

LAMPIRAN

Lampiran 1 Tabel Hasil Debit Air Metode F.J. Mock Subdas Sungai Asin Tahun 2014

No	URAIAN	Satuan	Hitungan	2014													
				Jan	Feb	Mar	Apr	Mei	Jun	Jul	Agust	Sep	Okt	Nov	Des		
I Data Meteorologi																	
a	Jumlah Hari dalam 1 Bulan	hari	data	31	28	31	30	31	30	31	30	31	30	31	30	31	30
b	Curah Hujan (P)	mm/bulan	data	240	135.3333	292.3333	223.6667	111.6667	52	14.33333	0	0	4	239	356.3333		
c	Hari hujan (h)	hari	data	19.38095	15.28571	13.05714	12.47619	9.8	9.542857	5.761905	0	0	2.485714	10.71429	16.97143		
d	Temperatur	°C	data	28.87097	29.55172	29.29032	29.93333	29.35484	29.46667	29.37097	30.30645	30.81667	30.90323	30.26667	29.24194		
e	Kecerahan Matahari	%	data	31.58939	38.98143	43.44433	35.46885	45.91643	0	47.1078	51.05366	56.11111	51.56567	43.6205	50.46564		
f	Kelembaban Relatif (RH)	%	data	97.51613	97.93103	98.09677	97.13333	97.25806	97.13333	96.06452	95.77419	95.83333	96.16129	96.73333	96.87097		
g	Kecepatan Angin	m/det	data	0.084827	0.109515	0.130787	0.164043	0.164352	0.201196	0.266465	0.359506	0.477701	0.302457	0.040934	0.096625		
III Evapotranspirasi Terbatas (Et)																	
a	Evapotranspirasi (Eto)	mm/bulan	Eto	-9.06949	-9.43637	-10.8385	-6.8132	-9.75723	-0.09158	-9.2022	-9.58253	-10.3467	-10.2327	-9.87133	-13.1593		
b	Permukaan Lahan yang Terbuka (m)	%	ditetapkan	30	30	30	30	30	30	30	30	30	30	30	30		
c	(m/20) x (18-h)	-	hitungan	-0.02071	0.040714	0.074143	0.082857	0.123	0.126857	0.183571	0.27	0.27	0.232714	0.109286	0.015429		
d	E = Eto x [(m/20) x (18-h)]	mm/bulan	(v) x (w)	0.187868	-0.3842	-0.8036	-0.56452	-1.20014	-0.01162	-1.68926	-2.58728	-2.79362	-2.38129	-1.07879	-0.20303		
e	Et = Eto - E	mm/bulan	(v) - (y)	-9.25735	-9.05218	-10.0349	-6.24868	-8.55709	-0.07996	-7.51294	-6.99524	-7.55311	-7.85138	-8.79253	-12.9563		
IV Keseimbangan Air																	
a	$\Delta s = P - Et$	mm/bulan	(b) - (z)	249.2574	144.3855	302.3683	229.9153	120.2238	52.07996	21.84627	6.995245	7.553111	11.85138	247.7925	369.2897		
b	Aliran Permukaan (PF=5%)	mm/bulan	PF x (b)	0	0	0	0	0	0	0	0	0	0	0	0		
c	Kandungan Air Tanah (SS)	mm/bulan	(z) - (aa)	0	0	0	0	0	0	0	0	0	0	0	0		
d	Kapasitas Kelembaban Tanah (SMC)	mm/bulan	SMC + (ac)	99.9917	99.9917	99.9917	99.9917	99.9917	99.9917	99.9917	99.9917	99.9917	99.9917	99.9917	99.9917		
e	Kelebihan Air (WS)	mm/bulan	(aa) - (ac)	249.2574	144.3855	302.3683	229.9153	120.2238	52.07996	21.84627	6.995245	7.553111	11.85138	247.7925	369.2897		
V Aliran dan Penyimpanan Air Tanah																	
a	Infiltrasi (I)	mm/bulan	(ae) x i	187.608	108.6744	227.5829	173.0499	90.48858	39.19892	16.44299	5.265097	5.684985	8.920157	186.5055	277.9525		
b	Volume Air Tanah (G)	mm/bulan	$0,5 [1+k] x (af)$	172.2211	99.76129	208.9174	158.857	83.06704	35.98397	15.0944	4.833273	5.218724	8.18856	171.209	255.1559		
c	$k \times V_{(n-1)}$	mm/bulan	hitungan	378.8528	460.6799	468.5106	566.3079	606.2143	576.2168	511.78	440.4498	372.2422	315.5451	270.6308	369.3638		
d	Tampungan (Vn)	mm/bulan	(ag) + (ah)	551.0739	560.4412	677.4281	725.1649	689.2813	612.2008	526.8744	445.2831	377.461	323.7337	441.8399	624.5197		
e	Perubahan Volume Tampungan (ΔV_n)	mm/bulan	$V_n - V_{(n-1)}$	97.88312	9.367268	116.9869	47.73682	-35.8835	-77.0806	-85.3264	-81.5912	-67.8222	-53.7273	118.1062	182.6798		
f	Aliran Dasar (BF)	mm/bulan	(af) - (aj)	89.72492	99.30709	110.5961	125.3131	126.3721	116.2795	101.7694	86.85633	73.50716	62.64745	68.39932	95.27271		
g	Limpasan Langsung (DR)	mm/bulan	(ab) + (ae) - (af)	61.64932	35.71115	74.78534	56.86542	29.73518	12.88104	5.403282	1.730148	1.868126	2.931226	61.28702	91.93714		
h	Total Limpasan	mm/bulan	(ak) + (al)	151.3742	135.0182	185.3814	182.1785	156.1073	129.1605	107.1727	88.58648	75.37528	65.57868	129.6863	186.6099		
VI Debit Aliran Sungai																	
a	Aliran / Debit sungai	m^3/dt	$A \times (am)$	10.45558	10.32506	12.80449	13.00271	10.7825	9.218632	7.402534	6.118764	5.379794	4.529591	9.256162	12.88935		
b	Volume Aliran	$m^3 \times 10^6$	Volume per bulan	28.00423	24.97837	34.29556	33.70303	28.87985	23.8947	19.82695	16.3885	13.94443	12.13206	23.99197	34.52282		

