LAMPIRAN

Lampiran 1 Nilai K untuk Distribusi Log Person III

Kemencengan (Cs)	Periode Ulang (tahun)							
	2	5	10	25	50	100	200	1000
	Peluang (%)							
	50	20	10	4	2	1	0,5	0,1
3	-0,396	0,42	1,18	2,278	3,152	4,051	4,97	7,25
2,5	-0,36	0,518	1,25	2,262	3,048	3,845	4,652	6,6
2,2	-0,33	0,574	1,284	2,24	2,97	3,705	4,444	6,2
2	-0,307	0,609	1,302	2,219	2,912	3,605	4,298	5,91
1,8	-0,282	0,643	1,318	2,193	2,848	3,499	4,147	5,66
1,6	-0,254	0,675	1,329	2,163	2,78	3,388	3,99	5,39
1,4	-0,225	0,705	1,337	2,128	2,706	3,271	3,828	5,11
1,2	-0,195	0,732	1,34	2,087	2,626	3,149	3,661	4,82
1	-0,164	0,758	1,34	2,043	2,542	3,022	3,489	4,54
0,9	-0,148	0,769	1,339	2,018	2,498	2,957	3,401	4,395
0,8	-1,32	0,78	1,336	1,998	2,453	2,891	3,312	4,25
0,7	-0,116	0,79	1,333	1,967	2,407	2,824	3,223	4,105
0,6	-0,099	0,8	1,328	1,939	2,359	2,755	3,132	3,96
0,5	-0,083	0,808	1,323	1,91	2,311	2,686	3,041	3,815
0,4	-0,066	0,816	1,317	1,88	2,261	2,615	2,949	3,67
0,3	-0,05	0,824	1,309	1,849	2,211	2,544	2,856	3,525
0,2	-0,033	0,83	1,301	1,818	2,159	2,472	2,763	3,38
0,1	-0,017	0,836	1,292	1,785	2,107	2,4	2,67	3,235
0	0	0,842	1,282	1,751	2,054	2,326	2,576	3,09
-0,1	0,017	0,836	1,27	1,761	2	2,252	2,482	3,95
-0,2	0,033	0,85	1,258	1,68	1,945	2,178	2,388	2,81
-0,3	0,05	0,853	1,245	1,643	1,89	2,104	2,294	2,675
-0,4	0,066	0,855	1,231	1,606	1,834	2,029	2,201	2,54
-0,5	0,083	0,856	1,216	1,567	1,777	1,955	2,108	2,4
-0,6	0,099	0,857	1,2	1,528	1,72	1,88	2,016	2,275
-0,7	0,116	0,857	1,183	1,488	1,663	1,806	1,926	2,15
-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	1,66	1,749	1,91
-1	0,164	0,852	1,128	1,366	1,492	1,588	1,664	1,8
-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	1,27	1,318	1,351	1,465
-1,6	0,254	0,817	0,994	1,116	1,166	1,197	1,216	1,28
-1,8	0,282	0,799	0,945	1,035	1,069	1,087	1,097	1,13
-2	0,307	0,777	0,895	0,959	0,98	0,99	1,995	1
-2,2	0,33	0,752	0,844	0,888	0,9	0,905	0,907	0,91
-2,5	0,36	0,711	0,771	0,793	0,798	0,779	0,8	0,802
-3	0,396	0,636	0,66	0,666	0,666	0,667	0,667	0,668

Lampiran 2 Tabel Derajat Kepercayaan

dk	α							
	derajat kepercayaan							
	0,995	0,99	0,975	0,95	0,05	0,025	0,01	0,005
1	3,93E-05	0,000157	0,000982	0,00393	3,841	5,024	6,635	7,879
2	0,01	0,0201	0,0506	0,103	5,991	7,378	9,21	10,597
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	27,388	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	27,448	30,578	32,801
16	5,142	5,812	6,908	7,962	26,296	28,845	32	34,267
17	5,697	6,408	7,564	8,672	27,587	30,191	33,409	35,718
18	6,625	7,015	8,231	9,39	28,869	31,526	34,805	37,156
19	6,844	7,633	8,907	10,117	30,114	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	9,26	10,196	11,689	13,091	36,172	38,076	41,638	44,181
24	9,886	10,856	12,401	13,848	36,415	39,364	42,98	45,558
25	10,52	11,524	13,12	14,611	37,652	40,646	44,314	46,928
26	11,16	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	43,733	46,979	50,892	53,672

Lampiran 3 Tabel D Kritis Smirnov-Kolomogrof

N	Level of Significance (α)				
	20	**15**	**10**	**5**	**1**
1	0,9	0,925	0,95	0,975	0,995
2	0,684	0,726	0,776	0,842	0,929
3	0,565	0,597	0,642	0,708	0,829
4	0,494	0,525	0,564	0,624	0,734
5	0,446	0,474	0,51	0,563	0,669
6	0,41	0,436	0,47	0,521	0,618
7	0,381	0,405	0,438	0,486	0,577
8	0,358	0,381	0,411	0,4457	0,543
9	0,339	0,36	0,388	0,432	0,514
10	0,322	0,342	0,368	0,409	0,486
11	0,307	0,326	0,352	0,391	0,468
12	0,295	0,313	0,338	0,375	0,45
13	0,284	0,302	0,325	0,361	0,433
14	0,274	0,292	0,314	0,349	0,418
15	0,266	0,283	0,304	0,338	0,404
16	0,258	2,74	0,295	0,328	0,391
17	0,25	0,266	0,286	0,318	0,38
18	0,244	0,259	0,278	0,309	0,37
19	0,237	0,252	0,272	0,301	0,361
20	0,231	0,246	0,264	0,294	0,352
25	0,21		0,24	0,27	0,32

Lampiran 4 Banjir Kala Ulang 2 Tahun SRTM

t	U (t,1)	Q akibat hujan netto (m3/det)				Base Flow	Qbanjir
(jam)	(m3/det/mm)	70,777	10,654	4,350	1,330		
		(mm)	(mm)	(mm)	(mm)	(m3/det)	(m3/det)
0	0,000	0,000				13,619	13,619
1	3,645	257,998	0,000			13,619	271,616
1,711	6,238	441,539	38,836	0,000		13,619	493,993
2	5,665	400,944	66,464	15,858	0,000	13,619	496,885
3	4,056	287,045	60,354	27,140	4,849	13,619	393,006
4	2,903	205,502	43,208	24,645	8,299	13,619	295,272
5	2,079	147,124	30,934	17,644	7,536	13,619	216,856
6	1,488	105,329	22,146	12,632	5,395	13,619	159,121
7	1,065	75,407	15,855	9,043	3,862	13,619	117,787
8	0,763	53,986	11,351	6,474	2,765	13,619	88,195
9	0,546	38,650	8,126	4,635	1,980	13,619	67,010
10	0,391	27,670	5,818	3,318	1,417	13,619	51,842
11	0,280	19,810	4,165	2,376	1,015	13,619	40,984
12	0,200	14,182	2,982	1,701	0,726	13,619	33,210
13	0,143	10,153	2,135	1,218	0,520	13,619	27,645
14	0,103	7,269	1,528	0,872	0,372	13,619	23,660
15	0,074	5,204	1,094	0,624	0,267	13,619	20,808
15,355	0,065	4,622	0,783	0,447	0,191	13,619	19,661

