

LAMPIRAN

Pandu Reza Wiguna , 2019 EVALUASI SISTEM DRAINASE DI RUAS JALAN

RANCAEKEK – GARUT KECAMATAN RANCAEKEK KABUPATEN BANDUNG

Universitas Pendidikan Indonesia | repository.upi.edu |
perpustakaan.upi.edu

Lampiran 1 Nilai k untuk distribusi Log Pearson III

Nilai k untuk distribusi Log Pearson III

Koef.	Return Periode							
	2	5	10	25	50	100	200	1000
Cx	Peluang							
	50	20	10	4	2	1	0.5	0.1
3.0	-0.396	0.420	1.180	2.278	3.152	4.051	4.970	7.250
2.5	-0.360	0.518	1.250	2.262	3.048	3.845	4.652	6.600
2.2	-0.330	0.574	1.284	2.240	2.970	3.705	4.444	6.200
2.0	-0.307	0.609	1.302	2.219	2.912	3.605	4.298	5.910
1.8	-0.282	0.643	1.318	2.193	2.848	3.499	4.147	5.660
1.6	-0.254	0.675	1.329	2.163	2.780	3.388	3.990	5.390
1.4	-0.225	0.705	1.337	2.128	2.706	3.271	3.828	5.110
1.2	-0.195	0.732	1.340	2.087	2.626	3.149	3.661	4.820
1.0	-0.164	0.758	1.340	2.043	2.542	3.022	3.489	4.540
0.9	-0.148	0.769	1.339	2.018	2.498	2.957	3.401	4.395
0.8	-0.132	0.780	1.336	1.998	2.453	2.891	3.312	4.250
0.7	-0.116	0.790	1.333	1.967	2.407	2.824	3.223	4.105
0.6	-0.099	0.800	1.328	1.939	2.359	2.755	3.132	3.960
0.5	-0.083	0.808	1.323	1.910	2.311	2.686	3.041	3.815
0.4	-0.066	0.816	1.317	1.880	2.261	2.615	2.949	3.670
0.3	-0.050	0.824	1.309	1.849	2.211	2.544	2.856	3.525
0.2	-0.033	0.830	1.301	1.818	2.159	2.472	2.763	3.380
0.1	-0.017	0.836	1.292	1.785	2.107	2.400	2.670	3.235
0.0	0.000	0.842	1.282	1.751	2.054	2.326	2.576	3.090
-0.1	0.017	0.836	1.270	1.716	2.000	2.252	2.482	2.950
-0.2	0.033	0.850	1.258	1.680	1.945	2.178	2.388	2.810
-0.3	0.050	0.853	1.245	1.643	1.890	2.104	2.294	2.675
-0.4	0.050	0.855	1.231	1.606	1.834	2.029	2.201	2.540
-0.5	0.083	0.856	1.216	1.567	1.777	1.955	2.108	2.400
-0.6	0.099	0.857	1.200	1.528	1.720	1.880	2.016	2.275
-0.7	0.116	0.857	1.183	1.488	1.663	1.806	1.926	2.150
-0.8	0.132	0.856	1.166	1.448	1.606	1.733	1.837	2.035
-0.9	0.148	0.854	1.147	1.407	1.549	1.660	1.749	1.910
-1.0	0.164	0.852	1.128	1.366	1.492	1.588	1.664	1.800
-1.2	0.195	0.844	1.086	1.282	1.379	1.449	1.501	1.625
-1.4	0.225	0.832	1.041	1.198	1.270	1.318	1.351	1.465
-1.6	0.254	0.817	0.994	1.116	1.166	1.197	1.216	1.280
-1.8	0.282	0.799	0.945	1.035	1.069	1.087	1.097	1.130
-2.0	0.307	0.777	0.895	0.959	0.980	0.990	0.995	1.000
-2.2	0.330	0.752	0.844	0.888	0.900	0.905	0.907	0.910
-2.5	0.360	0.711	0.771	0.793	0.798	0.799	0.800	0.802
-3.0	0.396	0.636	0.660	0.666	0.666	0.667	0.667	0.668

