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LAMPIRAN

LAMPIRAN A
PERHITUNGAN PREDIKSI DOSIS
INJEKSI FERROSULFAT

Data penelitian berjumlah 1908 data yang terdiri dari kadar Cr(VI) inlet, debit air, dosis injeksi ferrosulfat, dan kadar Cr(VI) outlet.

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
1	0.36	102	144	0.00	102.42	66.05	-11.61	
2	0.38	602	230	0.00	105.50	272.05	194.50	
3	1.5	3100	360	0.01	278.22	1301.23	1306.21	0.02
4	1.1	700	360	0.01	216.54	312.43	292.46	0.02
5	0.80	1620	432	0.00	170.27	691.47	644.62	
6	1.60	661	324	0.01	293.64	296.36	316.70	0.01
7	0.90	566	180	0.00	185.69	257.22	221.57	
8	1.00	660	216	0.00	201.11	295.95	268.06	
9	0.80	761	252	0.00	170.27	337.56	293.29	
10	1.20	3500	360	0.00	231.96	1466.03	1445.69	
11	1.60	1750	864	0.00	293.64	745.03	762.10	
12	1.5	865	540	0.00	278.22	380.41	392.09	
13	1.2	764	270	0.00	231.96	338.80	326.67	
14	1.90	4200	1440	0.00	339.91	1754.43	1788.26	
15	1.90	3500	1440	0.00	339.91	1466.03	1501.96	
16	1.20	1015	504	0.00	231.96	442.21	429.33	
17	1.20	590	324	0.00	231.96	267.11	255.50	
18	1.20	1447	360	0.00	231.96	620.19	606.02	
19	1.10	712	360	0.00	216.54	317.37	297.36	
20	1.10	611	360	0.00	216.54	275.76	256.06	
21	1.10	552	166	0.00	216.54	251.45	231.92	
22	1.10	543	166	0.00	216.54	247.74	228.24	
23	1.20	2452	1080	0.00	231.96	248.16	1017.06	
24	1.20	1000	432	0.00	231.96	436.03	423.19	
25	1.20	750	288	0.00	231.96	333.03	320.94	
26	1.10	701	306	0.00	216.54	312.84	292.87	
27	1.10	600	260	0.01	216.54	271.23	251.56	0.01
28	1.00	544	216	0.01	201.11	248.16	220.61	0.01
29	0.61	550	216	0.00	140.97	250.63	191.72	
30	1.00	537	216	0.00	201.11	245.27	217.75	
31	1.00	535	216	0.00	201.11	244.45	216.93	
32	1.00	500	216	0.00	201.11	230.03	202.62	
33	1.00	500	216	0.00	201.11	230.03	202.62	
34	0.68	450	108	0.00	151.77	209.43	156.45	
35	0.67	1000	252	0.00	150.22	436.03	380.59	
36	0.70	802	180	0.01	154.85	354.45	302.02	0.01
37	1.00	929	252	0.01	201.11	406.78	378.08	0.02
38	1.2	312	144	0.01	231.96	152.57	141.80	0.01
39	1.40	1270	360	0.01	262.80	547.27	549.70	0.02
40	1.20	35	72	0.00	231.96	38.45	28.51	
41	1.40	28	72	0.00	262.80	35.56	41.72	
42	1.55	22	39	0.00	285.93	33.09	51.33	
43	1.30	610	252	0.00	247.38	275.35	271.72	
44	1.3	126	108	0.00	247.38	75.94	73.77	
45	2.00	30	18	0.01	355.33	36.39	90.77	0.01
46	1.40	30	36	0.00	262.80	36.39	42.54	
47	1.50	32	36	0.00	278.22	37.21	51.40	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
48	1.30	38	18	0.00	247.38	39.68	37.77	
49	1.20	33	18	0.00	231.96	37.62	27.69	
50	1.20	26	18	0.00	231.96	34.74	24.83	
51	1.20	18	18	0.00	231.96	31.44	21.56	
52	1.20	15	18	0.00	231.96	30.21	20.33	
53	1.30	212	108	0.43	247.38	111.37	108.94	0.01
54	1.10	40	36	0.01	216.54	40.51	22.52	0.01
55	1.10	36	18	0.00	216.54	38.86	20.88	
56	1.10	33	18	0.00	216.54	37.62	19.65	
57	1.10	20	18	0.00	216.54	32.27	14.34	
58	1.00	13	18	0.00	201.11	29.38	3.43	
59	1.10	35	18	0.00	216.54	38.45	20.47	
60	1.10	92	72	0.00	216.54	61.93	43.78	
61	1.10	40	18	0.00	216.54	40.51	22.52	
62	1.10	35	18	0.00	216.54	38.45	20.47	
63	1.10	119	36	0.00	216.54	73.06	54.83	
64	1.10	45	36	0.00	216.54	42.57	24.56	
65	1.10	40	36	0.00	216.54	40.51	22.52	
66	1.6	3000	900	0.02	293.64	1260.03	1273.35	0.02
67	1.60	1300	612	0.01	293.64	559.63	578.05	0.02
68	1.9	4118	1620	0.02	339.91	1720.64	1754.72	0.03
69	1.40	2450	1000	0.02	262.80	1033.43	1032.32	0.02
70	2.10	4000	2800	0.03	370.75	1672.03	1722.54	0.03
71	1.70	2320	1440	0.01	309.06	979.87	1003.26	0.02
72	1.40	1530	612	0.01	262.80	654.39	656.04	0.02
73	2.30	1080	720	0.00	401.59	468.99	544.33	
74	1.70	633	252	0.01	309.06	284.82	313.28	0.01
75	2.00	310	180	0.01	355.33	151.75	205.29	0.01
76	1.08	230	180	0.00	213.45	118.79	98.62	
77	1.70	250	126	0.00	309.06	127.03	156.63	
78	1.70	390	180	0.00	309.06	184.71	213.89	
79	1.50	450	180	0.00	278.22	209.43	222.36	
80	1.50	530	219	0.00	278.22	242.39	255.08	
81	1.50	625	288	0.00	278.22	281.53	293.93	
82	1.40	40	36	0.00	262.80	40.51	46.63	
83	1.50	37	36	0.00	278.22	39.27	53.44	
84	1.50	38	36	0.00	278.22	39.68	53.85	
85	1.40	36	36	0.00	262.80	38.86	44.99	
86	1.40	40	36	0.00	262.80	40.51	46.63	
87	1.40	35	36	0.00	262.80	38.45	44.59	
88	1.50	35	36	0.00	278.22	38.45	52.62	
89	1.50	36	36	0.00	278.22	38.86	53.03	
90	1.50	36	36	0.00	278.22	38.86	53.03	
91	1.50	88	36	0.00	278.22	60.28	74.30	
92	1.60	338	36	0.01	293.64	163.28	184.59	0.01
93	1.50	33	18	0.00	278.22	37.62	51.81	
94	0.90	2509	1224	0.02	185.69	1057.74	1016.26	0.02
95	1.30	4087	2160	0.00	247.38	1707.87	1693.82	
96	1.50	1135	446	0.00	278.22	491.65	502.52	
97	1.40	410	180	0.00	262.80	192.95	197.96	
98	1.40	220	180	0.06	262.80	114.67	120.25	0.01

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
99	1.40	3412	2160	0.08	262.80	1429.77	1425.78	0.03
100	1.60	1694	900	0.02	293.64	721.96	739.19	0.02
101	1.60	1230	550	0.00	293.64	530.79	549.42	
102	1.50	897	435	0.00	278.22	393.59	405.18	
103	1.60	774	360	0.01	293.64	342.92	362.91	0.02
104	1.50	952	360	0.01	278.22	416.25	427.68	0.02
105	2.50	741	507	0.05	432.44	329.32	421.76	0.02
106	1.90	557	208	0.00	339.91	253.51	298.27	
107	2.00	535	290	0.00	355.33	244.45	297.31	
108	1.80	472	230	0.00	324.49	218.49	255.47	
109	2.00	450	288	0.00	355.33	209.43	262.55	
110	2.00	426	216	0.00	355.33	199.54	252.73	
111	1.50	1125	504	0.02	278.22	487.53	498.43	0.02
112	1.30	800	252	0.00	247.38	353.63	349.43	
113	1.40	45	36	0.00	262.80	42.57	48.68	
114	1.40	40	36	0.00	262.80	40.51	46.63	
115	1.50	45	36	0.00	278.22	42.57	56.71	
116	1.50	58	36	0.00	278.22	47.92	62.03	
117	1.50	46	36	0.00	278.22	42.98	57.12	
118	1.50	34	36	0.00	278.22	38.04	52.21	
119	1.50	40	36	0.00	278.22	40.51	54.67	
120	1.50	43	36	0.00	278.22	41.74	55.90	
121	1.60	40	36	0.00	293.64	40.51	62.71	
122	1.60	35	36	0.00	293.64	38.45	60.66	
123	1.60	37	36	0.00	293.64	39.27	61.48	
124	1.60	31	36	0.00	293.64	36.80	59.03	
125	1.60	36	36	0.00	293.64	38.86	61.07	
126	1.50	43	36	0.00	278.22	41.74	55.90	
127	1.40	38	54	0.00	262.80	39.68	45.81	
128	1.30	37	18	0.00	247.38	39.27	37.37	
129	1.50	38	36	0.00	278.22	39.68	53.85	
130	1.50	116	72	0.00	278.22	71.82	85.75	
131	1.40	45	36	0.00	262.80	42.57	48.68	
132	1.40	37	36	0.00	262.80	39.27	45.40	
133	1.50	38	36	0.00	278.22	39.68	53.85	
134	1.50	35	36	0.00	278.22	38.45	52.62	
135	1.50	35	36	0.00	278.22	38.45	52.62	
136	1.50	35	36	0.00	278.22	38.45	52.62	
137	1.50	33	36	0.00	278.22	37.62	51.81	
138	1.50	30	36	0.00	278.22	36.39	50.58	
139	1.50	39	36	0.00	278.22	40.10	54.26	
140	1.50	24	36	0.00	278.22	33.92	48.12	
141	1.50	22	36	0.00	278.22	33.09	47.31	
142	1.70	22	36	0.00	309.06	33.09	63.38	
143	1.70	22	36	0.00	309.06	33.09	63.38	
144	1.80	15	36	0.00	324.49	30.21	68.56	
145	1.80	13	36	0.00	324.49	29.38	67.74	
146	1.80	16	36	0.00	324.49	30.62	68.97	
147	1.30	15	36	0.00	247.38	30.21	28.37	
148	0.59	545	144	0.00	137.89	248.57	188.07	
149	0.51	35	36	0.00	125.55	38.45	-26.95	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
150	0.52	27	36	0.00	127.09	35.15	-29.42	
151	0.52	10	36	0.00	127.09	28.15	-36.37	
152	0.51	2100	360	0.01	125.55	889.23	817.63	0.02
153	1.20	30	36	0.00	231.96	36.39	26.46	
154	0.70	150	108	0.00	154.85	85.83	35.35	
155	1.50	572	270	0.00	278.22	259.69	272.26	
156	1.50	30	36	0.00	278.22	36.39	50.58	
157	1.20	26	36	0.00	231.96	34.74	24.83	
158	1.20	27	36	0.00	231.96	35.15	25.24	
159	1.10	16	36	0.00	216.54	30.62	12.70	
160	0.36	402	288	0.00	102.42	189.65	111.09	
161	0.38	602	230	0.00	105.50	272.05	194.50	
162	1.5	2886	360	0.01	278.22	1213.06	1218.68	0.02
163	1.1	700	360	0.00	216.54	312.43	292.46	
164	0.80	1330	432	0.00	170.27	571.99	526.01	
165	1.60	640	324	0.00	293.64	287.71	308.11	
166	0.90	580	180	0.00	185.69	262.99	227.30	
167	1.00	640	216	0.00	201.11	287.71	259.88	
168	0.80	755	252	0.00	170.27	335.09	290.84	
169	1.20	3500	360	0.00	231.96	1466.03	1445.69	
170	1.60	1650	864	0.00	293.64	703.83	721.20	
171	1.5	811	540	0.00	278.22	358.16	370.01	
172	1.2	725	270	0.00	231.96	322.73	310.72	
173	1.80	4100	1440	0.00	324.49	1713.23	1739.32	
174	1.80	3100	1440	0.00	324.49	1301.23	1330.32	
175	1.20	965	504	0.00	231.96	421.61	408.88	
176	1.20	580	324	0.00	231.96	262.99	251.41	
177	1.20	1361	360	0.00	231.96	584.76	570.84	
178	1.10	712	360	0.00	216.54	317.37	297.36	
179	1.10	609	360	0.00	216.54	274.94	255.24	
180	1.10	554	166	0.00	216.54	252.28	232.74	
181	1.10	516	180	0.00	216.54	236.62	217.20	
182	1.20	2057	950	0.00	231.96	871.51	855.51	
183	1.20	1000	432	0.00	231.96	436.03	423.19	
184	1.20	750	288	0.00	231.96	333.03	320.94	
185	1.10	663	288	0.00	216.54	297.18	277.32	
186	1.10	581	260	0.00	216.54	263.40	243.79	
187	1.00	544	216	0.00	201.11	248.16	220.61	
188	0.61	541	216	0.00	140.97	246.92	188.04	
189	1.00	530	216	0.00	201.11	242.39	214.89	
190	1.00	535	216	0.00	201.11	244.45	216.93	
191	1.00	500	216	0.00	201.11	230.03	202.62	
192	1.00	500	216	0.00	201.11	230.03	202.62	
193	0.67	450	108	0.00	150.22	209.43	155.64	
194	0.67	1000	252	0.00	150.22	436.03	380.59	
195	0.75	760	180	0.00	162.56	337.15	288.86	
196	1.00	392	108	0.01	201.11	185.53	158.45	0.01
197	1.2	300	144	0.01	231.96	147.63	136.89	0.01
198	1.40	1041	360	0.01	262.80	452.92	456.04	0.02
199	1.20	34	72	0.00	231.96	38.04	28.10	
200	1.40	24	72	0.00	262.80	33.92	40.09	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
201	1.55	22	39	0.00	285.93	33.09	51.33	
202	1.30	600	252	0.00	247.38	271.23	267.63	
203	1.3	122	54	0.00	247.38	74.29	72.13	
204	2.00	30	18	0.01	355.33	36.39	90.77	0.01
205	1.40	28	36	0.00	262.80	35.56	41.72	
206	1.50	28	36	0.00	278.22	35.56	49.76	
207	1.30	36	18	0.00	247.38	38.86	36.96	
208	1.20	32	18	0.00	231.96	37.21	27.28	
209	1.20	30	18	0.00	231.96	36.39	26.46	
210	1.20	18	18	0.00	231.96	31.44	21.56	
211	1.20	15	18	0.00	231.96	30.21	20.33	
212	1.30	145	108	0.00	247.38	83.77	81.54	
213	1.10	40	36	0.01	216.54	40.51	22.52	0.01
214	1.10	36	18	0.00	216.54	38.86	20.88	
215	1.10	31	18	0.00	216.54	36.80	18.84	
216	1.10	22	18	0.00	216.54	33.09	15.15	
217	1.00	12	18	0.00	201.11	28.97	3.03	
218	1.10	35	18	0.00	216.54	38.45	20.47	
219	1.10	69	72	0.00	216.54	52.46	34.38	
220	1.10	37	18	0.00	216.54	39.27	21.29	
221	1.10	40	18	0.00	216.54	40.51	22.52	
222	1.10	98	36	0.00	216.54	64.40	46.24	
223	1.10	45	36	0.00	216.54	42.57	24.56	
224	1.10	40	36	0.00	216.54	40.51	22.52	
225	1.50	3000	900	0.01	278.22	1260.03	1265.31	0.02
226	1.60	1900	900	0.01	293.64	806.83	823.45	0.02
227	1.9	4115	1620	0.02	339.91	1719.41	1753.50	0.03
228	1.40	2015	1000	0.01	262.80	854.21	854.41	0.02
229	2.00	4000	2800	0.02	355.33	1672.03	1714.50	0.03
230	1.70	2720	1440	0.02	309.06	1144.67	1166.86	0.02
231	1.40	1388	612	0.00	262.80	595.88	597.96	
232	2.10	999	720	0.00	370.75	435.62	495.13	
233	1.70	633	252	0.01	309.06	284.82	313.28	0.01
234	2.00	297	180	0.01	355.33	146.39	199.97	0.01
235	1.08	231	180	0.00	213.45	119.20	99.03	
236	1.70	258	126	0.00	309.06	130.32	159.91	
237	1.70	390	180	0.00	309.06	184.71	213.89	
238	1.50	450	180	0.00	278.22	209.43	222.36	
239	1.50	530	219	0.00	278.22	242.39	255.08	
240	1.50	641	288	0.00	278.22	288.12	300.48	
241	1.40	43	36	0.00	262.80	41.74	47.86	
242	1.50	35	18	0.00	278.22	38.45	52.62	
243	1.50	39	36	0.00	278.22	40.10	54.26	
244	1.40	36	36	0.00	262.80	38.86	44.99	
245	1.40	35	36	0.00	262.80	38.45	44.59	
246	1.40	35	36	0.00	262.80	38.45	44.59	
247	1.50	35	36	0.00	278.22	38.45	52.62	
248	1.50	36	36	0.00	278.22	38.86	53.03	
249	1.50	36	36	0.00	278.22	38.86	53.03	
250	1.40	49	18	0.00	262.80	44.22	50.31	
251	1.50	36	36	0.01	278.22	38.86	53.03	0.01