Lampiran 5 Banjir Kala Ulang 5 Tahun SRTM

t	U (t,1)	Q akibat hujan netto (m3/det)				Base Flow	Qbanjir
(jam)	(m3/det/mm)	78,235	12,592	5,710	2,413		
		(mm)	(mm)	(mm)	(mm)	(m3/det)	(m3/det)
0	0,000	0,000				13,619	13,619
1	3,645	285,182	0,000			13,619	298,801
1,711	6,238	488,062	45,902	0,000		13,619	547,583
2	5,665	443,190	78,557	20,815	0,000	13,619	556,181
3	4,056	317,290	71,334	35,623	8,795	13,619	446,661
4	2,903	227,155	51,070	32,348	15,052	13,619	339,243
5	2,079	162,626	36,562	23,158	13,668	13,619	249,632
6	1,488	116,427	26,176	16,580	9,785	13,619	182,586
7	1,065	83,353	18,740	11,870	7,005	13,619	134,586
8	0,763	59,674	13,416	8,498	5,015	13,619	100,222
9	0,546	42,722	9,605	6,084	3,591	13,619	75,620
10	0,391	30,586	6,876	4,356	2,571	13,619	58,007
11	0,280	21,897	4,923	3,118	1,840	13,619	45,397
12	0,200	15,677	3,524	2,232	1,318	13,619	36,370
13	0,143	11,223	2,523	1,598	0,943	13,619	29,907
14	0,103	8,035	1,806	1,144	0,675	13,619	25,280
15	0,074	5,752	1,293	0,819	0,483	13,619	21,967
15,355	0,065	5,109	0,926	0,586	0,346	13,619	20,586

Lampiran 6 Banjir Kala Ulang 10 Tahun SRTM

t	U (t,1)	Q akibat hujan netto (m3/det)				Base Flow	Qbanjir
(jam)	(m3/det/mm)	81,938	13,555	6,385	2,950		
		(mm)	(mm)	(mm)	(mm)	(m3/det)	(m3/det)
0	0,000	0,000				13,619	13,619
1	3,645	298,681	0,000			13,619	312,300
1,711	6,238	511,164	49,411	0,000		13,619	574,193
2	5,665	464,168	84,561	23,276	0,000	13,619	585,624
3	4,056	332,309	76,787	39,835	10,754	13,619	473,303
4	2,903	237,907	54,973	36,172	18,405	13,619	361,077
5	2,079	170,323	39,357	25,897	16,713	13,619	265,908
6	1,488	121,938	28,176	18,540	11,965	13,619	194,238
7	1,065	87,298	20,172	13,273	8,566	13,619	142,928
8	0,763	62,499	14,442	9,503	6,133	13,619	106,194
9	0,546	44,744	10,339	6,803	4,390	13,619	79,896
10	0,391	32,034	7,402	4,871	3,143	13,619	61,068
11	0,280	22,934	5,299	3,487	2,250	13,619	47,589
12	0,200	16,419	3,794	2,496	1,611	13,619	37,939
13	0,143	11,754	2,716	1,787	1,153	13,619	31,030
14	0,103	8,415	1,945	1,279	0,826	13,619	26,084
15	0,074	6,025	1,392	0,916	0,591	13,619	22,543
15,355	0,065	5,351	0,997	0,656	0,423	13,619	21,045

Lampiran 7 Banjir Kala Ulang 25 Tahun SRTM

t	U (t,1)	Q akibat hujan netto (m3/det)				Base Flow	Qbanjir
(jam)	(m3/det/mm)	85,698	14,532	7,071	3,496		
		(mm)	(mm)	(mm)	(mm)	(m3/det)	(m3/det)
0	0,000	0,000				13,619	13,619
1	3,645	312,385	0,000			13,619	326,003
1,711	6,238	534,617	52,972	0,000		13,619	601,207
2	5,665	485,464	90,657	25,775	0,000	13,619	615,515
3	4,056	347,555	82,322	44,111	12,743	13,619	500,350
4	2,903	248,823	58,936	40,055	21,809	13,619	383,242
5	2,079	178,138	42,194	28,677	19,804	13,619	282,431
6	1,488	127,533	30,208	20,530	14,178	13,619	206,067
7	1,065	91,304	21,626	14,698	10,150	13,619	151,397
8	0,763	65,366	15,483	10,523	7,267	13,619	112,257
9	0,546	46,797	11,084	7,533	5,203	13,619	84,236
10	0,391	33,503	7,936	5,393	3,725	13,619	64,175
11	0,280	23,986	5,681	3,861	2,667	13,619	49,813
12	0,200	17,172	4,067	2,764	1,909	13,619	39,531
13	0,143	12,294	2,912	1,979	1,367	13,619	32,170
14	0,103	8,801	2,085	1,417	0,978	13,619	26,900
15	0,074	6,301	1,492	1,014	0,701	13,619	23,127
15,355	0,065	5,596	1,069	0,726	0,502	13,619	21,511

Lampiran 8 Banjir Kala Ulang 50 Tahun SRTM

t	U (t,1)	Q akibat hujan netto (m3/det)				Base Flow	Qbanjir
(jam)	(m3/det/mm)	88,019	15,136	7,494	3,833		
		(mm)	(mm)	(mm)	(mm)	(m3/det)	(m3/det)
0	0,000	0,000				13,619	13,619
1	3,645	320,849	0,000			13,619	334,467
1,711	6,238	549,102	55,172	0,000		13,619	617,893
2	5,665	498,618	94,422	27,318	0,000	13,619	633,976
3	4,056	356,972	85,741	46,752	13,972	13,619	517,055
4	2,903	255,564	61,384	42,454	23,912	13,619	396,932
5	2,079	182,964	43,946	30,393	21,713	13,619	292,636
6	1,488	130,988	31,462	21,759	15,545	13,619	213,373
7	1,065	93,777	22,524	15,578	11,129	13,619	156,628
8	0,763	67,137	16,126	11,153	7,967	13,619	116,002
9	0,546	48,065	11,545	7,984	5,704	13,619	86,917
10	0,391	34,411	8,265	5,716	4,084	13,619	66,095
11	0,280	24,636	5,917	4,092	2,924	13,619	51,187
12	0,200	17,637	4,236	2,930	2,093	13,619	40,515
13	0,143	12,627	3,033	2,098	1,498	13,619	32,874
14	0,103	9,040	2,171	1,502	1,073	13,619	27,404
15	0,074	6,472	1,554	1,075	0,768	13,619	23,488
15,355	0,065	5,748	1,113	0,770	0,550	13,619	21,799