Sumber : Suripin, 2004

Lampiran 2 Nilai faktor frekuensi k distribusi Log Normal

Nilai faktor frekuensi k distribusi Log-Normal

Cv	Periode Ulang T Tahun					
	2	5	10	20	50	100
0.050	-0.2500	0.8334	1.2965	1.6863	2.1341	2.4370
0.100	-0.0496	0.8222	1.3078	1.7247	2.2130	2.5489
0.150	-0.0738	0.8085	1.3156	1.7598	2.2899	2.6607
0.200	-0.0971	0.7926	1.3200	1.7911	2.3640	2.7716
0.250	-0.1191	0.7748	1.3209	1.8183	2.4318	2.8805
0.300	-0.1406	0.7547	1.3183	1.8414	2.5316	2.9866
0.350	-0.1604	0.7333	1.3126	1.8602	2.5638	3.0809
0.400	-0.1788	0.7100	1.3037	1.8746	2.6212	3.1870
0.450	-0.1957	0.6870	1.2920	1.8848	2.6734	3.2109
0.500	-0.2111	0.6626	1.2778	1.8909	2.7202	3.3673
0.550	-0.2251	0.6129	1.2513	1.8931	2.7615	3.4488
0.600	-0.2375	0.5879	1.2428	1.8916	2.7974	3.5241
0.650	-0.2485	0.5879	1.2226	1.8866	2.8279	3.5930
0.700	-0.2582	0.5631	1.2011	1.8786	2.8532	3.6568
0.750	-0.2667	0.5387	1.1781	1.8577	2.8735	3.7118
0.800	-0.2739	0.5148	1.1548	1.8543	2.8891	3.7617
0.850	-0.2801	0.4914	1.1306	1.8388	2.9002	3.8056
0.900	-0.2852	0.4886	1.1060	1.8212	2.9071	3.8437
0.950	-0.2895	0.4466	1.0810	1.8021	2.9102	3.8762
1.000	-0.2929	0.4254	1.0560	1.7815	2.9098	3.9035

Sumber : Suripin, 2004

Lampiran 3 Nilai kritis distribusi chi-kuadrat

Nilai kritis distribusi chi-kuadrat

dk	α derajat kepercayaan							
	0.995	0.99	0.975	0.95	0.05	0.025	0.01	0.005
1	3.9E-05	0.00016	0.00098	0.00393	3.841	5.024	6.635	7.879
2	0.0100	0.0201	0.0506	0.103	5.991	7.378	9.21	10.579
3	0.0717	0.115	0.216	0.352	7.815	9.348	11.345	12.838
4	0.207	0.297	0.484	0.711	9.488	11.143	13.277	14.86
5	0.412	0.554	0.831	1.145	11.07	12.832	15.086	16.75
6	0.676	0.872	1.237	1.635	12.592	14.449	16.812	18.548
7	0.989	1.239	1.69	2.167	14.067	16.013	18.475	20.278
8	1.344	1.646	2.18	2.733	15.507	17.535	20.09	21.955
9	1.735	2.088	2.7	3.325	16.919	19.023	21.666	23.589
10	2.156	2.558	3.247	3.94	18.307	20.483	23.209	25.188
11	2.603	3.053	3.816	4.575	19.675	21.92	24.725	26.757
12	3.074	3.571	4.404	5.226	21.026	23.337	26.217	28.3
13	3.565	4.107	5.009	5.892	22.362	24.736	27.688	29.819
14	4.075	4.66	5.629	6.571	23.685	26.119	29.141	31.319
15	4.601	5.229	6.262	7.261	24.996	27.488	30.578	32.801
16	5.142	5.812	6.908	7.962	26.296	28.845	32	34.267
17	5.692	6.408	7.015	8.672	27.587	30.191	33.409	35.718
18	6.265	7.015	8.231	9.39	28.869	31.526	34.805	37.156
19	6.844	7.633	8.907	10.117	30.144	32.852	36.191	38.582
20	7.434	8.26	9.591	10.851	31.41	34.17	37.566	39.997
21	8.034	8.897	10.283	11.591	32.671	35.479	38.932	41.401
22	8.643	9.542	10.982	12.338	33.924	36.781	40.289	42.796
23	9.260	10.196	11.689	13.091	36.172	38.076	41.683	44.181
24	9.886	10.856	12.401	13.848	36.415	39.364	42.98	45.558
25	10.520	11.524	13.12	14.611	37.652	40.646	44.314	46.928
26	11.160	12.198	13.844	15.379	38.885	41.923	45.642	48.29
27	11.808	12.879	14.573	16.151	40.113	43.194	46.963	49.645
28	12.461	13.565	15.308	16.928	41.337	44.461	48.278	50.993
29	13.121	14.256	16.047	17.708	42.557	45.722	49.588	52.336
30	13.787	14.953	16.791	18.493	43.773	46.979	50.892	53.672