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
252	1.40	447	280	0.00	262.80	208.19	213.09	
253	0.90	2447	1224	0.02	185.69	1032.19	990.90	0.02
254	1.30	3952	2160	0.00	247.38	1652.25	1638.60	
255	1.50	979	403	0.00	278.22	427.38	438.72	
256	1.40	389	180	0.00	262.80	184.30	189.37	
257	1.40	220	180	0.02	262.80	114.67	120.25	0.01
258	1.40	4112	2160	0.06	262.80	1718.17	1712.08	0.03
259	1.60	1671	900	0.01	293.64	712.48	729.79	0.02
260	1.60	990	435	0.00	293.64	431.91	451.26	
261	1.50	873	435	0.00	278.22	383.70	395.37	
262	1.60	762	360	0.01	293.64	337.97	358.00	0.02
263	1.50	945	360	0.01	278.22	413.37	424.81	0.02
264	2.50	635	435	0.01	432.44	285.65	378.40	0.02
265	1.90	541	208	0.00	339.91	246.92	291.73	
266	2.00	537	290	0.00	355.33	245.27	298.13	
267	1.80	459	223	0.00	324.49	213.14	250.15	
268	2.00	500	288	0.00	355.33	230.03	283.00	
269	2.00	428	216	0.00	355.33	200.36	253.55	
270	1.60	1089	504	0.02	293.64	472.70	491.75	0.02
271	1.30	210	108	0.00	247.38	110.55	108.12	
272	1.40	45	36	0.00	262.80	42.57	48.68	
273	1.40	40	36	0.00	262.80	40.51	46.63	
274	1.50	47	36	0.00	278.22	43.39	57.53	
275	1.50	58	36	0.00	278.22	47.92	62.03	
276	1.50	39	36	0.00	278.22	40.10	54.26	
277	1.50	30	36	0.00	278.22	36.39	50.58	
278	1.50	38	36	0.00	278.22	39.68	53.85	
279	1.50	42	36	0.00	278.22	41.33	55.49	
280	1.60	40	36	0.00	293.64	40.51	62.71	
281	1.60	35	36	0.00	293.64	38.45	60.66	
282	1.60	37	36	0.00	293.64	39.27	61.48	
283	1.60	39	36	0.00	293.64	40.10	62.30	
284	1.60	150	108	0.00	293.64	85.83	107.70	
285	1.50	43	36	0.00	278.22	41.74	55.90	
286	1.40	36	54	0.00	262.80	38.86	44.99	
287	1.30	259	108	0.00	247.38	130.74	128.16	
288	1.50	37	36	0.00	278.22	39.27	53.44	
289	1.50	75	72	0.00	278.22	54.93	68.98	
290	1.40	40	18	0.00	262.80	40.51	46.63	
291	1.40	34	36	0.00	262.80	38.04	44.18	
292	1.50	30	36	0.00	278.22	36.39	50.58	
293	1.50	35	36	0.00	278.22	38.45	52.62	
294	1.50	35	36	0.00	278.22	38.45	52.62	
295	1.50	35	36	0.00	278.22	38.45	52.62	
296	1.50	34	36	0.00	278.22	38.04	52.21	
297	1.50	28	36	0.00	278.22	35.56	49.76	
298	1.50	34	36	0.00	278.22	38.04	52.21	
299	1.50	27	36	0.00	278.22	35.15	49.35	
300	1.50	19	36	0.00	278.22	31.86	46.08	
301	1.70	22	36	0.00	309.06	33.09	63.38	
302	1.70	22	36	0.00	309.06	33.09	63.38	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
303	1.80	15	36	0.00	324.49	30.21	68.56	
304	1.80	13	36	0.00	324.49	29.38	67.74	
305	1.80	15	36	0.00	324.49	30.21	68.56	
306	1.40	15	36	0.00	262.80	30.21	36.41	
307	0.59	574	144	0.00	137.89	260.52	199.93	
308	0.51	34	36	0.00	125.55	38.04	-27.36	
309	0.52	25	36	0.00	127.09	34.33	-30.24	
310	0.52	10	36	0.00	127.09	28.15	-36.37	
311	0.45	700	360	0.00	116.30	312.43	240.21	
312	1.20	30	36	0.00	231.96	36.39	26.46	
313	0.70	82	36	0.00	154.85	57.81	7.54	
314	1.50	105	72	0.00	278.22	67.29	81.25	
315	1.50	27	36	0.00	278.22	35.15	49.35	
316	1.20	23	36	0.00	231.96	33.50	23.60	
317	1.20	24	36	0.00	231.96	33.92	24.01	
318	1.10	16	36	0.00	216.54	30.62	12.70	
319	0.37	495	288	0.00	103.96	227.97	149.93	
320	0.38	602	230	0.00	105.50	272.05	194.50	
321	1.5	2010	360	0.01	278.22	852.15	860.40	0.02
322	1.1	700	360	0.00	216.54	312.43	292.46	
323	0.80	1165	360	0.00	170.27	504.01	458.53	
324	1.60	605	324	0.00	293.64	273.29	293.79	
325	0.90	573	180	0.00	185.69	260.10	224.44	
326	1.00	620	216	0.00	201.11	279.47	251.70	
327	0.80	751	252	0.00	170.27	333.44	289.20	
328	1.20	3500	360	0.00	231.96	1466.03	1445.69	
329	1.60	1400	864	0.00	293.64	600.83	618.95	
330	1.5	801	540	0.00	278.22	354.04	365.92	
331	1.2	718	270	0.00	231.96	319.84	307.86	
332	1.80	4000	1440	0.00	324.49	1672.03	1698.42	
333	1.90	2600	1080	0.00	339.91	1095.23	1133.86	
334	1.20	960	504	0.00	231.96	419.55	406.83	
335	1.20	551	324	0.00	231.96	251.04	239.55	
336	1.20	1257	360	0.00	231.96	541.91	528.31	
337	1.10	712	360	0.00	216.54	317.37	297.36	
338	1.10	607	360	0.00	216.54	274.11	254.42	
339	1.10	548	166	0.00	216.54	249.80	230.29	
340	1.10	520	180	0.00	216.54	238.27	218.84	
341	1.20	1840	828	0.00	231.96	782.11	766.75	
342	1.20	1000	432	0.00	231.96	436.03	423.19	
343	1.20	700	288	0.00	231.96	312.43	300.49	
344	1.10	671	288	0.00	216.54	300.48	280.60	
345	1.10	586	260	0.00	216.54	265.46	245.83	
346	1.00	544	216	0.00	201.11	248.16	220.61	
347	0.65	544	216	0.00	147.14	248.16	192.48	
348	1.00	524	216	0.00	201.11	239.92	212.43	
349	1.00	500	216	0.00	201.11	230.03	202.62	
350	1.00	500	216	0.00	201.11	230.03	202.62	
351	1.00	500	216	0.00	201.11	230.03	202.62	
352	0.67	450	108	0.00	150.22	209.43	155.64	
353	0.67	925	252	0.00	150.22	405.13	349.92	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
354	0.75	201	72	0.00	162.56	106.84	60.23	
355	1.00	191	108	0.01	201.11	102.72	76.24	0.01
356	1.2	167	144	0.01	231.96	92.83	82.50	0.01
357	1.40	1018	360	0.01	262.80	443.44	446.63	0.02
358	1.20	32	72	0.00	231.96	37.21	27.28	
359	1.40	24	72	0.00	262.80	33.92	40.09	
360	1.55	22	39	0.00	285.93	33.09	51.33	
361	1.20	558	252	0.00	231.96	253.92	242.42	
362	1.3	121	54	0.00	247.38	73.88	71.72	
363	2.00	30	18	0.01	355.33	36.39	90.77	0.01
364	1.40	33	36	0.00	262.80	37.62	43.77	
365	1.50	31	36	0.00	278.22	36.80	50.99	
366	1.30	36	18	0.00	247.38	38.86	36.96	
367	1.20	30	18	0.00	231.96	36.39	26.46	
368	1.20	30	18	0.00	231.96	36.39	26.46	
369	1.20	20	18	0.00	231.96	32.27	22.37	
370	1.20	15	18	0.00	231.96	30.21	20.33	
371	1.30	87	108	0.00	247.38	59.87	57.82	
372	1.10	40	36	0.01	216.54	40.51	22.52	0.01
373	1.10	36	18	0.00	216.54	38.86	20.88	
374	1.10	26	18	0.00	216.54	34.74	16.79	
375	1.10	21	18	0.00	216.54	32.68	14.75	
376	1.00	10	18	0.00	201.11	28.15	2.21	
377	1.10	91	18	0.00	216.54	61.52	43.38	
378	1.10	60	72	0.00	216.54	48.75	30.70	
379	1.10	34	18	0.00	216.54	38.04	20.06	
380	1.10	30	18	0.00	216.54	36.39	18.43	
381	1.10	79	36	0.00	216.54	56.58	38.47	
382	1.10	45	36	0.00	216.54	42.57	24.56	
383	1.10	40	36	0.00	216.54	40.51	22.52	
384	1.50	3200	900	0.01	278.22	1342.43	1347.11	0.02
385	1.60	1893	900	0.01	293.64	803.94	820.58	0.02
386	1.9	3754	1620	0.02	339.91	1570.68	1605.85	0.03
387	1.30	1970	900	0.01	247.38	835.67	827.96	0.02
388	2.00	4000	2800	0.01	355.33	1672.03	1714.50	0.03
389	1.80	3800	2800	0.02	324.49	1589.63	1616.62	0.03
390	1.40	1260	612	0.00	262.80	543.15	545.61	
391	2.10	981	720	0.00	370.75	428.20	487.77	
392	1.60	651	324	0.01	293.64	292.24	312.61	0.01
393	2.00	312	180	0.01	355.33	152.57	206.11	0.01
394	1.08	238	180	0.00	213.45	122.08	101.89	
395	1.70	254	126	0.00	309.06	128.68	158.27	
396	1.70	390	180	0.00	309.06	184.71	213.89	
397	1.50	450	180	0.00	278.22	209.43	222.36	
398	1.50	530	219	0.00	278.22	242.39	255.08	
399	1.60	715	288	0.00	293.64	318.61	338.78	
400	1.40	41	36	0.00	262.80	40.92	47.04	
401	1.50	35	18	0.00	278.22	38.45	52.62	
402	1.40	36	36	0.00	262.80	38.86	44.99	
403	1.40	38	36	0.00	262.80	39.68	45.81	
404	1.40	34	36	0.00	262.80	38.04	44.18	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
405	1.40	35	36	0.00	262.80	38.45	44.59	
406	1.50	35	36	0.00	278.22	38.45	52.62	
407	1.50	36	36	0.00	278.22	38.86	53.03	
408	1.50	36	36	0.00	278.22	38.86	53.03	
409	1.40	44	18	0.00	262.80	42.16	48.27	
410	1.50	36	36	0.01	278.22	38.86	53.03	0.01
411	1.70	1509	648	0.00	309.06	645.74	671.57	
412	1.50	2631	1224	0.00	278.22	1108.00	1114.39	
413	1.30	3170	2160	0.00	247.38	1330.07	1318.76	
414	1.50	853	396	0.00	278.22	375.46	387.19	
415	1.40	372	180	0.00	262.80	177.29	182.42	
416	1.40	220	180	0.00	262.80	114.67	120.25	
417	1.40	4216	2160	0.05	262.80	####	1754.61	0.03
418	1.60	1449	900	0.01	293.64	621.02	638.99	0.02
419	1.60	980	435	0.00	293.64	427.79	447.17	
420	1.50	850	435	0.00	278.22	374.23	385.96	
421	1.60	760	360	0.01	293.64	337.15	357.19	0.02
422	1.50	885	360	0.01	278.22	388.65	400.27	0.02
423	2.50	611	403	0.01	432.44	275.76	368.59	0.02
424	2.00	523	250	0.00	355.33	239.50	292.41	
425	2.00	544	290	0.00	355.33	248.16	300.99	
426	1.80	449	219	0.00	324.49	209.02	246.06	
427	2.10	550	288	0.00	370.75	250.63	311.49	
428	2.00	416	216	0.00	355.33	195.42	248.64	
429	1.20	1058	360	0.02	231.96	459.92	446.92	0.02
430	1.30	90	108	0.00	247.38	61.11	59.04	
431	1.40	45	36	0.00	262.80	42.57	48.68	
432	1.40	40	36	0.00	262.80	40.51	46.63	
433	1.50	42	36	0.00	278.22	41.33	55.49	
434	1.50	45	36	0.00	278.22	42.57	56.71	
435	1.50	40	36	0.00	278.22	40.51	54.67	
436	1.50	40	36	0.00	278.22	40.51	54.67	
437	1.60	39	36	0.00	293.64	40.10	62.30	
438	1.50	38	36	0.00	278.22	39.68	53.85	
439	1.60	40	36	0.00	293.64	40.51	62.71	
440	1.60	35	36	0.00	293.64	38.45	60.66	
441	1.60	35	36	0.00	293.64	38.45	60.66	
442	1.60	34	36	0.00	293.64	38.04	60.25	
443	1.60	517	234	0.01	293.64	237.03	257.80	0.01
444	1.50	42	36	0.00	278.22	41.33	55.49	
445	1.40	36	54	0.00	262.80	38.86	44.99	
446	1.30	500	216	0.00	247.38	230.03	226.73	
447	1.50	38	36	0.00	278.22	39.68	53.85	
448	1.50	59	36	0.00	278.22	48.34	62.44	
449	1.40	40	18	0.00	262.80	40.51	46.63	
450	1.40	33	36	0.00	262.80	37.62	43.77	
451	1.50	30	36	0.00	278.22	36.39	50.58	
452	1.50	34	36	0.00	278.22	38.04	52.21	
453	1.50	35	36	0.00	278.22	38.45	52.62	
454	1.50	35	36	0.00	278.22	38.45	52.62	
455	1.50	29	36	0.00	278.22	35.98	50.17	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
456	1.50	30	36	0.00	278.22	36.39	50.58	
457	1.50	30	36	0.00	278.22	36.39	50.58	
458	1.50	26	36	0.00	278.22	34.74	48.94	
459	1.50	19	36	0.00	278.22	31.86	46.08	
460	1.70	20	36	0.00	309.06	32.27	62.56	
461	1.70	22	36	0.00	309.06	33.09	63.38	
462	1.80	15	36	0.00	324.49	30.21	68.56	
463	1.80	13	36	0.00	324.49	29.38	67.74	
464	1.80	18	36	0.00	324.49	31.44	69.78	
465	1.40	15	36	0.00	262.80	30.21	36.41	
466	0.59	576	144	0.00	137.89	261.34	200.75	
467	0.51	34	36	0.00	125.55	38.04	-27.36	
468	0.52	27	36	0.00	127.09	35.15	-29.42	
469	0.52	10	36	0.00	127.09	28.15	-36.37	
470	0.47	147	108	0.00	119.38	84.59	15.64	
471	1.20	30	36	0.00	231.96	36.39	26.46	
472	0.70	50	36	0.00	154.85	44.63	-5.55	
473	1.50	30	36	0.00	278.22	36.39	50.58	
474	1.50	30	36	0.00	278.22	36.39	50.58	
475	1.10	28	36	0.00	216.54	35.56	17.61	
476	1.10	23	36	0.00	216.54	33.50	15.56	
477	1.10	14	36	0.00	216.54	29.80	11.88	
478	0.37	495	288	0.00	103.96	227.97	149.93	
479	0.38	602	230	0.00	105.50	272.05	194.50	
480	1.5	1396	360	0.01	278.22	599.18	609.27	0.02
481	1.1	700	360	0.00	216.54	312.43	292.46	
482	0.80	1150	360	0.00	170.27	497.83	452.39	
483	1.60	606	324	0.00	293.64	273.70	294.20	
484	0.90	581	180	0.00	185.69	263.40	227.71	
485	1.00	615	216	0.00	201.11	277.41	249.65	
486	0.80	731	252	0.00	170.27	325.20	281.02	
487	1.20	3500	360	0.00	231.96	1466.03	1445.69	
488	1.60	1385	864	0.00	293.64	594.65	612.81	
489	1.5	800	540	0.00	278.22	353.63	365.51	
490	1.3	725	270	0.00	247.38	322.73	318.76	
491	1.80	3750	1440	0.00	324.49	1569.03	1596.17	
492	1.20	2305	900	0.00	231.96	973.69	956.94	
493	1.20	900	504	0.00	231.96	394.83	382.29	
494	1.20	535	324	0.00	231.96	244.45	233.01	
495	1.20	1229	360	0.00	231.96	530.38	516.86	
496	1.10	736	360	0.00	216.54	327.26	307.18	
497	1.10	589	360	0.00	216.54	266.70	247.06	
498	1.10	547	166	0.00	216.54	249.39	229.88	
499	1.10	521	180	0.00	216.54	238.68	219.25	
500	1.20	1607	828	0.00	231.96	686.11	671.46	
501	1.20	1000	432	0.00	231.96	436.03	423.19	
502	1.20	700	288	0.00	231.96	312.43	300.49	
503	1.10	664	288	0.00	216.54	297.60	277.73	
504	1.10	583	260	0.00	216.54	264.22	244.60	
505	1.00	544	216	0.00	201.11	248.16	220.61	
506	0.65	537	216	0.00	147.14	245.27	189.62	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
507	1.00	533	216	0.00	201.11	243.62	216.12	
508	1.00	500	216	0.00	201.11	230.03	202.62	
509	1.00	500	216	0.00	201.11	230.03	202.62	
510	1.00	500	216	0.00	201.11	230.03	202.62	
511	0.67	451	108	0.00	150.22	209.84	156.05	
512	0.67	923	252	0.00	150.22	404.30	349.10	
513	0.75	108	36	0.00	162.56	68.52	22.20	
514	1.00	620	180	0.01	201.11	279.47	251.70	0.01
515	1.2	165	144	0.01	231.96	92.01	81.68	0.01
516	1.40	1001	360	0.01	262.80	436.44	439.68	0.02
517	1.20	31	72	0.00	231.96	36.80	26.87	
518	1.40	35	72	0.00	262.80	38.45	44.59	
519	1.55	22	39	0.00	285.93	33.09	51.33	
520	1.20	550	252	0.00	231.96	250.63	239.14	
521	1.3	121	54	0.00	247.38	73.88	71.72	
522	2.00	30	18	0.01	355.33	36.39	90.77	0.01
523	1.40	36	36	0.00	262.80	38.86	44.99	
524	1.50	30	36	0.00	278.22	36.39	50.58	
525	1.30	32	18	0.00	247.38	37.21	35.32	
526	1.20	29	18	0.00	231.96	35.98	26.06	
527	1.20	24	18	0.00	231.96	33.92	24.01	
528	1.20	20	18	0.00	231.96	32.27	22.37	
529	1.20	15	18	0.00	231.96	30.21	20.33	
530	1.30	60	108	0.00	247.38	48.75	46.77	
531	1.10	40	36	0.01	216.54	40.51	22.52	0.01
532	1.10	36	18	0.00	216.54	38.86	20.88	
533	1.10	26	18	0.00	216.54	34.74	16.79	
534	1.10	23	18	0.00	216.54	33.50	15.56	
535	1.00	12	18	0.00	201.11	28.97	3.03	
536	1.10	130	18	0.00	216.54	77.59	59.33	
537	1.10	53	72	0.00	216.54	45.86	27.83	
538	1.10	39	18	0.00	216.54	40.10	22.11	
539	1.10	35	18	0.00	216.54	38.45	20.47	
540	1.10	76	36	0.00	216.54	55.34	37.24	
541	1.10	45	36	0.00	216.54	42.57	24.56	
542	1.10	40	36	0.00	216.54	40.51	22.52	
543	1.50	3100	900	0.00	278.22	1301.23	1306.21	
544	1.60	1558	720	0.01	293.64	665.92	683.57	0.02
545	1.9	2780	1620	0.01	339.91	1169.39	1207.48	0.03
546	1.30	1825	900	0.01	247.38	775.93	768.66	0.02
547	1.90	4000	2800	0.01	339.91	1672.03	1706.46	0.03
548	1.80	4110	2800	0.03	324.49	1717.35	1743.41	0.03
549	1.40	1245	612	0.00	262.80	536.97	539.48	
550	2.10	931	720	0.00	370.75	407.60	467.32	
551	1.70	683	324	0.01	309.06	305.42	333.73	0.02
552	2.00	314	180	0.01	355.33	153.40	206.92	0.01
553	1.08	237	180	0.00	213.45	121.67	101.48	
554	1.70	264	126	0.00	309.06	132.80	162.36	
555	1.70	390	180	0.00	309.06	184.71	213.89	
556	1.50	450	180	0.00	278.22	209.43	222.36	
557	1.50	530	219	0.00	278.22	242.39	255.08	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
558	1.60	772	288	0.00	293.64	342.09	362.09	
559	1.40	40	36	0.00	262.80	40.51	46.63	
560	1.50	37	18	0.00	278.22	39.27	53.44	
561	1.40	35	36	0.00	262.80	38.45	44.59	
562	1.40	36	36	0.00	262.80	38.86	44.99	
563	1.40	35	36	0.00	262.80	38.45	44.59	
564	1.40	35	36	0.00	262.80	38.45	44.59	
565	1.50	35	36	0.00	278.22	38.45	52.62	
566	1.50	36	36	0.00	278.22	38.86	53.03	
567	1.50	36	36	0.00	278.22	38.86	53.03	
568	1.40	44	18	0.00	262.80	42.16	48.27	
569	1.50	35	36	0.01	278.22	38.45	52.62	0.01
570	1.60	1464	648	0.00	293.64	627.20	645.12	
571	1.40	2925	1620	0.01	262.80	1229.13	1226.60	0.03
572	1.30	2834	2160	0.00	247.38	1191.64	1181.34	
573	1.50	834	396	0.00	278.22	367.64	379.41	
574	1.40	363	180	0.00	262.80	173.58	178.74	
575	1.40	220	180	0.00	262.80	114.67	120.25	
576	1.40	4327	2160	0.04	262.80	1806.75	1800.01	0.03
577	1.60	1362	900	0.01	293.64	585.17	603.40	0.02
578	1.60	971	435	0.00	293.64	424.08	443.49	
579	1.50	852	435	0.00	278.22	375.05	386.78	
580	1.60	750	360	0.01	293.64	333.03	353.10	0.02
581	1.50	880	360	0.01	278.22	386.59	398.23	0.02
582	2.50	576	381	0.01	432.44	261.34	354.27	0.01
583	2.00	516	360	0.00	355.33	236.62	289.54	
584	2.00	529	290	0.00	355.33	241.98	294.86	
585	1.80	442	216	0.00	324.49	206.13	243.20	
586	2.10	580	288	0.00	370.75	262.99	323.76	
587	2.00	404	216	0.00	355.33	190.48	243.73	
588	1.20	1026	360	0.01	231.96	446.74	433.83	0.02
589	1.30	87	108	0.00	247.38	59.87	57.82	
590	1.40	45	36	0.00	262.80	42.57	48.68	
591	1.40	40	36	0.00	262.80	40.51	46.63	
592	1.50	39	36	0.00	278.22	40.10	54.26	
593	1.50	48	36	0.00	278.22	43.80	57.94	
594	1.50	42	36	0.00	278.22	41.33	55.49	
595	1.50	40	36	0.00	278.22	40.51	54.67	
596	1.60	38	36	0.00	293.64	39.68	61.89	
597	1.50	40	36	0.00	278.22	40.51	54.67	
598	1.60	40	36	0.00	293.64	40.51	62.71	
599	1.60	35	36	0.00	293.64	38.45	60.66	
600	1.60	36	36	0.00	293.64	38.86	61.07	
601	1.60	37	36	0.00	293.64	39.27	61.48	
602	1.60	525	252	0.01	293.64	240.33	261.07	0.01
603	1.50	42	36	0.00	278.22	41.33	55.49	
604	1.40	33	54	0.00	262.80	37.62	43.77	
605	1.30	568	216	0.00	247.38	258.04	254.54	
606	1.50	38	36	0.00	278.22	39.68	53.85	
607	1.50	50	36	0.00	278.22	44.63	58.76	
608	1.40	37	18	0.00	262.80	39.27	45.40	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
					L/jam	L/jam	L/jam	
609	1.40	34	36	0.00	262.80	38.04	44.18	
610	1.50	34	36	0.00	278.22	38.04	52.21	
611	1.50	36	36	0.00	278.22	38.86	53.03	
612	1.50	35	36	0.00	278.22	38.45	52.62	
613	1.50	35	36	0.00	278.22	38.45	52.62	
614	1.50	30	36	0.00	278.22	36.39	50.58	
615	1.50	32	36	0.00	278.22	37.21	51.40	
616	1.50	30	36	0.00	278.22	36.39	50.58	
617	1.50	24	36	0.00	278.22	33.92	48.12	
618	1.50	22	36	0.00	278.22	33.09	47.31	
619	1.70	19	36	0.00	309.06	31.86	62.16	
620	1.70	22	36	0.00	309.06	33.09	63.38	
621	1.80	15	36	0.00	324.49	30.21	68.56	
622	1.80	13	36	0.00	324.49	29.38	67.74	
623	1.80	17	36	0.00	324.49	31.03	69.38	
624	1.40	15	36	0.00	262.80	30.21	36.41	
625	0.59	559	144	0.00	137.89	254.34	193.79	
626	0.51	34	36	0.00	125.55	38.04	-27.36	
627	0.52	25	36	0.00	127.09	34.33	-30.24	
628	0.52	10	36	0.00	127.09	28.15	-36.37	
629	0.45	57	72	0.00	116.30	47.51	-22.78	
630	1.20	30	36	0.00	231.96	36.39	26.46	
631	0.70	36	18	0.00	154.85	38.86	-11.27	
632	1.50	30	36	0.00	278.22	36.39	50.58	
633	1.50	25	36	0.00	278.22	34.33	48.53	
634	1.10	24	36	0.00	216.54	33.92	15.97	
635	1.20	20	36	0.00	231.96	32.27	22.37	
636	1.10	14	36	0.00	216.54	29.80	11.88	
637	0.36	465	216	0.00	102.42	215.61	136.86	
638	0.37	537	230	0.00	103.96	245.27	167.11	
639	1.00	1157	360	0.00	201.11	500.71	471.33	
640	0.9	817	288	0.00	185.69	360.63	324.23	
641	0.80	1030	360	0.00	170.27	448.39	403.31	
642	0.90	560	180	0.00	185.69	254.75	219.12	
643	0.90	580	180	0.00	185.69	262.99	227.30	
644	1.00	637	216	0.00	201.11	286.47	258.65	
645	0.80	731	252	0.00	170.27	325.20	281.02	
646	1.10	3500	720	0.00	216.54	1466.03	1437.66	
647	1.70	1157	864	0.00	309.06	500.71	527.60	
648	1.5	777	468	0.00	278.22	344.15	356.10	
649	1.2	688	270	0.00	231.96	307.48	295.59	
650	1.20	2843	1206	0.00	231.96	1195.34	1176.98	
651	1.20	2016	900	0.00	231.96	854.62	838.74	
652	1.25	850	252	0.01	239.67	374.23	365.86	0.02
653	1.10	599	324	0.00	216.54	270.82	251.15	
654	1.10	1058	360	0.00	216.54	459.92	438.88	
655	1.10	720	360	0.00	216.54	320.67	300.64	
656	1.10	571	324	0.00	216.54	259.28	239.70	
657	1.10	540	166	0.00	216.54	246.51	227.02	
658	1.10	522	180	0.00	216.54	239.09	219.65	
659	1.20	1506	828	0.00	231.96	644.50	630.15	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
660	1.20	900	360	0.00	231.96	394.83	382.29	
661	1.10	684	288	0.00	216.54	305.84	285.91	
662	1.10	660	288	0.00	216.54	295.95	276.10	
663	1.10	586	260	0.00	216.54	265.46	245.83	
664	1.00	545	216	0.00	201.11	248.57	221.02	
665	1.00	545	216	0.00	201.11	248.57	221.02	
666	1.00	330	216	0.00	201.11	159.99	133.09	
667	1.00	517	216	0.00	201.11	237.03	209.57	
668	0.95	492	216	0.00	193.40	226.73	195.33	
669	0.67	450	108	0.00	150.22	209.43	155.64	
670	0.67	450	108	0.00	150.22	209.43	155.64	
671	0.68	851	144	0.01	151.77	374.64	320.46	0.01
672	0.80	71	36	0.00	170.27	53.28	11.08	
673	1.00	725	180	0.00	201.11	322.73	294.64	
674	1.20	82	72	0.00	231.96	57.81	47.73	
675	1.20	850	288	0.00	231.96	374.23	361.84	
676	1.40	35	72	0.00	262.80	38.45	44.59	
677	1.40	35	72	0.00	262.80	38.45	44.59	
678	1.40	24	18	0.00	262.80	33.92	40.09	
679	1.20	510	252	0.00	231.96	234.15	222.78	
680	1.20	50	54	0.00	231.96	44.63	34.64	
681	1.80	30	18	0.00	324.49	36.39	74.69	
682	1.40	30	36	0.00	262.80	36.39	42.54	
683	1.50	30	18	0.01	278.22	36.39	50.58	0.01
684	1.30	34	18	0.00	247.38	38.04	36.14	
685	1.20	30	18	0.00	231.96	36.39	26.46	
686	1.20	25	18	0.00	231.96	34.33	24.42	
687	1.20	26	18	0.00	231.96	34.74	24.83	
688	1.20	12	18	0.00	231.96	28.97	19.10	
689	1.30	40	36	0.00	247.38	40.51	38.59	
690	1.10	40	18	0.00	216.54	40.51	22.52	
691	1.10	36	18	0.00	216.54	38.86	20.88	
692	1.10	26	18	0.00	216.54	34.74	16.79	
693	1.10	15	18	0.00	216.54	30.21	12.29	
694	1.00	12	18	0.00	201.11	28.97	3.03	
695	1.20	145	36	0.00	231.96	83.77	73.50	
696	1.10	40	72	0.01	216.54	40.51	22.52	0.01
697	1.10	39	18	0.00	216.54	40.10	22.11	
698	1.10	45	18	0.00	216.54	42.57	24.56	
699	1.10	70	36	0.00	216.54	52.87	34.79	
700	1.10	38	36	0.01	216.54	39.68	21.70	0.01
701	1.10	40	36	0.00	216.54	40.51	22.52	
702	1.10	2315	612	0.00	216.54	977.81	952.99	
703	1.60	1468	720	0.00	293.64	628.84	646.76	
704	1.30	2703	1008	0.00	247.38	1137.66	1127.76	
705	1.40	1567	720	0.05	262.80	669.63	671.17	0.02
706	1.80	4130	1008	0.06	324.49	1725.59	1751.59	0.03
707	1.70	4011	2046	0.00	309.06	1676.56	1694.88	
708	1.40	940	363	0.00	262.80	411.31	414.73	
709	2.00	930	540	0.00	355.33	407.19	458.87	
710	1.60	576	252	0.00	293.64	261.34	281.93	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
					L/jam	L/jam	L/jam	
711	2.00	331	180	0.01	355.33	160.40	213.88	0.01
712	1.90	236	180	0.00	339.91	121.26	166.98	
713	1.80	300	126	0.00	324.49	147.63	185.12	
714	1.40	366	180	0.00	262.80	174.82	179.96	
715	1.50	504	208	0.04	278.22	231.68	244.44	0.01
716	1.50	503	216	0.00	278.22	231.26	244.04	
717	1.50	764	288	0.01	278.22	338.80	350.78	0.02
718	1.40	36	36	0.00	262.80	38.86	44.99	
719	1.50	40	36	0.00	278.22	40.51	54.67	
720	1.40	36	36	0.00	262.80	38.86	44.99	
721	1.40	37	18	0.00	262.80	39.27	45.40	
722	1.40	36	36	0.00	262.80	38.86	44.99	
723	1.40	36	36	0.00	262.80	38.86	44.99	
724	1.50	36	36	0.00	278.22	38.86	53.03	
725	1.50	36	36	0.00	278.22	38.86	53.03	
726	1.40	36	36	0.02	262.80	38.86	44.99	0.01
727	1.60	38	36	0.01	293.64	39.68	61.89	0.01
728	1.60	38	36	0.00	293.64	39.68	61.89	
729	1.80	4112	2160	0.04	324.49	1718.17	1744.23	0.03
730	1.35	3100	1620	0.01	255.09	1301.23	1294.15	0.03
731	1.50	2500	1080	0.01	278.22	1054.03	1060.81	0.02
732	1.40	785	360	0.01	262.80	347.45	351.34	0.02
733	1.40	330	180	0.00	262.80	159.99	165.24	
734	1.40	200	72	0.00	262.80	106.43	112.07	
735	1.90	4520	2160	0.49	339.91	####	1919.14	0.03
736	1.60	1326	900	0.01	293.64	570.34	588.68	0.02
737	1.50	971	435	0.01	278.22	424.08	435.45	0.02
738	1.50	835	360	0.00	278.22	368.05	379.82	
739	1.50	708	360	0.01	278.22	315.72	327.88	0.02
740	1.90	840	440	0.01	339.91	370.11	414.02	0.02
741	2.00	704	396	0.00	355.33	314.08	366.43	
742	2.00	501	368	0.00	355.33	230.44	283.41	
743	2.00	512	280	0.00	355.33	234.97	287.91	
744	1.80	446	288	0.00	324.49	207.78	244.84	
745	2.10	546	316	0.06	370.75	248.98	309.85	0.01
746	2.00	398	228	0.00	355.33	188.00	241.28	
747	1.20	967	360	0.01	231.96	422.43	409.70	0.02
748	1.30	48	72	0.00	247.38	43.80	41.86	
749	1.40	40	36	0.00	262.80	40.51	46.63	
750	1.40	37	36	0.00	262.80	39.27	45.40	
751	1.50	45	36	0.00	278.22	42.57	56.71	
752	1.50	45	36	0.00	278.22	42.57	56.71	
753	1.50	41	36	0.00	278.22	40.92	55.08	
754	1.50	40	36	0.00	278.22	40.51	54.67	
755	1.60	50	36	0.01	293.64	44.63	66.80	0.01
756	1.60	40	36	0.00	293.64	40.51	62.71	
757	1.60	37	36	0.00	293.64	39.27	61.48	
758	1.60	37	36	0.00	293.64	39.27	61.48	
759	1.60	35	36	0.00	293.64	38.45	60.66	
760	1.60	36	36	0.00	293.64	38.86	61.07	
761	1.50	542	252	0.00	278.22	247.33	259.99	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
762	1.50	42	54	0.00	278.22	41.33	55.49	
763	1.40	33	36	0.00	262.80	37.62	43.77	
764	1.30	573	216	0.00	247.38	260.10	256.59	
765	1.50	35	36	0.00	278.22	38.45	52.62	
766	1.50	50	36	0.00	278.22	44.63	58.76	
767	1.40	34	18	0.00	262.80	38.04	44.18	
768	1.40	34	36	0.00	262.80	38.04	44.18	
769	1.50	36	36	0.00	278.22	38.86	53.03	
770	1.50	36	36	0.02	278.22	38.86	53.03	0.01
771	1.50	35	36	0.00	278.22	38.45	52.62	
772	1.50	33	36	0.00	278.22	37.62	51.81	
773	1.50	30	36	0.00	278.22	36.39	50.58	
774	1.50	30	36	0.00	278.22	36.39	50.58	
775	1.50	26	36	0.00	278.22	34.74	48.94	
776	1.70	25	36	0.00	309.06	34.33	64.61	
777	1.50	20	36	0.00	278.22	32.27	46.49	
778	1.70	20	36	0.00	309.06	32.27	62.56	
779	1.70	22	36	0.00	309.06	33.09	63.38	
780	1.80	14	36	0.00	324.49	29.80	68.15	
781	1.80	25	36	0.00	324.49	34.33	72.65	
782	1.40	20	36	0.00	262.80	32.27	38.45	
783	1.30	14	36	0.00	247.38	29.80	27.96	
784	0.55	467	108	0.00	131.72	216.43	152.95	
785	0.51	31	108	0.00	125.55	36.80	-28.59	
786	0.52	25	36	0.00	127.09	34.33	-30.24	
787	0.53	10	36	0.00	128.63	28.15	-35.57	
788	0.48	31	36	0.00	120.92	36.80	-31.00	
789	1.10	25	36	0.00	216.54	34.33	16.38	
790	0.70	36	36	0.00	154.85	38.86	-11.27	
791	1.40	36	36	0.00	262.80	38.86	44.99	
792	1.20	35	36	0.00	231.96	38.45	28.51	
793	1.10	30	36	0.00	216.54	36.39	18.43	
794	1.10	22	36	0.00	216.54	33.09	15.15	
795	1.10	16	36	0.00	216.54	30.62	12.70	
796	0.37	501	216	0.00	103.96	230.44	152.39	
797	0.51	1200	230	0.00	125.55	518.43	449.53	
798	1.00	910	360	0.00	201.11	398.95	370.31	
799	1.00	1070	360	0.00	201.11	464.87	435.75	
800	0.80	876	360	0.00	170.27	384.94	340.33	
801	0.90	572	180	0.00	185.69	259.69	224.03	
802	0.90	760	216	0.00	185.69	337.15	300.92	
803	1.20	677	268	0.00	231.96	302.95	291.09	
804	0.80	731	252	0.00	170.27	325.20	281.02	
805	1.10	4013	720	0.00	216.54	1677.38	1647.47	
806	1.70	1171	540	0.00	309.06	506.48	533.32	
807	1.5	706	468	0.00	278.22	314.90	327.06	
808	1.2	680	270	0.00	231.96	304.19	292.31	
809	1.20	2507	1206	0.00	231.96	1056.91	1039.56	
810	1.20	1987	828	0.00	231.96	842.67	826.88	
811	1.25	850	252	0.01	239.67	374.23	365.86	0.02
812	1.10	703	360	0.00	216.54	313.66	293.68	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
					L/jam	L/jam	L/jam	
ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm	
813	1.10	983	360	0.00	216.54	429.02	408.20	
814	1.10	710	360	0.00	216.54	316.55	296.55	
815	1.10	582	324	0.00	216.54	263.81	244.19	
816	1.10	540	166	0.00	216.54	246.51	227.02	
817	1.10	522	180	0.00	216.54	239.09	219.65	
818	1.20	1410	828	0.00	231.96	604.95	590.88	
819	1.20	900	360	0.00	231.96	394.83	382.29	
820	1.10	681	288	0.00	216.54	304.60	284.69	
821	1.10	650	288	0.00	216.54	291.83	272.01	
822	1.10	586	260	0.00	216.54	265.46	245.83	
823	1.00	545	216	0.00	201.11	248.57	221.02	
824	1.00	548	216	0.00	201.11	249.80	222.25	
825	1.00	330	216	0.00	201.11	159.99	133.09	
826	1.00	521	216	0.00	201.11	238.68	211.21	
827	0.95	479	216	0.00	193.40	221.38	190.01	
828	0.67	450	108	0.00	150.22	209.43	155.64	
829	0.67	450	108	0.00	150.22	209.43	155.64	
830	0.65	830	144	0.00	147.14	365.99	309.46	
831	0.80	71	36	0.00	170.27	53.28	11.08	
832	1.40	1210	360	0.00	262.80	522.55	525.16	
833	1.20	42	72	0.00	231.96	41.33	31.37	
834	1.30	700	288	0.00	247.38	312.43	308.53	
835	1.40	35	72	0.00	262.80	38.45	44.59	
836	1.40	35	72	0.00	262.80	38.45	44.59	
837	1.40	24	18	0.00	262.80	33.92	40.09	
838	1.20	480	252	0.00	231.96	221.79	210.51	
839	1.20	50	54	0.00	231.96	44.63	34.64	
840	1.80	35	18	0.00	324.49	38.45	76.74	
841	1.40	30	36	0.00	262.80	36.39	42.54	
842	1.50	30	18	0.02	278.22	36.39	50.58	0.01
843	1.30	33	18	0.00	247.38	37.62	35.73	
844	1.20	35	18	0.01	231.96	38.45	28.51	0.01
845	1.20	26	18	0.00	231.96	34.74	24.83	
846	1.20	21	18	0.00	231.96	32.68	22.78	
847	1.20	12	18	0.00	231.96	28.97	19.10	
848	1.30	45	36	0.00	247.38	42.57	40.64	
849	1.10	35	18	0.00	216.54	38.45	20.47	
850	1.10	36	18	0.00	216.54	38.86	20.88	
851	1.10	26	18	0.00	216.54	34.74	16.79	
852	1.10	20	18	0.01	216.54	32.27	14.34	0.01
853	1.00	10	18	0.00	201.11	28.15	2.21	
854	1.20	408	72	0.00	231.96	192.12	181.07	
855	1.10	45	72	0.01	216.54	42.57	24.56	0.01
856	1.10	43	18	0.00	216.54	41.74	23.74	
857	1.10	44	18	0.00	216.54	42.16	24.15	
858	1.10	70	36	0.00	216.54	52.87	34.79	
859	1.10	39	36	0.01	216.54	40.10	22.11	0.01
860	1.10	38	36	0.00	216.54	39.68	21.70	
861	1.10	1978	612	0.00	216.54	838.96	815.16	
862	1.60	1390	720	0.00	293.64	596.71	614.86	
863	1.30	2340	1008	0.00	247.38	988.11	979.29	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
864	1.40	1425	720	0.00	262.80	611.13	613.10	
865	1.70	4010	1008	0.02	309.06	1676.15	1694.47	0.03
866	1.50	3439	1526	0.00	278.22	1440.90	1444.86	
867	1.40	1096	460	0.00	262.80	475.58	478.53	
868	2.00	850	540	0.00	355.33	374.23	426.15	
869	1.70	507	252	0.01	309.06	232.91	261.75	0.01
870	1.90	324	180	0.01	339.91	157.52	202.98	0.01
871	1.90	233	180	0.00	339.91	120.02	165.76	
872	1.80	332	126	0.00	324.49	160.81	198.21	
873	1.40	363	180	0.00	262.80	173.58	178.74	
874	1.50	519	208	0.00	278.22	237.86	250.58	
875	1.50	496	216	0.00	278.22	228.38	241.17	
876	1.50	760	288	0.01	278.22	337.15	349.15	0.02
877	1.40	36	36	0.00	262.80	38.86	44.99	
878	1.50	38	36	0.00	278.22	39.68	53.85	
879	1.40	38	36	0.00	262.80	39.68	45.81	
880	1.40	37	18	0.00	262.80	39.27	45.40	
881	1.40	38	36	0.00	262.80	39.68	45.81	
882	1.40	37	36	0.00	262.80	39.27	45.40	
883	1.50	36	36	0.00	278.22	38.86	53.03	
884	1.50	36	36	0.00	278.22	38.86	53.03	
885	1.40	44	54	0.00	262.80	42.16	48.27	
886	1.60	38	36	0.01	293.64	39.68	61.89	0.01
887	1.60	38	36	0.00	293.64	39.68	61.89	
888	1.80	4100	2160	0.01	324.49	1713.23	1739.32	0.03
889	1.35	2410	1080	0.00	255.09	1016.95	1011.94	
890	1.50	2112	1080	0.01	278.22	894.17	902.12	0.02
891	1.40	760	360	0.00	262.80	337.15	341.11	
892	1.40	310	180	0.00	262.80	151.75	157.06	
893	1.40	200	72	0.00	262.80	106.43	112.07	
894	1.90	4411	2160	0.02	339.91	1841.36	1874.56	0.03
895	1.60	11235	900	0.01	293.64	4652.85	4641.46	0.04
896	1.50	955	435	0.00	278.22	417.49	428.90	
897	1.50	835	354	0.00	278.22	368.05	379.82	
898	1.50	679	360	0.01	278.22	303.78	316.02	0.02
899	2.10	770	440	0.01	370.75	341.27	401.47	0.02
900	2.00	692	396	0.00	355.33	309.13	361.53	
901	2.00	482	288	0.00	355.33	222.61	275.64	
902	2.00	510	280	0.00	355.33	234.15	287.09	
903	1.80	445	288	0.00	324.49	207.37	244.43	
904	2.10	536	309	0.00	370.75	244.86	305.76	
905	2.00	390	224	0.00	355.33	184.71	238.01	
906	1.20	935	360	0.01	231.96	409.25	396.61	0.02
907	1.30	40	36	0.00	247.38	40.51	38.59	
908	1.40	38	36	0.00	262.80	39.68	45.81	
909	1.40	41	36	0.00	262.80	40.92	47.04	
910	1.50	45	36	0.00	278.22	42.57	56.71	
911	1.50	45	36	0.00	278.22	42.57	56.71	
912	1.50	43	36	0.00	278.22	41.74	55.90	
913	1.50	40	36	0.00	278.22	40.51	54.67	
914	1.60	42	36	0.01	293.64	41.33	63.52	0.01