Lampiran 9 Banjir Kala Ulang 100 Tahun SRTM

t	U (t,1)	Q akibat hujan netto (m3/det)				Base Flow	Qbanjir
(jam)	(m3/det/mm)	90,031	15,659	7,861	4,125		
		(mm)	(mm)	(mm)	(mm)	(m3/det)	(m3/det)
0	0,000	0,000				13,619	13,619
1	3,645	328,183	0,000			13,619	341,801
1,711	6,238	561,653	57,079	0,000		13,619	632,350
2	5,665	510,015	97,684	28,655	0,000	13,619	649,973
3	4,056	365,131	88,703	49,040	15,036	13,619	531,530
4	2,903	261,406	63,505	44,532	25,733	13,619	408,794
5	2,079	187,146	45,465	31,881	23,368	13,619	301,478
6	1,488	133,982	32,549	22,824	16,729	13,619	219,704
7	1,065	95,921	23,303	16,341	11,977	13,619	161,160
8	0,763	68,672	16,683	11,699	8,575	13,619	119,247
9	0,546	49,164	11,944	8,375	6,139	13,619	89,240
10	0,391	35,198	8,551	5,996	4,395	13,619	67,758
11	0,280	25,199	6,122	4,293	3,146	13,619	52,378
12	0,200	18,040	4,383	3,073	2,253	13,619	41,367
13	0,143	12,915	3,138	2,200	1,613	13,619	33,485
14	0,103	9,246	2,246	1,575	1,155	13,619	27,841
15	0,074	6,620	1,608	1,128	0,827	13,619	23,801
15,35505	0,065	5,879	1,151	0,807	0,592	13,619	22,048

Lampiran 10 Banjir Kala Ulang 200 Tahun SRTM

t	U (t,1)	Q akibat hujan netto (m3/det)				Base Flow	Qbanjir
(jam)	(m3/det/mm)	91,794	16,117	8,182	4,381		
		(mm)	(mm)	(mm)	(mm)	(m3/det)	(m3/det)
0	0,000	0,000				13,619	13,619
1	3,645	334,606	0,000			13,619	348,225
1,711	6,238	572,646	58,748	0,000		13,619	645,013
2	5,665	519,998	100,542	29,826	0,000	13,619	663,985
3	4,056	372,278	91,298	51,045	15,969	13,619	544,209
4	2,903	266,522	65,362	46,352	27,329	13,619	419,184
5	2,079	190,810	46,794	33,184	24,816	13,619	309,223
6	1,488	136,605	33,501	23,757	17,767	13,619	225,249
7	1,065	97,799	23,984	17,008	12,720	13,619	165,129
8	0,763	70,016	17,171	12,177	9,106	13,619	122,089
9	0,546	50,126	12,293	8,718	6,519	13,619	91,275
10	0,391	35,886	8,801	6,241	4,667	13,619	69,214
11	0,280	25,692	6,301	4,468	3,341	13,619	53,421
12	0,200	18,393	4,511	3,199	2,392	13,619	42,114
13	0,143	13,168	3,229	2,290	1,713	13,619	34,019
14	0,103	9,427	2,312	1,640	1,226	13,619	28,224
15	0,074	6,749	1,655	1,174	0,878	13,619	24,075
15,35505	0,065	5,994	1,185	0,840	0,628	13,619	22,267

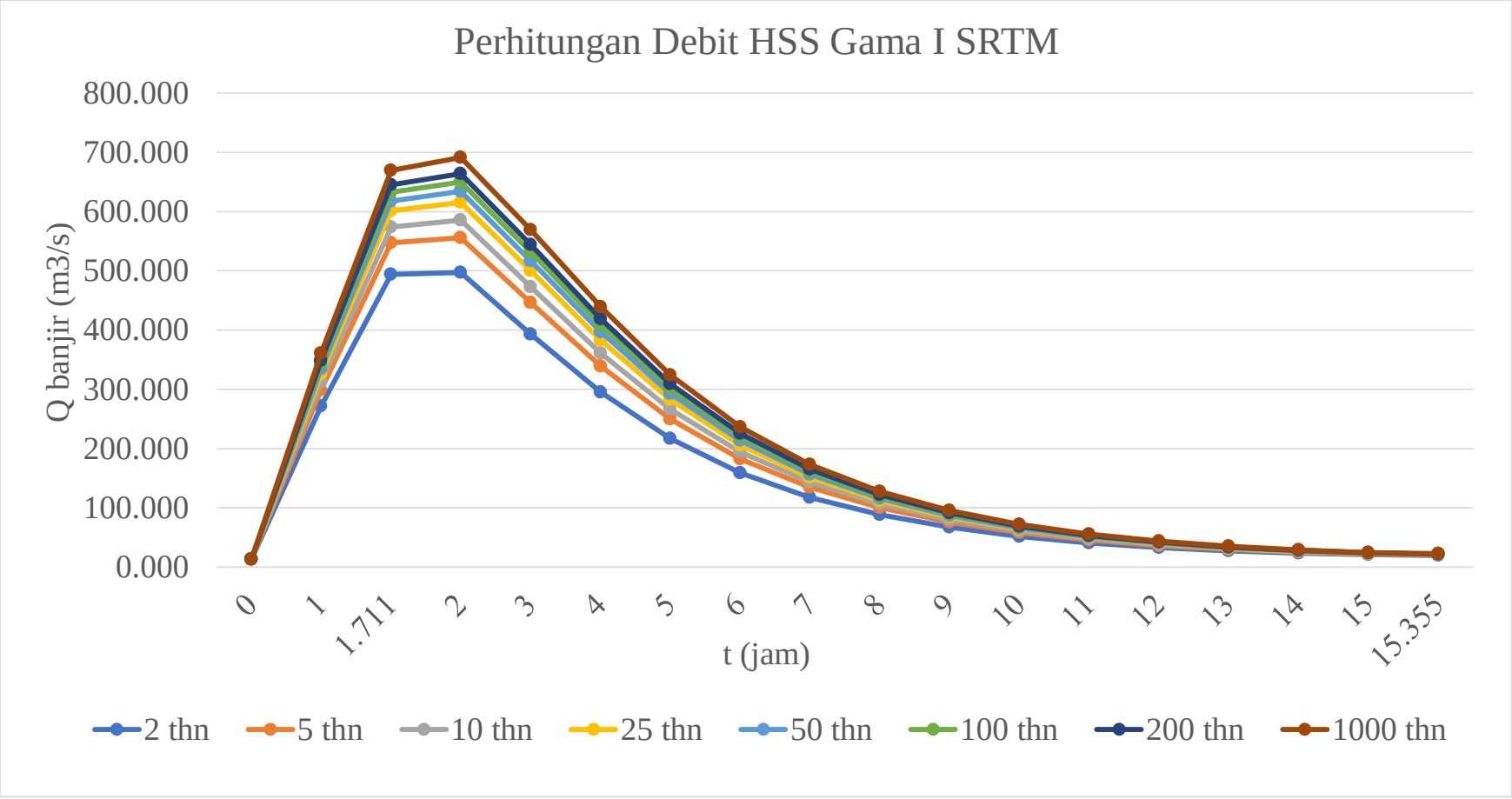
Lampiran 11 Banjir Kala Ulang 1000 Tahun SRTM

