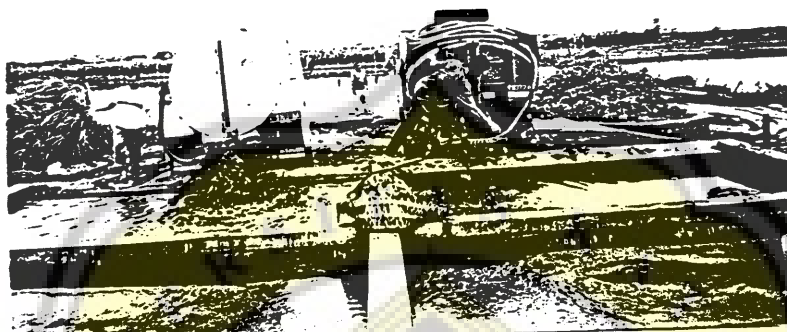
Kode	Kons. Cd dlm "edible" (µg/g)	Rata-rata	Patokan berat badan		MTWI (µg/kg BB)	JMK (g/minggu)	
			Pria (kg)	Wanita (kg)		Pria	Wanita
A	0.0161	0.01803	65	55	7	25242.7	21359.2
B	0.0131						
C	0.0326						
D	0.0103						
NA	0.0139	0.013475	65	55	7	33766.2	28571.4
NB	0.0114						
NC	0.0148						
ND	0.0138						

Kode	Kons. Cu dlm "edible" (µg/g)	Rata-rata	MTWI (µg/kg BB)		JMK (g/minggu)	
			Pria	Wanita	Pria	Wanita
A	0.2905	0.2986	84000	70000	281313	234427.328
B	0.2697					
C	0.4327					
D	0.2015					
NA	0.2712	0.173025	84000	70000	485479	404565.814
NB	0.1331					
NC	0.1484					
ND	0.1394					

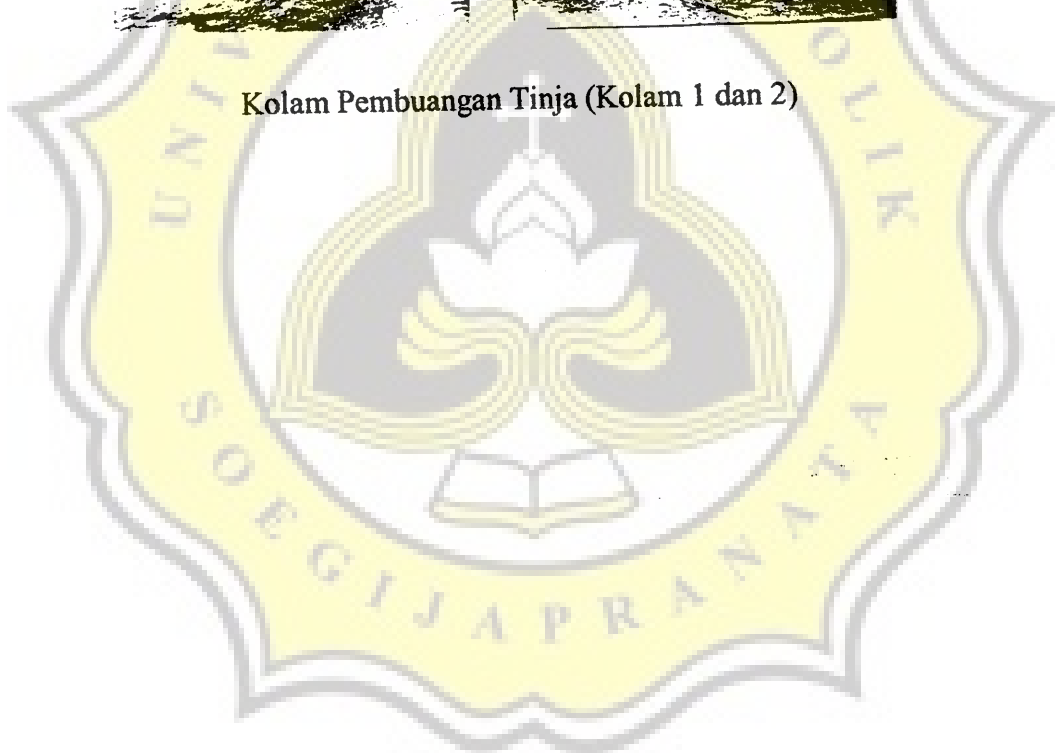
Kode	Kons Zn dlm "edible" (µg/g)	Rata-rata	MTWI (µg/kg BB)		JMK (g/minggu)	
			Pria	Wanita	Pria	Wanita
A	7.8893	7.8100	315000	245000	40332.9	31370.0384
B	6.4497					
C	10.4160					
D	6.4850					
NA	8.1983	7.8056	315000	245000	40355.8	31387.8222
NB	7.5973					
NC	8.3017					
ND	7.1250					

LAMPIRAN 19

Kolam Pengolahan Lumpur Tinja



Kolam Pembuangan Tinja (Kolam 1 dan 2)





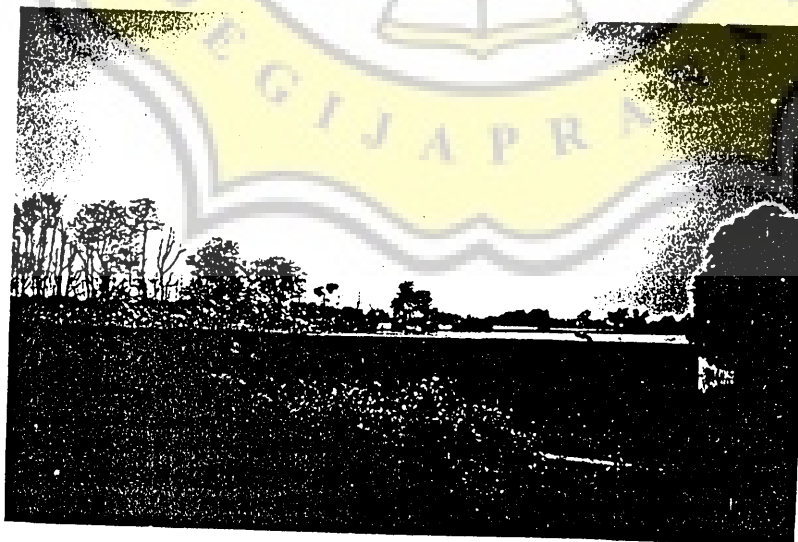
Kolam Pengendapan 1 (Kolam 3)



Kolam Pengendapan 2 (Kolam 4)



Kolam Pengendapan 3 (Kolam 5)



Kolam Drying Bed