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
					L/jam	L/jam	L/jam	
915	1.60	43	36	0.00	293.64	41.74	63.93	
916	1.60	39	36	0.00	293.64	40.10	62.30	
917	1.60	39	36	0.00	293.64	40.10	62.30	
918	1.60	35	36	0.00	293.64	38.45	60.66	
919	1.60	37	36	0.00	293.64	39.27	61.48	
920	1.50	540	252	0.00	278.22	246.51	259.17	
921	1.50	38	54	0.00	278.22	39.68	53.85	
922	1.40	33	36	0.00	262.80	37.62	43.77	
923	1.30	626	252	0.00	247.38	281.94	278.27	
924	1.50	35	36	0.00	278.22	38.45	52.62	
925	1.50	50	36	0.00	278.22	44.63	58.76	
926	1.40	36	18	0.00	262.80	38.86	44.99	
927	1.40	37	36	0.00	262.80	39.27	45.40	
928	1.50	34	36	0.00	278.22	38.04	52.21	
929	1.50	36	36	0.02	278.22	38.86	53.03	0.01
930	1.50	35	36	0.00	278.22	38.45	52.62	
931	1.50	35	36	0.00	278.22	38.45	52.62	
932	1.50	30	36	0.00	278.22	36.39	50.58	
933	1.50	30	36	0.00	278.22	36.39	50.58	
934	1.50	28	36	0.00	278.22	35.56	49.76	
935	1.70	26	36	0.01	309.06	34.74	65.02	0.01
936	1.50	22	36	0.00	278.22	33.09	47.31	
937	1.70	21	36	0.00	309.06	32.68	62.97	
938	1.70	22	36	0.00	309.06	33.09	63.38	
939	1.80	12	36	0.00	324.49	28.97	67.33	
940	1.80	25	36	0.00	324.49	34.33	72.65	
941	1.40	20	36	0.00	262.80	32.27	38.45	
942	1.30	14	36	0.00	247.38	29.80	27.96	
943	0.55	458	108	0.00	131.72	212.72	149.27	
944	0.51	31	108	0.00	125.55	36.80	-28.59	
945	0.51	25	36	0.00	125.55	34.33	-31.04	
946	0.53	9	36	0.00	128.63	27.74	-35.98	
947	0.48	34	36	0.00	120.92	38.04	-29.77	
948	1.10	27	36	0.00	216.54	35.15	17.20	
949	0.70	36	36	0.00	154.85	38.86	-11.27	
950	1.40	34	36	0.00	262.80	38.04	44.18	
951	1.20	35	36	0.00	231.96	38.45	28.51	
952	1.10	30	36	0.00	216.54	36.39	18.43	
953	1.10	21	36	0.00	216.54	32.68	14.75	
954	1.10	14	36	0.00	216.54	29.80	11.88	
955	0.39	553	216	0.00	107.04	251.86	175.26	
956	1.2	3700	360	0.03	231.96	1548.43	1527.49	0.02
957	1.00	905	360	0.00	201.11	396.89	368.26	
958	1.00	970	360	0.00	201.11	423.67	394.85	
959	0.80	835	360	0.00	170.27	368.05	323.56	
960	0.90	556	180	0.00	185.69	253.10	217.48	
961	0.90	794	216	0.00	185.69	351.16	314.83	
962	1.20	646	268	0.00	231.96	290.18	278.41	
963	0.80	731	252	0.00	170.27	325.20	281.02	
964	1.10	4115	720	0.00	216.54	1719.41	1689.19	
965	1.70	1155	540	0.00	309.06	499.89	526.78	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
966	1.5	951	468	0.00	278.22	415.84	427.27	
967	1.8	2850	1757	0.00	324.49	1198.23	1228.07	
968	1.10	2341	900	0.00	216.54	988.52	963.63	
969	1.10	1934	828	0.00	216.54	820.84	797.16	
970	1.20	810	252	0.01	231.96	357.75	345.48	0.02
971	1.10	956	360	0.00	216.54	417.90	397.16	
972	1.10	907	360	0.00	216.54	397.71	377.12	
973	1.10	700	360	0.00	216.54	312.43	292.46	
974	1.10	564	324	0.00	216.54	256.40	236.83	
975	1.10	540	166	0.00	216.54	246.51	227.02	
976	1.10	522	180	0.00	216.54	239.09	219.65	
977	1.20	1347	828	0.00	231.96	578.99	565.12	
978	1.20	900	360	0.00	231.96	394.83	382.29	
979	1.10	670	288	0.00	216.54	300.07	280.19	
980	1.10	710	288	0.00	216.54	316.55	296.55	
981	1.10	586	260	0.00	216.54	265.46	245.83	
982	1.00	545	216	0.00	201.11	248.57	221.02	
983	1.00	545	216	0.00	201.11	248.57	221.02	
984	1.00	320	216	0.00	201.11	155.87	129.00	
985	1.00	521	216	0.00	201.11	238.68	211.21	
986	0.95	480	216	0.00	193.40	221.79	190.42	
987	0.67	450	108	0.00	150.22	209.43	155.64	
988	0.67	450	108	0.00	150.22	209.43	155.64	
989	0.65	810	144	0.00	147.14	357.75	301.28	
990	0.80	55	36	0.00	170.27	46.69	4.54	
991	1.40	1230	360	0.00	262.80	530.79	533.34	
992	1.40	1078	360	0.00	262.80	468.16	471.17	
993	1.00	450	126	0.00	201.11	209.43	182.17	
994	1.40	35	72	0.00	262.80	38.45	44.59	
995	1.40	35	72	0.00	262.80	38.45	44.59	
996	1.40	24	18	0.00	262.80	33.92	40.09	
997	1.20	390	252	0.00	231.96	184.71	173.70	
998	1.20	50	54	0.00	231.96	44.63	34.64	
999	1.70	40	18	0.00	309.06	40.51	70.74	
1000	1.40	30	36	0.00	262.80	36.39	42.54	
1001	1.50	30	18	0.02	278.22	36.39	50.58	0.01
1002	1.30	33	18	0.00	247.38	37.62	35.73	
1003	1.20	32	18	0.01	231.96	37.21	27.28	0.01
1004	1.20	26	18	0.00	231.96	34.74	24.83	
1005	1.20	20	18	0.00	231.96	32.27	22.37	
1006	1.20	12	18	0.00	231.96	28.97	19.10	
1007	1.30	45	36	0.00	247.38	42.57	40.64	
1008	1.10	37	18	0.00	216.54	39.27	21.29	
1009	1.10	36	18	0.00	216.54	38.86	20.88	
1010	1.10	26	18	0.00	216.54	34.74	16.79	
1011	1.10	27	18	0.00	216.54	35.15	17.20	
1012	1.00	9	18	0.00	201.11	27.74	1.80	
1013	1.20	355	72	0.00	231.96	170.29	159.39	
1014	1.10	45	72	0.01	216.54	42.57	24.56	0.01
1015	1.10	40	18	0.00	216.54	40.51	22.52	
1016	1.10	57	36	0.01	216.54	47.51	29.47	0.01