t	U (t,1)	Q akibat hujan netto (m3/det)				Base Flow	Qbanjir
(jam)	(m3/det/mm)	95,243	17,013	8,811	4,881		
		(mm)	(mm)	(mm)	(mm)	(m3/det)	(m3/det)
0	0,000	0,000				13,619	13,619
1	3,645	347,180	0,000			13,619	360,798
1,711	6,238	594,165	62,016	0,000		13,619	669,800
2	5,665	539,538	106,135	32,119	0,000	13,619	691,410
3	4,056	386,268	96,377	54,968	17,794	13,619	569,025
4	2,903	276,538	68,999	49,914	30,453	13,619	439,522
5	2,079	197,980	49,398	35,735	27,653	13,619	324,384
6	1,488	141,738	35,365	25,583	19,797	13,619	236,102
7	1,065	101,474	25,319	18,316	14,173	13,619	172,900
8	0,763	72,647	18,126	13,113	10,147	13,619	127,652
9	0,546	52,010	12,977	9,388	7,264	13,619	95,257
10	0,391	37,235	9,290	6,721	5,201	13,619	72,066
11	0,280	26,657	6,651	4,812	3,723	13,619	55,462
12	0,200	19,085	4,762	3,445	2,666	13,619	43,575
13	0,143	13,663	3,409	2,466	1,908	13,619	35,065
14	0,103	9,782	2,441	1,766	1,366	13,619	28,973
15	0,074	7,003	1,747	1,264	0,978	13,619	24,611
15,35505	0,065	6,219	1,251	0,905	0,700	13,619	22,694

Lampiran 12 Rekapitulasi Hasil Perhitungan Metode HSS Gama 1 Data SRTM

t	Q banjir							
(jam)	2 thn	5 thn	10 thn	25 thn	50 thn	100 thn	200 thn	1000 thn
0	13,619	13,619	13,619	13,619	13,619	13,619	13,619	13,619
1	271,616	298,801	312,300	326,003	334,467	341,801	348,225	360,798
1,711	493,993	547,583	574,193	601,207	617,893	632,350	645,013	669,800
2	496,885	556,181	585,624	615,515	633,976	649,973	663,985	691,410
3	393,006	446,661	473,303	500,350	517,055	531,530	544,209	569,025
4	295,272	339,243	361,077	383,242	396,932	408,794	419,184	439,522
5	216,856	249,632	265,908	282,431	292,636	301,478	309,223	324,384
6	159,121	182,586	194,238	206,067	213,373	219,704	225,249	236,102
7	117,787	134,586	142,928	151,397	156,628	161,160	165,129	172,900
8	88,195	100,222	106,194	112,257	116,002	119,247	122,089	127,652
9	67,010	75,620	79,896	84,236	86,917	89,240	91,275	95,257
10	51,842	58,007	61,068	64,175	66,095	67,758	69,214	72,066
11	40,984	45,397	47,589	49,813	51,187	52,378	53,421	55,462
12	33,210	36,370	37,939	39,531	40,515	41,367	42,114	43,575
13	27,645	29,907	31,030	32,170	32,874	33,485	34,019	35,065
14	23,660	25,280	26,084	26,900	27,404	27,841	28,224	28,973
15	20,808	21,967	22,543	23,127	23,488	23,801	24,075	24,611
15,355	19,661	20,586	21,045	21,511	21,799	22,048	22,267	22,694
Qmaks	**496,885**	**556,181**	**585,624**	**615,515**	**633,976**	**649,973**	**663,985**	**691,410**

Lampiran 13 Grafik Rekapitulasi Hasil Perhitungan Metode HSS Gama 1 Data SRTM



Lampiran 14 Banjir Kala Ulang 2 Tahun Data DEMNAS

t	U (t,1)	Q akibat hujan netto (m3/det)				Base Flow	Qbanjir
(jam)	(m3/det/mm)	70,762	10,638	4,335	1,315		
		(mm)	(mm)	(mm)	(mm)	(m3/det)	(m3/det)
0	0,000	0,000				14,475	14,475
1	1,789	126,581	0,000			14,475	141,057
1,875	3,354	237,327	19,030	0,000		14,475	270,833
2	3,249	229,873	35,680	7,754	0,000	14,475	287,783
3	2,517	178,119	34,559	14,539	2,352	14,475	244,044
4	1,950	138,017	26,779	14,082	4,409	14,475	197,762
5	1,511	106,944	20,750	10,912	4,271	14,475	157,351
6	1,171	82,866	16,078	8,455	3,309	14,475	125,184
7	0,907	64,209	12,458	6,551	2,564	14,475	100,258
8	0,703	49,753	9,653	5,076	1,987	14,475	80,945
9	0,545	38,552	7,480	3,933	1,540	14,475	65,980
10	0,422	29,872	5,796	3,048	1,193	14,475	54,384
11	0,327	23,147	4,491	2,362	0,924	14,475	45,399
12	0,253	17,935	3,480	1,830	0,716	14,475	38,437
13	0,196	13,897	2,696	1,418	0,555	14,475	33,042
14	0,152	10,768	2,089	1,099	0,430	14,475	28,862
15	0,118	8,344	1,619	0,851	0,333	14,475	25,623
16	0,091	6,465	1,254	0,660	0,258	14,475	23,113
17	0,071	5,010	0,972	0,511	0,200	14,475	21,168
17,519	0,062	4,388	0,753	0,396	0,155	14,475	20,168

Lampiran 15 Banjir Kala Ulang 5 Tahun Data DEMNAS

t	U (t,1)	Q akibat hujan netto (m3/det)				Base Flow	Qbanjir
(jam)	(m3/det/mm)	78,219	12,577	5,695	2,397		
		(mm)	(mm)	(mm)	(mm)	(m3/det)	(m3/det)
0	0,000	0,000				14,475	14,475
1	1,789	139,922	0,000			14,475	154,397
1,875	3,354	262,339	22,498	0,000		14,475	299,312
2	3,249	254,100	42,181	10,187	0,000	14,475	320,943
3	2,517	196,891	40,856	19,099	4,288	14,475	275,610
4	1,950	152,563	31,658	18,499	8,040	14,475	225,235
5	1,511	118,214	24,530	14,334	7,787	14,475	179,342
6	1,171	91,599	19,008	11,107	6,034	14,475	142,223
7	0,907	70,976	14,728	8,606	4,675	14,475	113,462
8	0,703	54,997	11,412	6,669	3,623	14,475	91,176
9	0,545	42,615	8,843	5,167	2,807	14,475	73,907
10	0,422	33,020	6,852	4,004	2,175	14,475	60,527
11	0,327	25,586	5,309	3,102	1,685	14,475	50,159
12	0,253	19,825	4,114	2,404	1,306	14,475	42,125
13	0,196	15,362	3,188	1,863	1,012	14,475	35,900
14	0,152	11,903	2,470	1,443	0,784	14,475	31,076
15	0,118	9,223	1,914	1,118	0,608	14,475	27,339
16	0,091	7,147	1,483	0,867	0,471	14,475	24,443
17	0,071	5,538	1,149	0,671	0,365	14,475	22,199
17,519	0,062	4,851	0,890	0,520	0,283	14,475	21,020