Sumber : Suripin, 2004

Lampiran 4 Nilai delta kritis (Do) uji Smirnov-Kolmogorov

Nilai delta kritis (Do) uji Smirnov-Kolmogorov

Jumlah data (n)	Derajat kepercayaan (α)			
	0.2	0.1	0.05	0.01
5	0.45	0.51	0.56	0.67
10	0.32	0.37	0.41	0.49
15	0.27	0.3	0.34	0.4
20	0.23	0.26	0.29	0.36
25	0.21	0.24	0.27	0.32
30	0.19	0.22	0.24	0.29
35	0.18	0.2	0.23	0.27
40	0.17	0.19	0.21	0.25
45	0.16	0.18	0.2	0.24
50	0.15	0.17	0.19	0.23
n>50	$1.07/n^{0.5}$	$1.22/n^{0.5}$	$1.36/n^{0.5}$	$1.63/n^{0.5}$

Sumber : Suripin, 2004

Lampiran 5 Hasil Uji Konsistensi RAPS Stasiun Rancaekek

No	Tahun	Curah Hujan Maksimum (mm)				
		Rancaekek	$Y_i - \bar{Y}$	S_k^*	D_y^2	S_k^{**}
1	2005	81.00	-18.42	-18.42	28.26	0.63
2	2006	81.00	-18.42	-36.83	28.26	1.26
3	2007	68.00	-31.42	-68.25	82.25	2.33
4	2008	68.00	-31.42	-99.67	82.25	3.40
5	2009	87.00	-12.42	-112.08	12.85	3.83
6	2010	115.00	15.58	-96.50	20.24	3.30
7	2011	89.00	-10.42	-106.92	9.04	3.65
8	2012	130.00	30.58	-76.33	77.95	2.61
9	2013	130.00	30.58	-45.75	77.95	1.56
10	2014	95.00	-4.42	-50.17	1.63	1.71
11	2015	85.00	-14.42	-64.58	17.32	2.21
12	2016	164.00	64.58	0.00	347.58	0.00
Jumlah		1193.00				
$\bar{Y} =$		99.42				
N =		12.00				
$D_y =$		29.27				
$R_{hit} =$		3.83				
$R_{krit} =$		4.92				
$Q_{hit} =$		3.83				
$Q_{krit} =$		4.56				
Hasil Uji		Konsisten				