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
1017	1.10	70	36	0.00	216.54	52.87	34.79	
1018	1.10	44	36	0.01	216.54	42.16	24.15	0.01
1019	1.10	39	36	0.00	216.54	40.10	22.11	
1020	1.10	1753	612	0.00	216.54	746.26	723.13	
1021	1.60	1330	720	0.00	293.64	571.99	590.32	
1022	1.30	1970	720	0.00	247.38	835.67	827.96	
1023	1.40	1349	720	0.00	262.80	579.82	582.01	
1024	1.70	3901	1008	0.01	309.06	1631.24	1649.89	0.03
1025	1.50	2745	1202	0.00	278.22	1154.97	1161.01	
1026	1.40	1161	486	0.00	262.80	502.36	505.12	
1027	2.00	830	540	0.00	355.33	365.99	417.97	
1028	1.70	493	252	0.01	309.06	227.14	256.02	0.01
1029	1.90	299	180	0.01	339.91	147.22	192.75	0.01
1030	1.90	228	180	0.00	339.91	117.96	163.71	
1031	1.80	335	126	0.00	324.49	162.05	199.44	
1032	1.40	360	180	0.00	262.80	172.35	177.51	
1033	1.60	520	230	0.00	293.64	238.27	259.03	
1034	1.50	522	288	0.00	278.22	239.09	251.81	
1035	1.50	230	108	0.01	278.22	118.79	132.38	0.01
1036	1.40	44	36	0.00	262.80	42.16	48.27	
1037	1.50	40	36	0.00	278.22	40.51	54.67	
1038	1.40	39	36	0.00	262.80	40.10	46.22	
1039	1.40	38	18	0.00	262.80	39.68	45.81	
1040	1.40	37	36	0.00	262.80	39.27	45.40	
1041	1.40	36	36	0.00	262.80	38.86	44.99	
1042	1.50	36	36	0.00	278.22	38.86	53.03	
1043	1.50	36	36	0.00	278.22	38.86	53.03	
1044	1.40	1500	540	0.01	262.80	642.03	643.77	0.02
1045	1.60	39	36	0.01	293.64	40.10	62.30	0.01
1046	1.60	37	36	0.00	293.64	39.27	61.48	
1047	1.80	4018	2160	0.01	324.49	1679.44	1705.78	0.03
1048	1.60	3260	1800	0.01	293.64	1367.15	1379.69	0.03
1049	1.40	1965	828	0.01	262.80	833.61	833.96	0.02
1050	1.40	563	360	0.00	262.80	255.98	260.54	
1051	1.40	290	180	0.00	262.80	143.51	148.88	
1052	1.40	190	72	0.00	262.80	102.31	107.98	
1053	1.80	4110	2160	0.01	324.49	1717.35	1743.41	0.03
1054	1.60	1215	900	0.01	293.64	524.61	543.28	0.02
1055	1.50	950	435	0.00	278.22	415.43	426.86	
1056	1.50	835	348	0.00	278.22	368.05	379.82	
1057	1.50	663	360	0.00	278.22	297.18	309.48	
1058	2.40	770	440	0.01	417.01	341.27	425.58	0.02
1059	2.00	680	391	0.00	355.33	304.19	356.62	
1060	2.00	480	288	0.00	355.33	221.79	274.82	
1061	1.90	490	280	0.00	339.91	225.91	270.87	
1062	1.80	445	288	0.00	324.49	207.37	244.43	
1063	2.00	514	280	0.00	355.33	235.80	288.72	
1064	2.00	388	220	0.00	355.33	183.88	237.19	
1065	1.20	917	360	0.00	231.96	401.83	389.25	
1066	1.30	42	36	0.00	247.38	41.33	39.41	
1067	1.40	40	36	0.00	262.80	40.51	46.63	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
1068	1.60	84	54	0.00	293.64	58.64	80.70	
1069	1.50	45	36	0.00	278.22	42.57	56.71	
1070	1.50	45	36	0.00	278.22	42.57	56.71	
1071	1.50	45	36	0.00	278.22	42.57	56.71	
1072	1.50	45	36	0.00	278.22	42.57	56.71	
1073	1.60	45	36	0.01	293.64	42.57	64.75	0.01
1074	1.60	42	36	0.00	293.64	41.33	63.52	
1075	1.60	38	36	0.00	293.64	39.68	61.89	
1076	1.60	39	36	0.00	293.64	40.10	62.30	
1077	1.60	35	36	0.00	293.64	38.45	60.66	
1078	1.60	38	36	0.00	293.64	39.68	61.89	
1079	1.50	538	252	0.00	278.22	245.68	258.35	
1080	1.50	35	54	0.00	278.22	38.45	52.62	
1081	1.40	35	36	0.00	262.80	38.45	44.59	
1082	1.30	625	252	0.00	247.38	281.53	277.86	
1083	1.50	35	36	0.00	278.22	38.45	52.62	
1084	1.50	75	36	0.00	278.22	54.93	68.98	
1085	1.40	36	18	0.00	262.80	38.86	44.99	
1086	1.50	38	36	0.00	278.22	39.68	53.85	
1087	1.50	35	36	0.00	278.22	38.45	52.62	
1088	1.50	36	36	0.02	278.22	38.86	53.03	0.01
1089	1.50	35	36	0.00	278.22	38.45	52.62	
1090	1.50	34	36	0.00	278.22	38.04	52.21	
1091	1.50	30	36	0.00	278.22	36.39	50.58	
1092	1.50	30	36	0.00	278.22	36.39	50.58	
1093	1.50	27	36	0.01	278.22	35.15	49.35	0.01
1094	1.70	24	36	0.01	309.06	33.92	64.20	0.01
1095	1.50	20	36	0.00	278.22	32.27	46.49	
1096	1.70	20	36	0.00	309.06	32.27	62.56	
1097	1.70	24	36	0.00	309.06	33.92	64.20	
1098	1.80	14	36	0.00	324.49	29.80	68.15	
1099	1.80	25	36	0.00	324.49	34.33	72.65	
1100	1.60	20	36	0.00	293.64	32.27	54.53	
1101	1.40	20	36	0.00	262.80	32.27	38.45	
1102	0.53	458	108	0.00	128.63	212.72	147.66	
1103	0.51	31	108	0.00	125.55	36.80	-28.59	
1104	0.51	24	36	0.00	125.55	33.92	-31.45	
1105	0.53	12	36	0.00	128.63	28.97	-34.75	
1106	0.47	40	36	0.00	119.38	40.51	-28.12	
1107	1.10	30	36	0.00	216.54	36.39	18.43	
1108	0.70	400	360	0.00	154.85	188.83	137.60	
1109	1.40	32	36	0.00	262.80	37.21	43.36	
1110	1.20	35	36	0.00	231.96	38.45	28.51	
1111	1.10	30	36	0.00	216.54	36.39	18.43	
1112	1.10	24	36	0.00	216.54	33.92	15.97	
1113	1.20	15	36	0.00	231.96	30.21	20.33	
1114	0.39	590	216	0.00	107.04	267.11	190.40	
1115	1.5	4204	360	0.04	278.22	1756.08	1757.74	0.02
1116	1.00	907	360	0.00	201.11	397.71	369.08	
1117	1.00	1434	360	0.00	201.11	614.84	584.62	
1118	0.80	805	360	0.00	170.27	355.69	311.29	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
1119	0.90	558	180	0.00	185.69	253.92	218.30	
1120	0.90	762	216	0.00	185.69	337.97	301.74	
1121	1.20	633	250	0.00	231.96	284.82	273.09	
1122	0.80	731	252	0.00	170.27	325.20	281.02	
1123	1.10	3391	720	0.00	216.54	1421.12	1393.08	
1124	1.70	1141	540	0.00	309.06	494.12	521.05	
1125	1.5	1058	468	0.00	278.22	459.92	471.03	
1126	1.8	3325	1757	0.00	324.49	1393.93	1422.35	
1127	1.20	2272	900	0.01	231.96	960.09	943.44	0.02
1128	1.10	1240	504	0.00	216.54	534.91	513.32	
1129	1.20	730	252	0.01	231.96	324.79	312.76	0.01
1130	1.10	1020	360	0.00	216.54	444.27	423.34	
1131	1.10	872	360	0.00	216.54	383.29	362.80	
1132	1.10	700	360	0.00	216.54	312.43	292.46	
1133	1.10	555	324	0.00	216.54	252.69	233.15	
1134	1.10	540	166	0.00	216.54	246.51	227.02	
1135	1.10	522	180	0.00	216.54	239.09	219.65	
1136	1.20	1298	828	0.00	231.96	558.80	545.08	
1137	1.20	900	360	0.00	231.96	394.83	382.29	
1138	1.10	668	288	0.00	216.54	299.24	279.37	
1139	1.10	758	288	0.00	216.54	336.32	316.18	
1140	1.10	586	260	0.00	216.54	265.46	245.83	
1141	1.00	545	216	0.00	201.11	248.57	221.02	
1142	1.00	544	216	0.00	201.11	248.16	220.61	
1143	1.00	320	216	0.00	201.11	155.87	129.00	
1144	1.00	511	216	0.00	201.11	234.56	207.12	
1145	0.95	477	216	0.00	193.40	220.55	189.19	
1146	0.67	450	108	0.00	150.22	209.43	155.64	
1147	0.67	450	108	0.00	150.22	209.43	155.64	
1148	0.67	767	144	0.00	150.22	340.03	285.30	
1149	0.80	55	36	0.00	170.27	46.69	4.54	
1150	1.40	1036	360	0.00	262.80	450.86	453.99	
1151	1.40	1151	360	0.00	262.80	498.24	501.03	
1152	1.00	400	108	0.00	201.11	188.83	161.72	
1153	1.40	35	72	0.00	262.80	38.45	44.59	
1154	1.40	35	72	0.00	262.80	38.45	44.59	
1155	1.40	24	18	0.00	262.80	33.92	40.09	
1156	1.20	380	252	0.00	231.96	180.59	169.61	
1157	1.20	50	54	0.00	231.96	44.63	34.64	
1158	1.50	39	18	0.00	278.22	40.10	54.26	
1159	1.40	30	36	0.00	262.80	36.39	42.54	
1160	1.50	31	18	0.01	278.22	36.80	50.99	0.01
1161	1.30	34	18	0.00	247.38	38.04	36.14	
1162	1.20	30	18	0.01	231.96	36.39	26.46	0.01
1163	1.20	25	18	0.00	231.96	34.33	24.42	
1164	1.20	19	18	0.00	231.96	31.86	21.97	
1165	1.10	10	18	0.00	216.54	28.15	10.25	
1166	1.30	42	36	0.00	247.38	41.33	39.41	
1167	1.10	39	18	0.00	216.54	40.10	22.11	
1168	1.10	36	18	0.00	216.54	38.86	20.88	
1169	1.10	26	18	0.00	216.54	34.74	16.79	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
1170	1.10	19	18	0.01	216.54	31.86	13.93	0.01
1171	1.00	9	18	0.00	201.11	27.74	1.80	
1172	1.20	350	72	0.00	231.96	168.23	157.34	
1173	1.10	43	72	0.01	216.54	41.74	23.74	0.01
1174	1.10	40	18	0.00	216.54	40.51	22.52	
1175	1.10	98	36	0.01	216.54	64.40	46.24	0.01
1176	1.10	70	36	0.00	216.54	52.87	34.79	
1177	1.10	40	36	0.01	216.54	40.51	22.52	0.01
1178	1.10	40	36	0.00	216.54	40.51	22.52	
1179	1.10	1688	612	0.00	216.54	719.48	696.55	
1180	1.60	1870	720	0.00	293.64	794.47	811.18	
1181	1.30	1828	720	0.00	247.38	777.16	769.88	
1182	1.40	1256	720	0.00	262.80	541.50	543.97	
1183	1.70	3770	1008	0.01	309.06	1577.27	1596.31	0.03
1184	1.50	2629	1152	0.00	278.22	1107.18	1113.57	
1185	1.40	1156	486	0.00	262.80	500.30	503.07	
1186	2.00	780	540	0.00	355.33	345.39	397.52	
1187	1.70	426	216	0.01	309.06	199.54	228.62	0.01
1188	1.90	272	180	0.01	339.91	136.09	181.71	0.01
1189	1.90	218	180	0.00	339.91	113.84	159.62	
1190	1.80	338	126	0.00	324.49	163.28	200.66	
1191	1.40	400	180	0.00	262.80	188.83	193.87	
1192	1.60	523	230	0.00	293.64	239.50	260.25	
1193	1.50	540	288	0.00	278.22	246.51	259.17	
1194	1.50	230	108	0.01	278.22	118.79	132.38	0.01
1195	1.40	42	36	0.00	262.80	41.33	47.45	
1196	1.50	39	36	0.00	278.22	40.10	54.26	
1197	1.40	40	36	0.00	262.80	40.51	46.63	
1198	1.40	38	18	0.00	262.80	39.68	45.81	
1199	1.40	36	36	0.00	262.80	38.86	44.99	
1200	1.40	37	36	0.00	262.80	39.27	45.40	
1201	1.50	36	36	0.00	278.22	38.86	53.03	
1202	1.50	36	36	0.00	278.22	38.86	53.03	
1203	1.50	2000	720	0.01	278.22	848.03	856.31	0.02
1204	1.60	39	36	0.01	293.64	40.10	62.30	0.01
1205	1.60	37	36	0.00	293.64	39.27	61.48	
1206	1.80	4108	2160	0.01	324.49	1716.52	1742.59	0.03
1207	1.70	4115	2160	0.02	309.06	1719.41	1737.42	0.03
1208	1.40	1810	828	0.01	262.80	769.75	770.56	0.02
1209	1.40	568	360	0.00	262.80	258.04	262.58	
1210	1.40	278	180	0.00	262.80	138.56	143.97	
1211	1.40	180	72	0.00	262.80	98.19	103.89	
1212	1.80	4095	2160	0.00	324.49	1711.17	1737.28	
1213	1.60	1210	900	0.01	293.64	522.55	541.24	0.02
1214	1.50	941	435	0.00	278.22	411.72	423.18	
1215	1.50	835	348	0.00	278.22	368.05	379.82	
1216	1.50	931	360	0.01	278.22	407.60	419.09	0.02
1217	2.40	755	530	0.01	417.01	335.09	419.45	0.02
1218	2.00	671	380	0.00	355.33	300.48	352.94	
1219	2.00	475	258	0.00	355.33	219.73	272.77	
1220	1.90	482	280	0.00	339.91	222.61	267.60	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
1221	1.80	445	288	0.00	324.49	207.37	244.43	
1222	2.00	497	270	0.00	355.33	228.79	281.77	
1223	2.00	382	215	0.00	355.33	181.41	234.74	
1224	1.20	899	324	0.00	231.96	394.42	381.89	
1225	1.30	45	36	0.00	247.38	42.57	40.64	
1226	1.40	40	36	0.00	262.80	40.51	46.63	
1227	1.60	67	54	0.00	293.64	51.63	73.75	
1228	1.50	45	36	0.00	278.22	42.57	56.71	
1229	1.50	45	36	0.00	278.22	42.57	56.71	
1230	1.50	44	36	0.00	278.22	42.16	56.30	
1231	1.50	45	36	0.00	278.22	42.57	56.71	
1232	1.60	40	36	0.01	293.64	40.51	62.71	0.01
1233	1.60	40	36	0.00	293.64	40.51	62.71	
1234	1.60	38	36	0.00	293.64	39.68	61.89	
1235	1.60	50	36	0.00	293.64	44.63	66.80	
1236	1.60	35	36	0.00	293.64	38.45	60.66	
1237	1.60	37	36	0.00	293.64	39.27	61.48	
1238	1.50	91	54	0.00	278.22	61.52	75.53	
1239	1.50	35	54	0.00	278.22	38.45	52.62	
1240	1.40	35	36	0.00	262.80	38.45	44.59	
1241	1.30	600	252	0.00	247.38	271.23	267.63	
1242	1.50	35	36	0.00	278.22	38.45	52.62	
1243	1.50	75	36	0.00	278.22	54.93	68.98	
1244	1.40	36	18	0.00	262.80	38.86	44.99	
1245	1.50	40	36	0.00	278.22	40.51	54.67	
1246	1.50	35	36	0.00	278.22	38.45	52.62	
1247	1.50	36	36	0.02	278.22	38.86	53.03	0.01
1248	1.50	35	36	0.00	278.22	38.45	52.62	
1249	1.50	32	36	0.00	278.22	37.21	51.40	
1250	1.50	30	36	0.00	278.22	36.39	50.58	
1251	1.50	30	36	0.00	278.22	36.39	50.58	
1252	1.50	28	36	0.00	278.22	35.56	49.76	
1253	1.70	27	36	0.00	309.06	35.15	65.43	
1254	1.50	20	36	0.00	278.22	32.27	46.49	
1255	1.70	22	36	0.00	309.06	33.09	63.38	
1256	1.70	25	36	0.00	309.06	34.33	64.61	
1257	1.80	14	36	0.00	324.49	29.80	68.15	
1258	1.80	25	36	0.00	324.49	34.33	72.65	
1259	1.60	20	36	0.00	293.64	32.27	54.53	
1260	1.40	23	36	0.00	262.80	33.50	39.68	
1261	0.52	400	108	0.00	127.09	188.83	123.14	
1262	0.51	31	108	0.00	125.55	36.80	-28.59	
1263	0.51	23	36	0.00	125.55	33.50	-31.86	
1264	0.53	11	36	0.00	128.63	28.56	-35.16	
1265	0.47	45	36	0.00	119.38	42.57	-26.08	
1266	1.20	30	36	0.00	231.96	36.39	26.46	
1267	0.70	400	720	0.00	154.85	188.83	137.60	
1268	1.40	30	36	0.00	262.80	36.39	42.54	
1269	1.20	35	36	0.00	231.96	38.45	28.51	
1270	1.10	30	36	0.00	216.54	36.39	18.43	
1271	1.10	21	36	0.00	216.54	32.68	14.75	