Lampiran 16 Banjir Kala Ulang 10 Tahun Data DEMNAS

t	U (t,1)	Q akibat hujan netto (m3/det)				Base Flow	Qbanjir
(jam)	(m3/det/mm)	81,923	13,539	6,370	2,935		
		(mm)	(mm)	(mm)	(mm)	(m3/det)	(m3/det)
0	0,000	0,000				14,475	14,475
1	1,789	146,546	0,000			14,475	161,021
1,875	3,354	274,759	24,220	0,000		14,475	313,454
2	3,249	266,130	45,409	11,395	0,000	14,475	337,409
3	2,517	206,213	43,983	21,364	5,250	14,475	291,284
4	1,950	159,785	34,081	20,693	9,842	14,475	238,877
5	1,511	123,811	26,408	16,034	9,533	14,475	190,261
6	1,171	95,936	20,462	12,424	7,387	14,475	150,684
7	0,907	74,337	15,855	9,627	5,724	14,475	120,018
8	0,703	57,600	12,286	7,459	4,435	14,475	96,256
9	0,545	44,632	9,520	5,780	3,437	14,475	77,844
10	0,422	34,584	7,376	4,479	2,663	14,475	63,577
11	0,327	26,797	5,716	3,470	2,063	14,475	52,522
12	0,253	20,764	4,429	2,689	1,599	14,475	43,956
13	0,196	16,089	3,432	2,084	1,239	14,475	37,319
14	0,152	12,467	2,659	1,614	0,960	14,475	32,176
15	0,118	9,660	2,060	1,251	0,744	14,475	28,191
16	0,091	7,485	1,597	0,969	0,576	14,475	25,103
17	0,071	5,800	1,237	0,751	0,447	14,475	22,710
17,519	0,062	5,080	0,959	0,582	0,346	14,475	21,442

Lampiran 17 Banjir Kala Ulang 25 Tahun Data DEMNAS

t	U (t,1)	Q akibat hujan netto (m3/det)				Base Flow	Qbanjir
(jam)	(m3/det/mm)	85,682	14,516	7,055	3,480		
		(mm)	(mm)	(mm)	(mm)	(m3/det)	(m3/det)
0	0,000	0,000				14,475	14,475
1	1,789	153,271	0,000			14,475	167,746
1,875	3,354	287,367	25,968	0,000		14,475	327,810
2	3,249	278,342	48,687	12,621	0,000	14,475	354,125
3	2,517	215,676	47,158	23,662	6,226	14,475	307,197
4	1,950	167,118	36,540	22,919	11,673	14,475	252,726
5	1,511	129,493	28,314	17,759	11,306	14,475	201,347
6	1,171	100,338	21,939	13,761	8,761	14,475	159,274
7	0,907	77,748	17,000	10,663	6,788	14,475	126,674
8	0,703	60,244	13,172	8,262	5,260	14,475	101,413
9	0,545	46,680	10,207	6,402	4,076	14,475	81,840
10	0,422	36,171	7,909	4,961	3,158	14,475	66,673
11	0,327	28,027	6,128	3,844	2,447	14,475	54,921
12	0,253	21,717	4,748	2,978	1,896	14,475	45,815
13	0,196	16,828	3,679	2,308	1,469	14,475	38,759
14	0,152	13,039	2,851	1,788	1,138	14,475	33,292
15	0,118	10,103	2,209	1,386	0,882	14,475	29,056
16	0,091	7,829	1,712	1,074	0,684	14,475	25,773
17	0,071	6,066	1,326	0,832	0,530	14,475	23,229
17,519	0,062	5,314	1,028	0,645	0,410	14,475	21,872

Lampiran 18 Banjir Kala Ulang 50 Tahun Data DEMNAS

t	U (t,1)	Q akibat hujan netto (m3/det)				Base Flow	Qbanjir
(jam)	(m3/det/mm)	88,004	15,120	7,479	3,817		
		(mm)	(mm)	(mm)	(mm)	(m3/det)	(m3/det)
0	0,000	0,000				14,475	14,475
1	1,789	157,424	0,000			14,475	171,900
1,875	3,354	295,155	27,047	0,000		14,475	336,678
2	3,249	285,885	50,711	13,378	0,000	14,475	364,449
3	2,517	221,520	49,118	25,082	6,829	14,475	317,025
4	1,950	171,647	38,060	24,295	12,803	14,475	261,279
5	1,511	133,002	29,491	18,825	12,401	14,475	208,194
6	1,171	103,057	22,851	14,587	9,609	14,475	164,579
7	0,907	79,855	17,706	11,303	7,446	14,475	130,785
8	0,703	61,876	13,720	8,758	5,769	14,475	104,599
9	0,545	47,945	10,631	6,786	4,470	14,475	84,308
10	0,422	37,151	8,237	5,258	3,464	14,475	68,586
11	0,327	28,787	6,383	4,074	2,684	14,475	56,403
12	0,253	22,305	4,946	3,157	2,080	14,475	46,963
13	0,196	17,284	3,832	2,446	1,611	14,475	39,649
14	0,152	13,392	2,969	1,896	1,249	14,475	33,981
15	0,118	10,377	2,301	1,469	0,968	14,475	29,590
16	0,091	8,041	1,783	1,138	0,750	14,475	26,187
17	0,071	6,230	1,381	0,882	0,581	14,475	23,550
17,51923	0,062	5,458	1,070	0,683	0,450	14,475	22,137

Lampiran 19 Banjir Kala Ulang 100 Tahun Data DEMNAS

t	U (t,1)	Q akibat hujan netto (m3/det)				Base Flow	Qbanjir
(jam)	(m3/det/mm)	90,016	15,643	7,845	4,109		
		(mm)	(mm)	(mm)	(mm)	(m3/det)	(m3/det)
0	0,000	0,000				14,475	14,475
1	1,789	161,024	0,000			14,475	175,499
1,875	3,354	301,903	27,983	0,000		14,475	344,361
2	3,249	292,421	52,465	14,034	0,000	14,475	373,395
3	2,517	226,585	50,817	26,313	7,351	14,475	325,541
4	1,950	175,571	39,376	25,486	13,782	14,475	268,691
5	1,511	136,042	30,511	19,748	13,350	14,475	214,126
6	1,171	105,414	23,641	15,302	10,344	14,475	169,176
7	0,907	81,680	18,319	11,857	8,015	14,475	134,347
8	0,703	63,291	14,194	9,187	6,211	14,475	107,359
9	0,545	49,041	10,999	7,119	4,812	14,475	86,447
10	0,422	38,000	8,522	5,516	3,729	14,475	70,243
11	0,327	29,445	6,604	4,274	2,889	14,475	57,687
12	0,253	22,815	5,117	3,312	2,239	14,475	47,958
13	0,196	17,679	3,965	2,566	1,735	14,475	40,420
14	0,152	13,698	3,072	1,988	1,344	14,475	34,579
15	0,118	10,614	2,381	1,541	1,042	14,475	30,053
16	0,091	8,225	1,845	1,194	0,807	14,475	26,546
17	0,071	6,373	1,429	0,925	0,625	14,475	23,828
17,519	0,062	5,582	1,107	0,717	0,485	14,475	22,367