Lampiran 3 Tabel Hasil Debit Air Metode F.J. Mock Subdas Sungai Asin Tahun 2016

No	URAIAN	Satuan	Hitungan	2016													
				Jan	Feb	Mar	Apr	Mei	Jun	Jul	Agust	Sep	Okt	Nov	Des		
I Data Meteorologi																	
a	Jumlah Hari dalam 1 Bulan	hari	data	31	28	31	30	31	30	31	31	30	31	30	31	30	31
b	Curah Hujan (P)	mm/bulan	data	297.3333	384.6667	360.3333	405.3333	211.3333	169.3333	102	221	298	278	494.6667	197.3333		
c	Hari Hujan (h)	hari	data	11.7619	15.35238	16.50476	16.05714	3.133333	0.504762	0	0.428571	0.019048	0.066667	7.504762	13.5619		
d	Temperatur	°C	data	28.38387	34.30357	29.90161	29.7	29.96774	29.73333	28.64516	29.54839	30.46667	31.3871	30.16667	28.96774		
e	Kecerahan Matahari	%	data	46.19537	51.857	69.71904	0	30.97226	34.01361	47.1078	41.74347	45.83333	46.37075	62.52684	96.09129		
f	Kelembaban Relatif (RH)	%	data	97.96774	97.14286	95.80645	97.36667	96.87097	97.03333	97.19355	96.09677	96.4	95.51613	95.3	97.19355		
g	Kecepatan Angin	m/det	data	0.179249	0.092882	0.155839	0.165046	0.189703	0.198302	0.187575	0.305854	0.3451	0.438247	0.196644	0.067914		
III Evapotranspirasi Terbatas (Et)																	
a	Evapotranspirasi (Eto)	mm/bulan	Eto	146.2574	159.4933	164.5104	57.60021	85.15794	79.97007	94.39385	111.2694	137.5641	155.8425	171.7756	222.1261		
b	Permukaan Lahan yang Terbuka (m)	%	ditetapkan	30	30	30	30	30	30	30	30	30	30	30	30		
c	(m/20) x (18-h)	-	hitungan	0.093571	0.039714	0.022429	0.029143	0.223	0.262429	0.27	0.263571	0.269714	0.269	0.157429	0.066571		
d	E = Eto x [(m/20) x (18-h)]	mm/bulan	(v) x (w)	13.68552	6.334162	3.689733	1.678635	18.99022	20.98643	25.48634	29.32743	37.103	41.92164	27.04238	14.78725		
e	Et = Eto - E	mm/bulan	(v) - (y)	132.5719	153.1591	160.8207	55.92158	66.16772	58.98364	68.90751	81.94195	100.4611	113.9209	144.7332	207.3389		
IV Keseimbangan Air																	
a	Δs = P - Et	mm/bulan	(b) - (z)	164.7614	231.5075	199.5127	349.4118	145.1656	110.3497	33.09249	139.0581	197.5389	164.0791	349.9335	-10.0056		
b	Aliran Permukaan (PF=5%)	mm/bulan	PF x (b)	0	0	0	0	0	0	0	0	0	0	0	9.866667		
c	Kandungan Air Tanah (SS)	mm/bulan	(z) - (aa)	0	0	0	0	0	0	0	0	0	0	0	-19.8722		
d	Kapasitas Kelembaban Tanah (SMC)	mm/bulan	SMC+ (ac)	99.9917	99.9917	99.9917	99.9917	99.9917	99.9917	99.9917	99.9917	99.9917	99.9917	99.9917	99.9917		
e	Kelebihan Air (WS)	mm/bulan	(aa) - (ac)	164.7614	231.5075	199.5127	349.4118	145.1656	110.3497	33.09249	139.0581	197.5389	164.0791	349.9335	9.866667		
V Aliran dan Penyimpanan Air Tanah																	