1272	1.20	12	36	0.00	231.96	28.97	19.10	
1273	0.36	560	230	0.00	102.42	254.75	175.71	
1274	1.5	4105	1260	0.06	278.22	####	1717.25	0.03
1275	1.00	875	360	0.00	201.11	384.53	355.99	
1276	0.45	1700	540	0.00	116.30	724.43	649.21	
1277	0.90	786	360	0.00	185.69	347.86	311.55	
1278	0.90	560	180	0.00	185.69	254.75	219.12	
1279	0.90	728	216	0.00	185.69	323.96	287.83	
1280	1.1	630	252	0.00	216.54	283.59	263.83	
1281	1.10	681	250	0.00	216.54	304.60	284.69	
1282	1.2	3391	720	0.00	231.96	1715.29	1401.11	
1283	1.70	1125	540	0.00	309.06	384.53	514.51	
1284	1.10	857	468	0.00	216.54	377.11	356.67	
1285	1.80	4500	2800	0.02	324.49	1878.03	1902.92	0.03
1286	1.20	2300	1080	0.02	231.96	971.63	954.89	0.02
1287	1.20	1476	504	0.00	231.96	632.14	617.88	
1288	1.20	675	252	0.00	231.96	302.13	290.27	
1289	1.20	1300	360	0.00	231.96	559.63	545.89	
1290	1.10	885	360	0.00	216.54	388.65	368.12	
1291	1.10	121	360	0.00	216.54	73.88	55.65	
1292	1.10	555	324	0.00	216.54	252.69	233.15	
1293	1.10	540	166	0.00	216.54	246.51	227.02	
1294	1.00	710	252	0.00	201.11	316.55	288.51	
1295	1.20	1255	432	0.01	231.96	541.09	527.49	0.02
1296	1.20	850	288	0.00	231.96	374.23	361.84	
1297	1.10	664	288	0.01	216.54	297.60	277.73	0.01
1298	1.10	690	260	0.00	216.54	308.31	288.37	
1299	1.10	550	216	0.00	216.54	250.63	231.11	
1300	1.00	660	216	0.00	201.11	295.95	268.06	
1301	1.00	547	216	0.00	201.11	249.39	221.84	
1302	1.00	525	216	0.00	201.11	240.33	212.84	
1303	1.00	508	216	0.00	201.11	233.32	205.89	
1304	0.95	479	216	0.00	193.40	221.38	190.01	
1305	0.67	450	108	0.00	150.22	209.43	155.64	
1306	0.67	816	108	0.00	150.22	360.22	305.34	
1307	0.68	800	216	0.00	151.77	353.63	299.60	
1308	0.70	55	36	0.00	154.85	46.69	-3.50	
1309	1.40	950	360	0.00	262.80	415.43	418.82	
1310	1.40	1140	360	0.02	262.80	493.71	496.53	0.02
1311	1.30	273	108	0.01	247.38	136.50	133.89	0.01
1312	1.40	34	72	0.00	262.80	38.04	44.18	
1313	1.40	31	72	0.00	262.80	36.80	42.95	
1314	1.40	24	18	0.00	262.80	33.92	40.09	
1315	1.20	280	108	0.01	231.96	139.39	128.71	0.01
1316	1.20	50	36	0.00	231.96	44.63	34.64	
1317	1.50	40	18	0.00	278.22	40.51	54.67	
1318	1.50	30	18	0.00	278.22	36.39	50.58	
1319	1.60	31	18	0.01	293.64	36.80	59.03	0.01
1320	1.30	34	18	0.00	247.38	38.04	36.14	
1321	1.20	30	18	0.00	231.96	36.39	26.46	
1322	1.20	24	18	0.00	231.96	33.92	24.01	
1323	1.10	15	18	0.00	216.54	30.21	12.29	
1324	1.10	11	18	0.00	216.54	28.56	10.66	
1325	1.2	42	36	0.00	231.96	41.33	31.37	
1326	1.10	45	18	0.00	216.54	42.57	24.56	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
1327	1.10	36	18	0.00	216.54	38.86	20.88	
1328	1.10	28	18	0.00	216.54	35.56	17.61	
1329	1.1	20	18	0.00	216.54	32.27	14.34	
1330	1.10	10	18	0.00	216.54	28.15	10.25	
1331	1.20	201	72	0.01	231.96	106.84	96.40	0.01
1332	1.10	45	36	0.01	216.54	42.57	24.56	0.01
1333	1.10	40	18	0.00	216.54	40.51	22.52	
1334	1.10	170	36	0.00	216.54	94.07	75.69	
1335	1.10	60	36	0.00	216.54	48.75	30.70	
1336	1.10	40	36	0.00	216.54	40.51	22.52	
1337	1.20	40	36	0.00	231.96	40.51	30.55	
1338	1.20	1571	612	0.00	231.96	671.28	656.73	
1339	2.30	4400	2800	0.05	401.59	1836.83	1902.21	0.03
1340	1.40	1993	1008	0.00	262.80	845.14	845.41	
1341	1.30	1068	432	0.00	247.38	464.04	459.04	
1342	1.70	3120	1800	0.03	309.06	1309.47	1330.46	0.03
1343	1.50	2504	1152	0.02	278.22	1055.68	1062.44	0.02
1344	1.40	1454	486	0.01	262.80	623.08	624.96	0.02
1345	1.80	650	324	0.00	324.49	291.83	328.27	
1346	1.60	380	216	0.01	293.64	180.59	201.77	0.01
1347	1.90	250	180	0.01	339.91	127.03	172.71	0.01
1348	1.80	230	180	0.01	324.49	118.79	156.49	0.01
1349	1.70	360	180	0.01	309.06	172.35	201.62	0.01
1350	1.50	421	180	0.00	278.22	197.48	210.50	
1351	1.50	550	360	0.00	278.22	250.63	263.26	
1352	1.60	550	288	0.00	293.64	250.63	271.30	
1353	1.50	225	108	0.01	278.22	116.73	130.33	0.01
1354	1.40	40	36	0.00	262.80	40.51	46.63	
1355	1.50	39	36	0.00	278.22	40.10	54.26	
1356	1.40	38	36	0.00	262.80	39.68	45.81	
1357	1.40	40	36	0.00	262.80	40.51	46.63	
1358	1.40	37	36	0.00	262.80	39.27	45.40	
1359	1.40	37	36	0.00	262.80	39.27	45.40	
1360	1.50	38	36	0.00	278.22	39.68	53.85	
1361	1.50	36	36	0.00	278.22	38.86	53.03	
1362	1.50	692	284	0.00	278.22	309.13	321.34	
1363	1.60	36	36	0.01	293.64	38.86	61.07	0.01
1364	1.60	36	36	0.01	293.64	38.86	61.07	0.01
1365	1.90	3910	2376	0.00	339.91	1634.95	1669.65	
1366	1.80	4124	2160	0.01	324.49	1723.12	1749.14	0.03
1367	1.60	41	36	0.00	293.64	40.92	63.12	
1368	1.40	532	360	0.00	262.80	243.21	247.86	
1369	1.40	260	180	0.00	262.80	131.15	136.61	
1370	1.40	193	72	0.00	262.80	103.54	109.21	
1371	1.70	4000	2160	0.01	309.06	1672.03	1690.38	0.03
1372	1.60	1280	700	0.00	293.64	551.39	569.87	
1373	1.50	939	435	0.00	278.22	410.90	422.36	
1374	1.50	750	360	0.00	278.22	333.03	345.06	
1375	1.50	889	360	0.00	278.22	390.30	401.91	
1376	2.50	741	471	0.05	432.44	329.32	421.76	0.02
1377	2.00	660	342	0.00	355.33	295.95	348.44	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
1378	1.90	473	246	0.00	339.91	218.90	263.92	
1379	2.00	480	271	0.01	355.33	221.79	274.82	0.01
1380	1.80	455	288	0.00	324.49	211.49	248.52	
1381	2.00	484	216	0.00	355.33	223.44	276.45	
1382	2.00	452	208	0.00	355.33	210.25	263.37	
1383	1.20	890	295	0.00	231.96	390.71	378.20	
1384	1.30	43	36	0.00	247.38	41.74	39.82	
1385	1.40	40	36	0.00	262.80	40.51	46.63	
1386	1.50	54	36	0.00	278.22	46.28	60.39	
1387	1.50	48	36	0.00	278.22	43.80	57.94	
1388	1.50	43	36	0.00	278.22	41.74	55.90	
1389	1.50	45	36	0.00	278.22	42.57	56.71	
1390	1.50	45	36	0.00	278.22	42.57	56.71	
1391	1.60	48	36	0.01	293.64	43.80	65.98	0.01
1392	1.60	41	36	0.00	293.64	40.92	63.12	
1393	1.60	38	36	0.00	293.64	39.68	61.89	
1394	1.60	50	36	0.00	293.64	44.63	66.80	
1395	1.60	37	36	0.00	293.64	39.27	61.48	
1396	1.60	38	36	0.00	293.64	39.68	61.89	
1397	1.50	48	36	0.00	278.22	43.80	57.94	
1398	1.50	45	54	0.00	278.22	42.57	56.71	
1399	1.40	37	36	0.00	262.80	39.27	45.40	
1400	1.40	534	219	0.00	262.80	244.04	248.68	
1401	1.50	35	36	0.00	278.22	38.45	52.62	
1402	1.40	50	36	0.00	262.80	44.63	50.72	
1403	1.40	36	36	0.00	262.80	38.86	44.99	
1404	1.50	40	36	0.00	278.22	40.51	54.67	
1405	1.50	37	36	0.00	278.22	39.27	53.44	
1406	1.50	36	36	0.00	278.22	38.86	53.03	
1407	1.50	34	36	0.00	278.22	38.04	52.21	
1408	1.50	33	36	0.00	278.22	37.62	51.81	
1409	1.50	30	36	0.00	278.22	36.39	50.58	
1410	1.50	29	36	0.00	278.22	35.98	50.17	
1411	1.50	30	36	0.00	278.22	36.39	50.58	
1412	1.70	30	36	0.00	309.06	36.39	66.65	
1413	1.70	23	36	0.00	309.06	33.50	63.79	
1414	1.70	19	36	0.00	309.06	31.86	62.16	
1415	1.70	20	36	0.00	309.06	32.27	62.56	
1416	1.80	12	36	0.00	324.49	28.97	67.33	
1417	1.80	20	36	0.00	324.49	32.27	70.60	
1418	1.40	21	36	0.00	262.80	32.68	38.86	
1419	1.50	20	36	0.00	278.22	32.27	46.49	
1420	0.50	400	108	0.00	124.01	188.83	121.53	
1421	0.50	35	36	0.00	124.01	38.45	-27.76	
1422	0.51	25	36	0.00	125.55	34.33	-31.04	
1423	0.51	11	36	0.00	125.55	28.56	-36.77	
1424	1.30	45	36	0.00	247.38	42.57	40.64	
1425	1.10	35	36	0.00	216.54	38.45	20.47	
1426	1.50	850	360	0.00	278.22	374.23	385.96	
1427	1.50	34	36	0.00	278.22	38.04	52.21	
1428	1.20	30	36	0.00	231.96	36.39	26.46	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
1429	1.20	28	36	0.00	231.96	35.56	25.65	
1430	1.10	19	36	0.00	216.54	31.86	13.93	
1431	1.10	12	36	0.00	216.54	28.97	11.06	
1432	0.36	535	230	0.00	102.42	244.45	165.49	
1433	0.65	3833	1260	0.05	147.14	1603.22	1537.68	
1434	1.00	836	360	0.00	201.11	368.46	340.04	
1435	0.45	2000	540	0.00	116.30	848.03	771.91	
1436	0.90	771	360	0.00	185.69	341.68	305.42	
1437	0.90	562	180	0.00	185.69	255.57	219.94	
1438	0.90	713	216	0.00	185.69	317.78	281.70	
1439	1.1	630	252	0.00	216.54	283.59	263.83	
1440	1.10	679	250	0.00	216.54	303.78	283.87	
1441	1.1	3391	720	0.00	216.54	1421.12	1393.08	
1442	1.70	1103	540	0.00	309.06	478.46	505.51	
1443	1.10	801	468	0.00	216.54	354.04	333.77	
1444	1.90	4500	2800	0.02	339.91	1878.03	1910.96	
1445	1.20	2425	1080	0.00	231.96	1023.13	1006.02	
1446	1.20	1282	504	0.00	231.96	552.21	538.53	
1447	1.20	663	252	0.00	231.96	297.18	285.36	
1448	1.20	1500	360	0.00	231.96	642.03	627.69	
1449	1.00	870	360	0.00	201.11	382.47	353.95	
1450	1.10	100	360	0.00	216.54	65.23	47.06	
1451	1.10	555	324	0.00	216.54	252.69	233.15	
1452	1.10	540	166	0.00	216.54	246.51	227.02	
1453	1.10	2110	720	0.00	216.54	893.35	869.15	
1454	1.20	1200	432	0.01	231.96	518.43	504.99	0.02
1455	1.20	850	288	0.00	231.96	374.23	361.84	
1456	1.10	651	288	0.01	216.54	292.24	272.42	0.01
1457	1.10	670	260	0.00	216.54	300.07	280.19	
1458	1.10	550	216	0.00	216.54	250.63	231.11	
1459	1.00	660	216	0.00	201.11	295.95	268.06	
1460	1.00	545	216	0.00	201.11	248.57	221.02	
1461	1.00	525	216	0.00	201.11	240.33	212.84	
1462	1.00	508	216	0.00	201.11	233.32	205.89	
1463	0.95	479	216	0.00	193.40	221.38	190.01	
1464	0.67	452	108	0.00	150.22	210.25	156.46	
1465	0.68	802	108	0.00	151.77	354.45	300.41	
1466	0.68	800	216	0.00	151.77	353.63	299.60	
1467	0.70	55	36	0.00	154.85	46.69	-3.50	
1468	1.20	750	252	0.00	231.96	333.03	320.94	
1469	1.40	1385	360	0.02	262.80	594.65	596.74	0.02
1470	1.30	270	108	0.01	247.38	135.27	132.66	0.01
1471	1.40	33	72	0.00	262.80	37.62	43.77	
1472	1.40	30	72	0.01	262.80	36.39	42.54	0.01
1473	1.40	24	18	0.00	262.80	33.92	40.09	
1474	1.20	253	108	0.01	231.96	128.26	117.67	0.01
1475	1.20	50	36	0.00	231.96	44.63	34.64	
1476	1.50	40	18	0.00	278.22	40.51	54.67	
1477	1.50	30	18	0.00	278.22	36.39	50.58	
1478	1.60	33	18	0.01	293.64	37.62	59.84	0.01
1479	1.30	34	18	0.00	247.38	38.04	36.14	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
1480	1.20	30	18	0.00	231.96	36.39	26.46	
1481	1.20	24	18	0.00	231.96	33.92	24.01	
1482	1.10	20	18	0.00	216.54	32.27	14.34	
1483	1.10	10	18	0.00	216.54	28.15	10.25	
1484	1.2	40	36	0.00	231.96	40.51	30.55	
1485	1.10	40	18	0.00	216.54	40.51	22.52	
1486	1.10	36	18	0.00	216.54	38.86	20.88	
1487	1.10	26	18	0.00	216.54	34.74	16.79	
1488	1.00	18	18	0.00	201.11	31.44	5.48	
1489	1.10	10	18	0.00	216.54	28.15	10.25	
1490	1.20	196	72	0.01	231.96	104.78	94.36	0.01
1491	1.10	45	36	0.01	216.54	42.57	24.56	0.01
1492	1.10	40	18	0.00	216.54	40.51	22.52	
1493	1.10	163	36	0.00	216.54	91.18	72.82	
1494	1.10	60	36	0.00	216.54	48.75	30.70	
1495	1.10	40	36	0.00	216.54	40.51	22.52	
1496	1.20	35	36	0.00	231.96	38.45	28.51	
1497	1.20	1409	612	0.00	231.96	604.54	590.48	
1498	2.30	4400	2800	0.04	401.59	1836.83	1902.21	0.03
1499	1.40	3842	1620	0.00	262.80	1606.93	1601.65	
1500	1.30	1030	432	0.00	247.38	448.39	443.50	
1501	1.70	2829	1800	0.01	309.06	1189.58	1211.45	0.03
1502	1.40	2150	900	0.01	262.80	909.83	909.62	0.02
1503	1.40	1440	486	0.01	262.80	617.31	619.23	0.02
1504	1.80	633	324	0.00	324.49	284.82	321.32	0.01
1505	1.60	365	216	0.01	293.64	174.41	195.63	0.01
1506	1.90	250	180	0.01	339.91	127.03	172.71	0.01
1507	1.70	230	180	0.00	309.06	118.79	148.45	
1508	1.70	376	180	0.01	309.06	178.94	208.17	0.01
1509	1.50	435	180	0.00	278.22	203.25	216.22	
1510	1.50	547	360	0.00	278.22	249.39	262.03	
1511	1.60	664	298	0.00	293.64	297.60	317.92	
1512	1.40	48	36	0.01	262.80	43.80	49.90	0.01
1513	1.40	39	36	0.00	262.80	40.10	46.22	
1514	1.50	40	36	0.00	278.22	40.51	54.67	
1515	1.40	38	36	0.00	262.80	39.68	45.81	
1516	1.40	40	36	0.00	262.80	40.51	46.63	
1517	1.40	37	36	0.00	262.80	39.27	45.40	
1518	1.40	36	36	0.00	262.80	38.86	44.99	
1519	1.50	36	36	0.00	278.22	38.86	53.03	
1520	1.50	36	36	0.00	278.22	38.86	53.03	
1521	1.50	484	284	0.00	278.22	223.44	236.26	
1522	1.60	36	36	0.01	293.64	38.86	61.07	0.01
1523	1.60	36	36	0.01	293.64	38.86	61.07	0.01
1524	1.90	3520	2008	0.00	339.91	1474.27	1510.14	
1525	1.80	4088	2160	0.01	324.49	1708.28	1734.41	0.03
1526	1.60	40	36	0.00	293.64	40.51	62.71	
1527	1.40	509	360	0.00	262.80	233.74	238.45	
1528	1.40	256	180	0.01	262.80	129.50	134.97	0.01
1529	1.40	201	72	0.00	262.80	106.84	112.48	
1530	1.60	3750	2800	0.01	293.64	1569.03	1580.10	0.03