Lampiran 20 Banjir Kala Ulang 200 Tahun Data DEMNAS

t	U (t,1)	Q akibat hujan netto (m3/det)				Base Flow	Qbanjir
(jam)	(m3/det/mm)	91,778	16,101	8,167	4,365		
		(mm)	(mm)	(mm)	(mm)	(m3/det)	(m3/det)
0	0,000	0,000				14,475	14,475
1	1,789	164,176	0,000			14,475	178,651
1,875	3,354	307,813	28,802	0,000		14,475	351,090
2	3,249	298,146	54,001	14,609	0,000	14,475	381,231
3	2,517	231,020	52,305	27,390	7,809	14,475	333,000
4	1,950	179,008	40,529	26,530	14,640	14,475	275,183
5	1,511	138,706	31,404	20,557	14,180	14,475	219,323
6	1,171	107,477	24,334	15,929	10,988	14,475	173,203
7	0,907	83,280	18,855	12,343	8,514	14,475	137,467
8	0,703	64,530	14,610	9,564	6,597	14,475	109,776
9	0,545	50,001	11,321	7,410	5,112	14,475	88,320
10	0,422	38,744	8,772	5,742	3,961	14,475	71,694
11	0,327	30,021	6,797	4,449	3,069	14,475	58,812
12	0,253	23,262	5,267	3,448	2,378	14,475	48,830
13	0,196	18,025	4,081	2,671	1,843	14,475	41,095
14	0,152	13,967	3,162	2,070	1,428	14,475	35,102
15	0,118	10,822	2,450	1,604	1,106	14,475	30,458
16	0,091	8,386	1,899	1,243	0,857	14,475	26,860
17	0,071	6,498	1,471	0,963	0,664	14,475	24,071
17,519	0,062	5,692	1,140	0,746	0,515	14,475	22,568

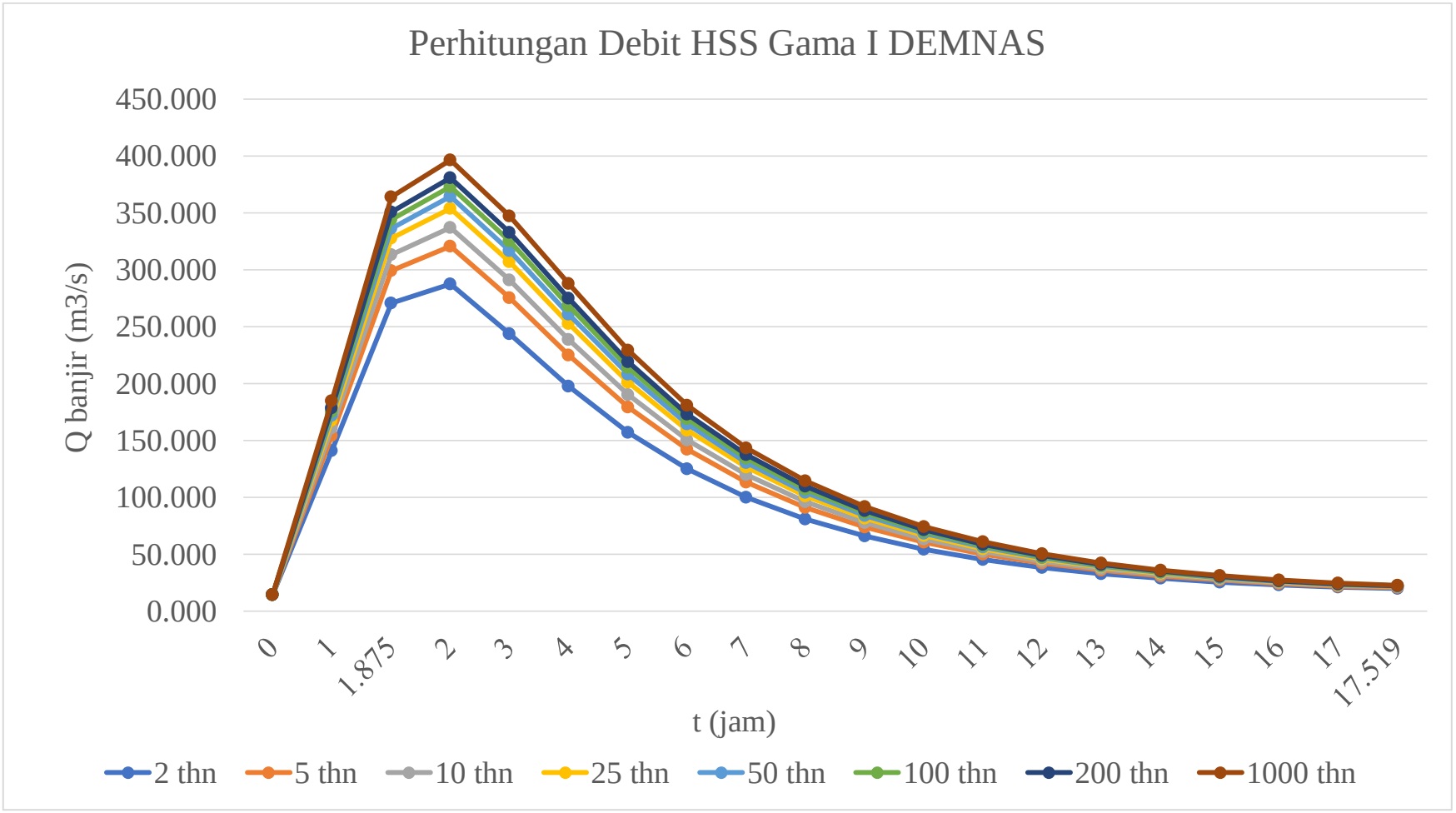
Lampiran 21 Banjir Kala Ulang 1000 Tahun Data DEMNAS

t	U (t,1)	Q akibat hujan netto (m3/det)				Base Flow	Qbanjir
(jam)	(m3/det/mm)	95,227	16,998	8,796	4,866		
		(mm)	(mm)	(mm)	(mm)	(m3/det)	(m3/det)
0	0,000	0,000				14,475	14,475
1	1,789	170,346	0,000			14,475	184,822
1,875	3,354	319,382	30,406	0,000		14,475	364,263
2	3,249	309,351	57,008	15,734	0,000	14,475	396,568
3	2,517	239,703	55,217	29,500	8,704	14,475	347,600
4	1,950	185,736	42,786	28,573	16,319	14,475	287,889
5	1,511	143,919	33,153	22,140	15,807	14,475	229,494
6	1,171	111,517	25,689	17,155	12,248	14,475	181,084
7	0,907	86,409	19,905	13,293	9,491	14,475	143,574
8	0,703	66,955	15,424	10,300	7,354	14,475	114,508
9	0,545	51,881	11,951	7,981	5,698	14,475	91,986
10	0,422	40,200	9,260	6,184	4,415	14,475	74,535
11	0,327	31,149	7,175	4,792	3,421	14,475	61,013
12	0,253	24,136	5,560	3,713	2,651	14,475	50,536
13	0,196	18,702	4,308	2,877	2,054	14,475	42,417
14	0,152	14,492	3,338	2,229	1,592	14,475	36,126
15	0,118	11,229	2,587	1,727	1,233	14,475	31,252
16	0,091	8,701	2,004	1,339	0,956	14,475	27,475
17	0,071	6,742	1,553	1,037	0,740	14,475	24,548
17,519	0,062	5,906	1,203	0,804	0,574	14,475	22,962