Berdasarkan tabel nilai Qkritis dan Rkritis pada 99% dengan jumlah data (n) adalah sebanyak 12 data, maka

$$R_{kritis\ 99\%} = 1,42$$

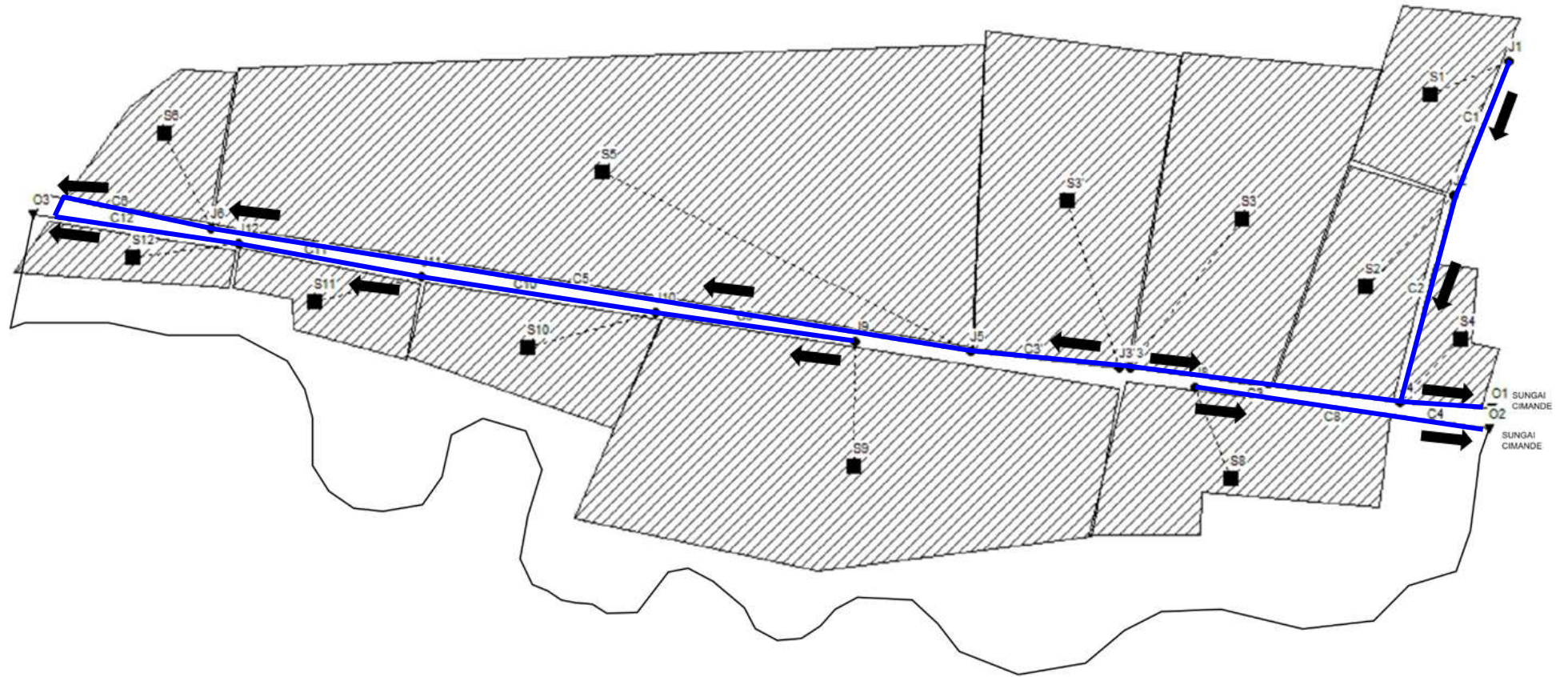
$$Q_{kritis\ 99\%} = 1,316$$

Lampiran 6 Foto-foto pengukuran saluran drainase eksisting



Sumber : Dokumentasi Lapangan

Lampiran 7 Arah Aliran Drainase



Keterangan : — Saluran Drainase

Arah aliran Drainase

Pandu Reza Wiguna , 2019 EVALUASI SISTEM DRAINASE DI RUAS JALAN RANCAEKEK – GARUT KECAMATAN RANCAEKEK KABUPATEN BANDUNG