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
1531	1.60	1282	700	0.00	293.64	552.21	570.68	
1532	1.50	936	435	0.00	278.22	409.66	421.13	
1533	1.50	770	360	0.01	278.22	341.27	353.24	0.02
1534	1.50	950	360	0.00	278.22	415.43	426.86	
1535	2.50	635	435	0.00	432.44	285.65	378.40	
1536	1.90	620	334	0.00	339.91	279.47	324.04	
1537	1.90	504	262	0.00	339.91	231.68	276.60	
1538	2.00	482	274	0.01	355.33	222.61	275.64	0.01
1539	1.80	455	288	0.00	324.49	211.49	248.52	
1540	2.00	471	216	0.00	355.33	218.08	271.14	
1541	2.00	947	540	0.00	355.33	414.19	465.82	
1542	1.20	887	291	0.00	231.96	389.47	376.98	
1543	1.20	43	36	0.00	231.96	41.74	31.78	
1544	1.40	40	36	0.00	262.80	40.51	46.63	
1545	1.50	60	36	0.00	278.22	48.75	62.85	
1546	1.50	76	36	0.00	278.22	55.34	69.39	
1547	1.50	42	36	0.00	278.22	41.33	55.49	
1548	1.50	45	36	0.00	278.22	42.57	56.71	
1549	1.50	45	36	0.00	278.22	42.57	56.71	
1550	1.60	40	36	0.01	293.64	40.51	62.71	0.01
1551	1.60	40	36	0.00	293.64	40.51	62.71	
1552	1.60	37	36	0.00	293.64	39.27	61.48	
1553	1.60	44	36	0.00	293.64	42.16	64.34	
1554	1.60	34	36	0.00	293.64	38.04	60.25	
1555	1.60	38	36	0.00	293.64	39.68	61.89	
1556	1.50	48	36	0.00	278.22	43.80	57.94	
1557	1.50	38	54	0.00	278.22	39.68	53.85	
1558	1.40	36	36	0.00	262.80	38.86	44.99	
1559	1.40	512	219	0.00	262.80	234.97	239.68	
1560	1.50	35	36	0.00	278.22	38.45	52.62	
1561	1.40	50	36	0.00	262.80	44.63	50.72	
1562	1.40	36	36	0.00	262.80	38.86	44.99	
1563	1.50	40	36	0.00	278.22	40.51	54.67	
1564	1.50	37	36	0.00	278.22	39.27	53.44	
1565	1.50	35	36	0.00	278.22	38.45	52.62	
1566	1.50	35	36	0.00	278.22	38.45	52.62	
1567	1.50	35	36	0.00	278.22	38.45	52.62	
1568	1.50	30	36	0.00	278.22	36.39	50.58	
1569	1.50	31	36	0.00	278.22	36.80	50.99	
1570	1.50	30	36	0.00	278.22	36.39	50.58	
1571	1.70	30	36	0.00	309.06	36.39	66.65	
1572	1.70	25	36	0.00	309.06	34.33	64.61	
1573	1.70	20	36	0.00	309.06	32.27	62.56	
1574	1.70	21	36	0.00	309.06	32.68	62.97	
1575	1.80	12	36	0.00	324.49	28.97	67.33	
1576	1.80	19	36	0.00	324.49	31.86	70.19	
1577	1.40	19	36	0.00	262.80	31.86	38.04	
1578	1.50	20	36	0.00	278.22	32.27	46.49	
1579	0.50	400	108	0.01	124.01	188.83	121.53	0.01
1580	0.51	33	36	0.00	125.55	37.62	-27.77	
1581	0.51	24	36	0.00	125.55	33.92	-31.45	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
1582	0.51	11	36	0.00	125.55	28.56	-36.77	
1583	1.30	45	36	0.00	247.38	42.57	40.64	
1584	1.10	35	36	0.00	216.54	38.45	20.47	
1585	1.50	4000	1350	0.00	278.22	1672.03	1674.31	
1586	1.60	33	36	0.00	293.64	37.62	59.84	
1587	1.20	30	36	0.00	231.96	36.39	26.46	
1588	1.20	28	36	0.00	231.96	35.56	25.65	
1589	1.20	22	36	0.00	231.96	33.09	23.19	
1590	1.10	12	36	0.00	216.54	28.97	11.06	
1591	0.36	593	230	0.00	102.42	268.34	189.21	
1592	0.52	3577	1260	0.07	127.09	1497.75	1422.53	0.03
1593	1.00	756	360	0.00	201.11	335.50	307.32	
1594	0.45	2100	540	0.00	116.30	889.23	812.81	
1595	0.90	725	360	0.00	185.69	322.73	286.61	
1596	0.90	565	180	0.00	185.69	256.81	221.17	
1597	0.90	688	216	0.00	185.69	307.48	271.47	
1598	0.8	625	252	0.00	170.27	281.53	237.67	
1599	1.10	678	250	0.00	216.54	303.36	283.46	
1600	1.1	3391	720	0.00	216.54	1421.12	1393.08	
1601	1.70	1045	540	0.00	309.06	454.57	481.79	
1602	1.10	789	468	0.00	216.54	349.10	328.86	
1603	2.00	4500	2800	0.03	355.33	1878.03	1919.00	0.03
1604	1.5	3800	1980	0.05	278.22	1589.63	1592.51	0.03
1605	1.20	1140	504	0.00	231.96	493.71	480.45	
1606	1.20	639	252	0.00	231.96	287.30	275.55	
1607	1.20	1700	360	0.00	231.96	724.43	709.49	
1608	1.10	865	360	0.00	216.54	380.41	359.94	
1609	1.10	100	360	0.00	216.54	65.23	47.06	
1610	1.10	555	324	0.00	216.54	252.69	233.15	
1611	1.10	540	166	0.00	216.54	246.51	227.02	
1612	1.20	3580	1080	0.02	231.96	1498.99	1478.41	0.03
1613	1.20	1160	432	0.00	231.96	501.95	488.63	
1614	1.20	750	288	0.00	231.96	333.03	320.94	
1615	1.10	648	288	0.00	216.54	291.00	271.19	
1616	1.10	660	260	0.00	216.54	295.95	276.10	
1617	1.10	550	216	0.00	216.54	250.63	231.11	
1618	1.00	660	216	0.00	201.11	295.95	268.06	
1619	1.00	543	216	0.00	201.11	247.74	220.21	
1620	1.00	525	216	0.00	201.11	240.33	212.84	
1621	1.00	508	216	0.00	201.11	233.32	205.89	
1622	0.95	479	216	0.00	193.40	221.38	190.01	
1623	0.67	456	108	0.00	150.22	211.90	158.10	
1624	0.67	647	108	0.00	150.22	290.59	236.22	
1625	0.68	800	216	0.00	151.77	353.63	299.60	
1626	0.70	55	36	0.00	154.85	46.69	-3.50	
1627	1.20	615	252	0.00	231.96	277.41	265.73	
1628	1.40	1267	360	0.02	262.80	546.03	548.47	0.02
1629	1.20	193	108	0.00	231.96	103.54	93.13	
1630	1.40	34	72	0.00	262.80	38.04	44.18	
1631	1.40	32	72	0.01	262.80	37.21	43.36	0.01
1632	1.40	24	18	0.00	262.80	33.92	40.09	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
1633	1.20	200	108	0.00	231.96	106.43	95.99	
1634	1.20	50	36	0.00	231.96	44.63	34.64	
1635	1.50	40	18	0.00	278.22	40.51	54.67	
1636	1.50	30	18	0.00	278.22	36.39	50.58	
1637	1.50	32	18	0.01	278.22	37.21	51.40	0.01
1638	1.30	34	18	0.00	247.38	38.04	36.14	
1639	1.20	30	18	0.00	231.96	36.39	26.46	
1640	1.20	24	18	0.00	231.96	33.92	24.01	
1641	1.10	20	18	0.00	216.54	32.27	14.34	
1642	1.10	9	18	0.00	216.54	27.74	9.84	
1643	1.2	41	36	0.00	231.96	40.92	30.96	
1644	1.10	38	18	0.00	216.54	39.68	21.70	
1645	1.10	36	18	0.00	216.54	38.86	20.88	
1646	1.10	23	18	0.00	216.54	33.50	15.56	
1647	1.00	18	18	0.00	201.11	31.44	5.48	
1648	1.10	10	18	0.00	216.54	28.15	10.25	
1649	1.20	185	72	0.01	231.96	100.25	89.86	0.01
1650	1.10	45	36	0.01	216.54	42.57	24.56	0.01
1651	1.10	40	18	0.00	216.54	40.51	22.52	
1652	1.10	158	36	0.00	216.54	89.12	70.78	
1653	1.10	50	36	0.00	216.54	44.63	26.61	
1654	1.10	39	36	0.00	216.54	40.10	22.11	
1655	1.20	45	36	0.00	231.96	42.57	32.60	
1656	1.20	1657	612	0.00	231.96	706.71	691.91	
1657	2.40	4100	2800	0.01	417.01	1713.23	1787.55	0.03
1658	1.50	3249	1620	0.00	278.22	1362.62	1367.15	
1659	1.30	1340	432	0.00	247.38	576.11	570.29	
1660	1.70	2433	1440	0.01	309.06	1026.42	1049.48	0.02
1661	1.40	1800	288	0.01	262.80	765.63	766.47	0.02
1662	1.40	1380	486	0.01	262.80	592.59	594.69	0.02
1663	1.70	597	280	0.00	309.06	269.99	298.56	
1664	1.60	345	216	0.01	293.64	166.17	187.45	0.01
1665	1.90	250	180	0.01	339.91	127.03	172.71	0.01
1666	1.70	215	180	0.00	309.06	112.61	142.32	
1667	1.70	370	180	0.01	309.06	176.47	205.71	0.01
1668	1.50	450	180	0.00	278.22	209.43	222.36	
1669	1.50	533	360	0.00	278.22	243.62	256.31	
1670	1.60	675	298	0.00	293.64	302.13	322.42	
1671	1.40	45	36	0.01	262.80	42.57	48.68	0.01
1672	1.40	42	36	0.00	262.80	41.33	47.45	
1673	1.50	37	36	0.00	278.22	39.27	53.44	
1674	1.40	36	36	0.00	262.80	38.86	44.99	
1675	1.40	44	36	0.00	262.80	42.16	48.27	
1676	1.40	37	36	0.00	262.80	39.27	45.40	
1677	1.40	36	36	0.00	262.80	38.86	44.99	
1678	1.50	37	36	0.00	278.22	39.27	53.44	
1679	1.50	35	36	0.00	278.22	38.45	52.62	
1680	1.50	217	284	0.00	278.22	113.43	127.06	
1681	1.60	36	36	0.01	293.64	38.86	61.07	0.01
1682	1.60	36	36	0.01	293.64	38.86	61.07	0.01
1683	1.80	2910	1530	0.00	324.49	1222.95	1252.61	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
1684	1.70	4007	2160	0.00	309.06	1674.91	1693.25	
1685	1.60	38	36	0.00	293.64	39.68	61.89	
1686	1.40	498	360	0.00	262.80	229.20	233.95	
1687	1.30	250	180	0.01	247.38	127.03	124.48	0.01
1688	1.40	227	72	0.00	262.80	117.55	123.11	
1689	1.60	3210	2160	0.01	293.64	1346.55	1359.24	0.03
1690	1.60	1288	700	0.00	293.64	554.68	573.14	
1691	1.50	930	435	0.00	278.22	407.19	418.68	
1692	1.50	768	360	0.00	278.22	340.44	352.42	
1693	1.50	935	360	0.00	278.22	409.25	420.72	
1694	2.40	611	403	0.00	417.01	275.76	360.55	
1695	1.80	592	320	0.00	324.49	267.93	304.55	
1696	1.90	512	262	0.00	339.91	234.97	279.87	
1697	1.90	477	270	0.00	339.91	220.55	265.55	
1698	1.80	450	288	0.00	324.49	209.43	246.47	
1699	2.00	458	216	0.00	355.33	212.72	265.82	
1700	2.00	1100	540	0.00	355.33	477.23	528.40	
1701	1.20	853	280	0.00	231.96	375.46	363.07	
1702	1.20	43	36	0.00	231.96	41.74	31.78	
1703	1.40	40	36	0.00	262.80	40.51	46.63	
1704	1.50	57	36	0.00	278.22	47.51	61.62	
1705	1.50	63	36	0.00	278.22	49.98	64.08	
1706	1.50	44	36	0.00	278.22	42.16	56.30	
1707	1.50	45	36	0.00	278.22	42.57	56.71	
1708	1.50	45	36	0.00	278.22	42.57	56.71	
1709	1.60	42	36	0.01	293.64	41.33	63.52	0.01
1710	1.60	38	36	0.00	293.64	39.68	61.89	
1711	1.60	38	36	0.00	293.64	39.68	61.89	
1712	1.60	41	36	0.00	293.64	40.92	63.12	
1713	1.60	38	36	0.00	293.64	39.68	61.89	
1714	1.60	38	36	0.00	293.64	39.68	61.89	
1715	1.50	45	36	0.00	278.22	42.57	56.71	
1716	1.50	34	54	0.00	278.22	38.04	52.21	
1717	1.30	36	36	0.00	247.38	38.86	36.96	
1718	1.40	497	219	0.00	262.80	228.79	233.54	
1719	1.50	35	36	0.00	278.22	38.45	52.62	
1720	1.40	50	36	0.00	262.80	44.63	50.72	
1721	1.40	36	36	0.00	262.80	38.86	44.99	
1722	1.50	40	36	0.00	278.22	40.51	54.67	
1723	1.40	36	36	0.00	262.80	38.86	44.99	
1724	1.50	34	36	0.00	278.22	38.04	52.21	
1725	1.50	33	36	0.00	278.22	37.62	51.81	
1726	1.50	34	36	0.00	278.22	38.04	52.21	
1727	1.50	28	36	0.00	278.22	35.56	49.76	
1728	1.50	30	36	0.00	278.22	36.39	50.58	
1729	1.50	30	36	0.00	278.22	36.39	50.58	
1730	1.70	30	36	0.00	309.06	36.39	66.65	
1731	1.70	24	36	0.00	309.06	33.92	64.20	
1732	1.70	22	36	0.00	309.06	33.09	63.38	
1733	1.70	20	36	0.00	309.06	32.27	62.56	
1734	1.80	12	36	0.00	324.49	28.97	67.33	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
1735	1.80	19	36	0.00	324.49	31.86	70.19	
1736	1.40	19	36	0.00	262.80	31.86	38.04	
1737	1.50	20	36	0.00	278.22	32.27	46.49	
1738	0.50	400	108	0.01	124.01	188.83	121.53	0.01
1739	0.51	33	36	0.00	125.55	37.62	-27.77	
1740	0.51	22	36	0.00	125.55	33.09	-32.27	
1741	0.52	12	36	0.00	127.09	28.97	-35.56	
1742	1.30	45	36	0.00	247.38	42.57	40.64	
1743	1.10	35	36	0.00	216.54	38.45	20.47	
1744	1.50	2500	1098	0.00	278.22	1054.03	1060.81	
1745	1.50	33	36	0.00	278.22	37.62	51.81	
1746	1.10	35	36	0.00	216.54	38.45	20.47	
1747	1.10	27	36	0.00	216.54	35.15	17.20	
1748	1.20	18	36	0.00	231.96	31.44	21.56	
1749	1.10	12	36	0.00	216.54	28.97	11.06	
1750	0.36	593	230	0.00	102.42	268.34	189.21	
1751	0.52	3887	1260	0.04	127.09	1625.47	1549.32	0.03
1752	1.00	754	360	0.00	201.11	334.68	306.50	
1753	0.45	2000	540	0.00	116.30	848.03	771.91	
1754	0.90	701	360	0.00	185.69	312.84	276.79	
1755	0.90	563	180	0.00	185.69	255.98	220.35	
1756	0.90	685	216	0.00	185.69	306.25	270.25	
1757	0.9	760	252	0.00	185.69	337.15	300.92	
1758	1.10	683	250	0.00	216.54	305.42	285.50	
1759	1.1	3391	720	0.00	216.54	1421.12	1393.08	
1760	1.70	959	540	0.00	309.06	419.14	446.62	
1761	1.10	738	468	0.00	216.54	328.08	308.00	
1762	2.00	4105	1440	0.02	355.33	1715.29	1757.44	0.03
1763	1.5	4012	1980	0.00	278.22	1676.97	1679.22	
1764	1.20	1120	504	0.00	231.96	485.47	472.27	
1765	1.20	616	252	0.00	231.96	277.82	266.14	
1766	1.20	1400	360	0.00	231.96	600.83	586.79	
1767	1.10	860	360	0.00	216.54	378.35	357.90	
1768	1.10	100	360	0.00	216.54	65.23	47.06	
1769	1.10	555	324	0.00	216.54	252.69	233.15	
1770	1.10	540	166	0.00	216.54	246.51	227.02	
1771	1.20	2970	1080	0.01	231.96	1247.67	1228.92	0.02
1772	1.20	1160	432	0.00	231.96	501.95	488.63	
1773	1.20	750	288	0.00	231.96	333.03	320.94	
1774	1.10	631	288	0.00	216.54	284.00	264.24	
1775	1.10	690	260	0.00	216.54	308.31	288.37	
1776	1.10	550	216	0.00	216.54	250.63	231.11	
1777	1.00	660	216	0.00	201.11	295.95	268.06	
1778	1.00	541	216	0.00	201.11	246.92	219.39	
1779	1.00	525	216	0.00	201.11	240.33	212.84	
1780	1.00	508	216	0.00	201.11	233.32	205.89	
1781	0.95	479	216	0.00	193.40	221.38	190.01	
1782	0.67	459	108	0.00	150.22	213.14	159.32	
1783	0.67	761	108	0.00	150.22	337.56	282.84	
1784	0.68	800	216	0.00	151.77	353.63	299.60	
1785	0.70	55	36	0.00	154.85	46.69	-3.50	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
1786	1.20	480	252	0.00	231.96	221.79	210.51	
1787	1.40	1270	360	0.02	262.80	547.27	549.70	0.02
1788	1.20	126	108	0.00	231.96	75.94	65.73	
1789	1.40	34	72	0.00	262.80	38.04	44.18	
1790	1.40	32	72	0.01	262.80	37.21	43.36	0.01
1791	1.40	24	18	0.00	262.80	33.92	40.09	
1792	1.20	180	108	0.00	231.96	98.19	87.81	
1793	1.20	50	36	0.00	231.96	44.63	34.64	
1794	1.50	40	18	0.00	278.22	40.51	54.67	
1795	1.50	30	18	0.00	278.22	36.39	50.58	
1796	1.50	35	18	0.01	278.22	38.45	52.62	0.01
1797	1.30	34	18	0.00	247.38	38.04	36.14	
1798	1.20	30	18	0.00	231.96	36.39	26.46	
1799	1.20	24	18	0.00	231.96	33.92	24.01	
1800	1.10	20	18	0.00	216.54	32.27	14.34	
1801	1.10	10	18	0.00	216.54	28.15	10.25	
1802	1.2	41	36	0.00	231.96	40.92	30.96	
1803	1.10	36	18	0.00	216.54	38.86	20.88	
1804	1.10	36	18	0.00	216.54	38.86	20.88	
1805	1.10	21	18	0.00	216.54	32.68	14.75	
1806	1.00	15	18	0.00	201.11	30.21	4.25	
1807	1.10	10	18	0.00	216.54	28.15	10.25	
1808	1.20	128	72	0.01	231.96	76.76	66.55	0.01
1809	1.10	45	36	0.01	216.54	42.57	24.56	0.01
1810	1.10	40	18	0.00	216.54	40.51	22.52	
1811	1.10	152	36	0.00	216.54	86.65	68.32	
1812	1.10	50	36	0.00	216.54	44.63	26.61	
1813	1.10	40	36	0.00	216.54	40.51	22.52	
1814	1.20	55	36	0.00	231.96	46.69	36.69	
1815	1.20	1240	612	0.00	231.96	534.91	521.35	
1816	2.40	4100	2800	0.01	417.01	1713.23	1787.55	0.03
1817	1.50	3115	1620	0.00	278.22	1307.41	1312.34	
1818	1.40	1870	720	0.00	262.80	794.47	795.10	
1819	1.70	2321	1440	0.01	309.06	980.28	1003.67	0.02
1820	1.40	1625	144	0.01	262.80	693.53	694.90	0.02
1821	1.40	1321	486	0.01	262.80	568.28	570.56	0.02
1822	1.70	586	280	0.00	309.06	265.46	294.06	
1823	1.60	330	216	0.01	293.64	159.99	181.32	0.01
1824	1.90	250	180	0.01	339.91	127.03	172.71	0.01
1825	1.70	222	180	0.00	309.06	115.49	145.18	
1826	1.70	370	180	0.01	309.06	176.47	205.71	0.01
1827	1.50	466	288	0.00	278.22	216.02	228.90	
1828	1.50	531	360	0.00	278.22	242.80	255.49	
1829	1.60	616	298	0.00	293.64	277.82	298.29	
1830	1.40	42	36	0.01	262.80	41.33	47.45	0.01
1831	1.40	38	36	0.00	262.80	39.68	45.81	
1832	1.50	39	36	0.00	278.22	40.10	54.26	
1833	1.40	36	36	0.00	262.80	38.86	44.99	
1834	1.40	44	36	0.00	262.80	42.16	48.27	
1835	1.40	38	36	0.00	262.80	39.68	45.81	
1836	1.40	36	36	0.00	262.80	38.86	44.99	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
1837	1.50	36	36	0.00	278.22	38.86	53.03	
1838	1.50	35	36	0.00	278.22	38.45	52.62	
1839	1.50	88	284	0.00	278.22	60.28	74.30	
1840	1.60	36	36	0.01	293.64	38.86	61.07	0.01
1841	1.60	36	36	0.01	293.64	38.86	61.07	0.01
1842	1.80	2480	1274	0.00	324.49	1045.79	1076.74	
1843	1.70	4117	2160	0.01	309.06	1720.23	1738.24	0.03
1844	1.60	39	36	0.00	293.64	40.10	62.30	
1845	1.40	440	360	0.00	262.80	205.31	210.23	
1846	1.30	239	144	0.01	247.38	122.50	119.98	0.01
1847	1.40	315	108	0.00	262.80	153.81	159.11	
1848	1.60	2620	900	0.01	293.64	1103.47	1117.93	0.02
1849	1.60	1289	700	0.00	293.64	555.10	573.55	
1850	1.50	924	435	0.00	278.22	404.72	416.22	
1851	1.50	752	360	0.00	278.22	333.85	345.88	
1852	1.50	952	360	0.00	278.22	416.25	427.68	
1853	2.40	576	381	0.00	417.01	261.34	346.23	
1854	1.80	570	314	0.00	324.49	258.87	295.55	
1855	2.00	530	308	0.00	355.33	242.39	295.27	
1856	1.90	478	268	0.01	339.91	220.96	265.96	0.01
1857	1.80	461	288	0.00	324.49	213.96	250.97	
1858	2.00	455	324	0.00	355.33	211.49	264.59	
1859	2.00	3500	1800	0.00	355.33	1466.03	1510.00	
1860	1.20	828	273	0.00	231.96	365.16	352.85	
1861	1.20	43	36	0.00	231.96	41.74	31.78	
1862	1.40	40	36	0.00	262.80	40.51	46.63	
1863	1.50	53	36	0.00	278.22	45.86	59.99	
1864	1.50	52	36	0.00	278.22	45.45	59.58	
1865	1.50	47	36	0.00	278.22	43.39	57.53	
1866	1.50	45	36	0.00	278.22	42.57	56.71	
1867	1.50	45	36	0.00	278.22	42.57	56.71	
1868	1.60	43	36	0.01	293.64	41.74	63.93	0.01
1869	1.60	39	36	0.00	293.64	40.10	62.30	
1870	1.60	39	36	0.00	293.64	40.10	62.30	
1871	1.60	40	36	0.00	293.64	40.51	62.71	
1872	1.60	39	36	0.00	293.64	40.10	62.30	
1873	1.60	38	36	0.00	293.64	39.68	61.89	
1874	1.50	45	36	0.00	278.22	42.57	56.71	
1875	1.50	30	54	0.00	278.22	36.39	50.58	
1876	1.30	37	36	0.00	247.38	39.27	37.37	
1877	1.40	481	219	0.00	262.80	222.20	227.00	
1878	1.50	185	72	0.00	278.22	100.25	113.97	
1879	14.00	50	36	0.00	2205.90	44.63	1063.51	
1880	1.40	36	36	0.00	262.80	38.86	44.99	
1881	1.50	40	36	0.00	278.22	40.51	54.67	
1882	1.40	36	36	0.00	262.80	38.86	44.99	
1883	1.50	33	36	0.00	278.22	37.62	51.81	
1884	1.50	36	36	0.00	278.22	38.86	53.03	
1885	1.50	32	36	0.00	278.22	37.21	51.40	
1886	1.50	25	36	0.00	278.22	34.33	48.53	
1887	1.50	30	36	0.00	278.22	36.39	50.58	