Lampiran 22 Rekapitulasi Hasil Perhitungan Metode HSS Gama 1 Data DEMNAS

t	Q banjir							
(jam)	2 thn	5 thn	10 thn	25 thn	50 thn	100 thn	200 thn	1000 thn
0	14,475	14,475	14,475	14,475	14,475	14,475	14,475	14,475
1	141,057	154,397	161,021	167,746	171,900	175,499	178,651	184,822
1,875	270,833	299,312	313,454	327,810	336,678	344,361	351,090	364,263
2	287,783	320,943	337,409	354,125	364,449	373,395	381,231	396,568
3	244,044	275,610	291,284	307,197	317,025	325,541	333,000	347,600
4	197,762	225,235	238,877	252,726	261,279	268,691	275,183	287,889
5	157,351	179,342	190,261	201,347	208,194	214,126	219,323	229,494
6	125,184	142,223	150,684	159,274	164,579	169,176	173,203	181,084
7	100,258	113,462	120,018	126,674	130,785	134,347	137,467	143,574
8	80,945	91,176	96,256	101,413	104,599	107,359	109,776	114,508
9	65,980	73,907	77,844	81,840	84,308	86,447	88,320	91,986
10	54,384	60,527	63,577	66,673	68,586	70,243	71,694	74,535
11	45,399	50,159	52,522	54,921	56,403	57,687	58,812	61,013
12	38,437	42,125	43,956	45,815	46,963	47,958	48,830	50,536
13	33,042	35,900	37,319	38,759	39,649	40,420	41,095	42,417
14	28,862	31,076	32,176	33,292	33,981	34,579	35,102	36,126
15	25,623	27,339	28,191	29,056	29,590	30,053	30,458	31,252
16	23,113	24,443	25,103	25,773	26,187	26,546	26,860	27,475
17	21,168	22,199	22,710	23,229	23,550	23,828	24,071	24,548
17,519	20,168	21,020	21,442	21,872	22,137	22,367	22,568	22,962
Qmaks	**287,783**	**320,943**	**337,409**	**354,125**	**364,449**	**373,395**	**381,231**	**396,568**

Lampiran 23 Grafik Rekapitulasi Hasil Perhitungan Metode HSS Gama 1 Data SRTM



Lampiran 10 Formulir Survey Lokasi Sampel Data SRTM

Titik	Titik Koordinat		Akurasi		Keterangan
	X	Y	Sesuai	Tidak Sesuai	
1	7°19'07.49"S	108°13'27.87"E			
2	7°19'07.54"S	108°12'34.74"E			
3	7°18'34.87"S	108°12'34.78"E			
4	7°19'14.90"S	108°11'39.97"E			
5	7°18'48.14"S	108°11'25.46"E			
6	7°18'53.90"S	108°11'05.80"E			
7	7°19'07.38"S	108°11'10.94"E			
8	7°19'26.01"S	108°11'00.64"E			
9	7°19'42.03"S	108°10'59.39"E			
10	7°19'36.51"S	108°10'45.45"E			
11	7°18'54.53"S	108°10'50.90"E			
12	7°18'41.42"S	108°10'35.31"E			
13	7°19'02.31"S	108°10'26.65"E			
14	7°19'08.84"S	108°09'54.64"E			
15	7°18'46.07"S	108°09'56.97"E			
16	7°17'45.06"S	108°10'45.58"E			

Lampiran 11 Formulir Survey Lokasi Sampel Data DEMNAS

Titik	Titik Koordinat		Akurasi		Keterangan
	X	Y	Sesuai	Tidak Sesuai	
1	7°19'16.23"S	108°12'43.61"E			
2	7°19'14.14"S	108°12'28.24"E			
3	7°19'16.42"S	108°12'21.55"E			
4	7°19'27.44"S	108°12'28.90"E			
5	7°19'31.53"S	108°12'14.15"E			
6	7°19'10.52"S	108°12'07.85"E			
7	7°19'15.54"S	108°11'51.26"E			
8	7°19'40.83"S	108°11'15.86"E			
9	7°19'36.45"S	108°10'49.03"E			
10	7°19'07.78"S	108°11'13.29"E			
11	7°19'01.74"S	108°11'27.75"E			
12	7°18'43.14"S	108°12'02.42"E			
13	7°17'55.31"S	108°11'21.62"E			
14	7°18'04.00"S	108°11'56.41"E			
15	7°18'18.88"S	108°12'16.47"E			
16	7°18'40.69"S	108°12'39.22"E			
17	7°18'49.08"S	108°12'38.93"E			
18	7°19'17.30"S	108°12'27.26"E			

Lampiran 12 Dokumentasi Survey Lokasi Sampel Data SRTM

Lokasi 1

Lokasi 2

Lokasi 4

Lokasi 5

Lokasi 6

Lokasi 7

Lokasi 8

Lokasi 9

Lokasi 10

Lokasi 11


GPS Map Camera
Kota Tasikmalaya,Jawa Barat,Indonesia
Bungursari, Kota Tasikmalaya, Jawa Barat, Indonesia
Lat -7.311446, Long 108.176757
06/02/2023 05:12 PM GMT+07:00
Note : Captured by GPS Map Camera

Lokasi 12

Lokasi 13

Lokasi 14

Lokasi 15

Lokasi 16

Lampiran 13 Dokumentasi Survey Lokasi Sampel Data SRTM

Lokasi 1

Lokasi 2

Lokasi 3

Lokasi 4

Lokasi 5

Lokasi 6

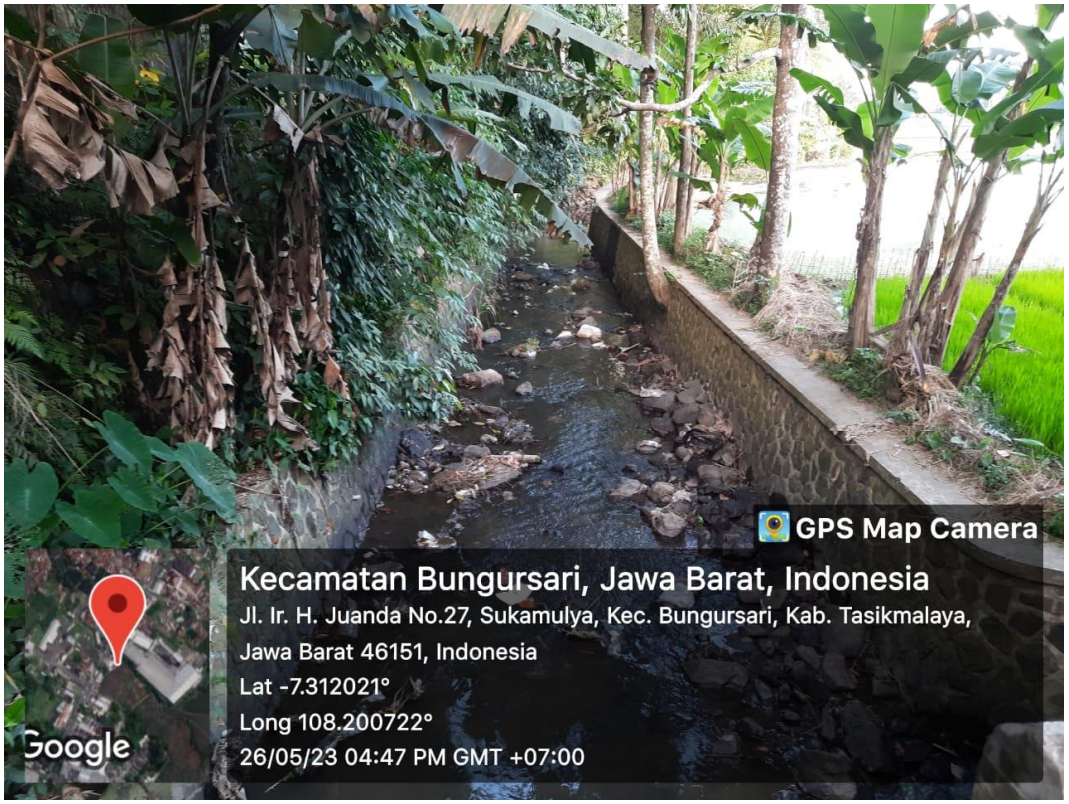
Lokasi 7

Lokasi 8

Lokasi 9

Lokasi 10

Lokasi 11

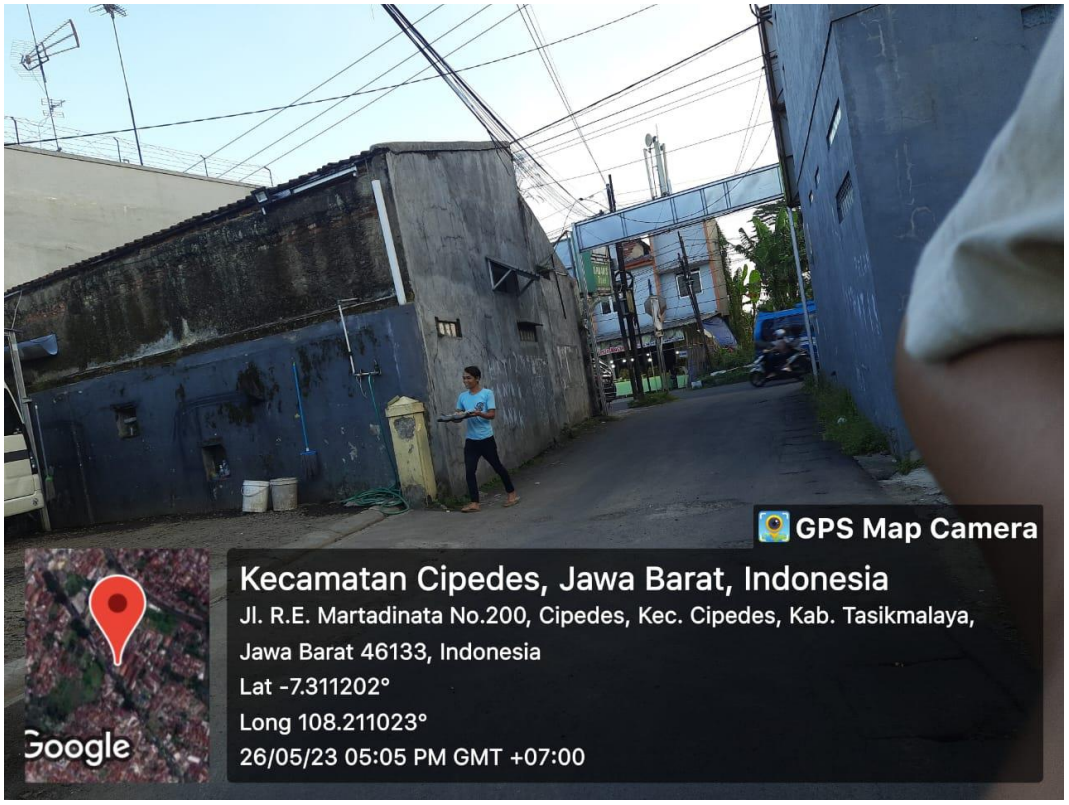


Lokasi 12

Lokasi 13

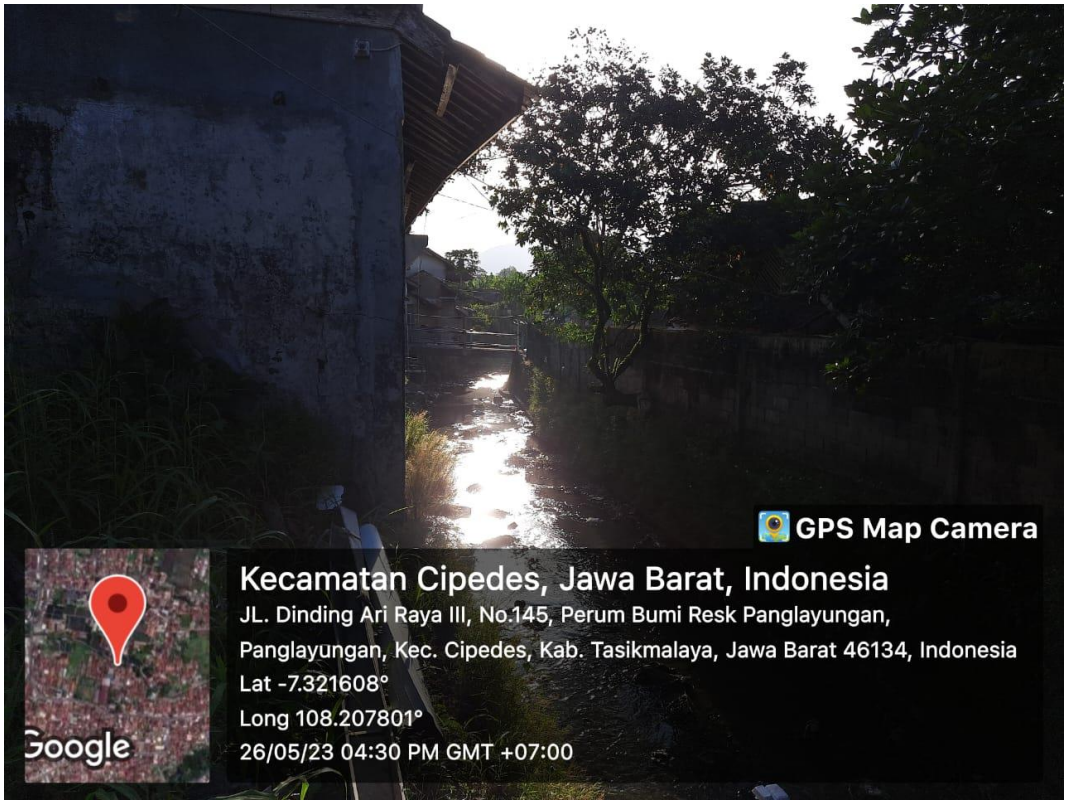
Lokasi 14

Lokasi 15



Lokasi 16

Lokasi 17



Lokasi 18