No	Cr(VI) Inlet	Debit air	Injeksi FeSO4	Cr(VI) Outlet	Injeksi Prediksi			Cr(VI) prediksi
					Prediksi 1	Prediksi 2	Prediksi 3	
	ppm	m ³ /jam	L/jam	ppm	L/jam	L/jam	L/jam	ppm
1888	1.50	30	36	0.00	278.22	36.39	50.58	
1889	1.70	30	36	0.00	309.06	36.39	66.65	
1890	1.70	24	36	0.00	309.06	33.92	64.20	
1891	1.70	22	36	0.00	309.06	33.09	63.38	
1892	1.70	22	36	0.00	309.06	33.09	63.38	
1893	1.80	12	36	0.00	324.49	28.97	67.33	
1894	1.80	21	36	0.00	324.49	32.68	71.01	
1895	1.40	18	36	0.00	262.80	31.44	37.63	
1896	1.50	20	36	0.00	278.22	32.27	46.49	
1897	0.50	400	108	0.01	124.01	188.83	121.53	0.01
1898	0.51	32	36	0.00	125.55	37.21	-28.18	
1899	0.51	19	36	0.00	125.55	31.86	-33.50	
1900	0.51	10	36	0.00	125.55	28.15	-37.18	
1901	1.30	45	36	0.00	247.38	42.57	40.64	
1902	1.10	35	36	0.00	216.54	38.45	20.47	
1903	1.50	1350	532	0.00	278.22	580.23	590.46	
1904	1.40	32	36	0.00	262.80	37.21	43.36	
1905	1.20	32	36	0.00	231.96	37.21	27.28	
1906	1.20	27	36	0.00	231.96	35.15	25.24	
1907	1.20	17	36	0.00	231.96	31.03	21.15	
1908	1.10	12	36	0.00	216.54	28.97	11.06	

LAMPIRAN B

HASIL UJI VALIDASI PREDIKSI

DOSIS INJEKSI FERROSULFAT

Uji validasi terdiri dari uji RMSE, uji MSE, uji MAE, dan uji MAPE yang dilakukan pada hasil prediksi menggunakan 3 skenario prediksi.

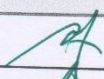
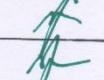
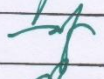

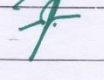

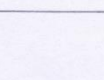
Uji Validasi	Prediksi Injeksi			Prediksi Cr(VI)
	Prediksi Injeksi 1	Prediksi Injeksi 2	Prediksi Injeksi 3	Outlet
RMSE	419.71	188.75	185.23	0.038
MSE	176158.75	35627.59	34311.29	0.0014
MAE	249.76	68.91	69.47	0.011
MAPE	388.20%	31.01%	44.40%	58.18

LAMPIRAN C
KARTU KONSULTASI TUGAS AKHIR

Lampiran B 10
Kartu Konsultasi Tugas Akhir

JUDUL: ANALISIS PENGGUNAAN DOSIS FERROSULFAT TERHADAP PENURUNAN KADAR KROMIUM HEKSAVALEN PADA WATER TREATMENT PT. VALE INDONESIA Tbk.

(Konsultasi minimal 8 kali)

TANGGAL	MATERI KONSULTASI	PARAF DOSEN
4 April 2022	Konsultasi mengenai metode penelitian	
6 April 2022	Perbaikan Rumusan masalah	
7 April 2022	Perbaikan Tujuan Penelitian	
8 April 2022	Konsultasi mengenai metode penelitian	
22 April 2022	Penambahan metode analisis data	
13 Juni 2022	Konsultasi mengenai analisis data	
14 Juni 2022	Perbaikan hasil dan pembahasan	
17 Juni 2022	Perbaikan judul penelitian Konsultasi mengenai power point presentasi	