a	Infiltrasi (I)	mm/bulan	(ae) x i	124.0106	174.2483	150.1668	262.9911	109.2615	83.05669	24.90766	104.6645	148.6812	123.4971	263.3837	7.426324		
b	Volume Air Tanah (G)	mm/bulan	0,5 [1+k] x (af)	113.8398	159.9571	137.8507	241.4215	100.3003	76.24469	22.86482	96.08035	136.4869	113.3683	241.782	6.817245		
c	k x V _(m3)	mm/bulan	hitungan	239.6305	295.4897	380.7387	433.5239	564.2325	555.5278	528.1413	460.6232	465.3861	503.1463	515.3862	632.968		
d	Tampungan (Vn)	mm/bulan	(ag) + (ah)	353.4703	455.4468	518.5894	674.9454	664.5327	631.7725	551.0061	556.7036	601.873	616.5146	757.1682	639.7853		
e	Perubahan Volume Tampungan (ΔVn)	mm/bulan	Vn - V(n-1)	66.81976	101.9765	63.14262	156.356	-10.4127	-32.7603	-80.7664	5.697457	45.16948	14.6416	140.6536	-117.383		
f	Aliran Dasar (BF)	mm/bulan	(af) - (aj)	57.19088	72.2718	87.02419	106.635	119.6742	115.817	105.674	98.96709	103.5117	108.8555	122.7302	124.8093		
g	Limpasan Langsung (DR)	mm/bulan	(ab) + (ae) - (af)	40.75077	57.25922	49.34587	86.4207	35.9041	27.29301	8.18483	34.3935	48.85769	40.58201	86.54974	12.30701		
h	Total Limpasan	mm/bulan	(ak) + (al)	97.94165	129.531	136.3701	193.0558	155.5783	143.11	113.8589	133.3606	152.3694	149.4375	209.2799	137.1163		
VI Debit Aliran Sungai																	
a	Aliran / Debit sungai	m ³ /dt	A x (am)	6.764936	9.905439	9.419228	13.77906	10.74596	10.21425	7.864356	9.211361	10.87513	10.32181	14.93703	9.47077		
b	Volume Aliran	m ³ 10 ⁶ %	Volume per bulan	18.11921	23.96324	25.22846	35.71531	28.78198	26.47534	21.06389	24.67171	28.18834	27.64594	38.71678	25.36651		

(Sumber : Hasil Analisis, 2023)

Lampiran 6 Tabel Hasil Debit Air Metode F.J. Mock Subdas Sungai Asin Tahun 2019

No	URAIAN	Satuan	Hitungan	2019													
				Jan	Feb	Mar	Apr	Mei	Jun	Jul	Agust	Sep	Okt	Nov	Des		
I Data Meteorologi																	
a	Jumlah Hari dalam 1 Bulan	hari	data	31	28	31	30	31	30	31	31	30	31	30	31	30	31
b	Curah Hujan (P)	mm/bulan	data	304.6667	328	436	247.3333	30.66667	0.666667	2.333333	0	0	0	26	394.3333		
c	Hari Hujan (h)	hari	data	18.89524	17.4	13.69524	8.666667	1.438095	0.885714	0.009615	0.028571	0.295238	0.514286	10.64762	12.45714		
d	Temperatur	°C	data	29.25806	28.17241	29.20968	29.9	30.20968	28.8	29.22581	29.90323	30.56667	31.09677	29.1	28.87097		
e	Kecerahan Matahari	%	data	57.60488	41.22634	54.1103	0	48.71279	37.75073	39.59585	54.89727	60.83333	32.4412	63.54569	56.42698		
f	Kelembaban Relatif (RH)	%	data	98.22581	97.89286	98.25806	98	97.74194	97.46667	97.96774	95.90323	97	95.74194	97.13333	97.70968		
g	Kecepatan Angin	m/det	data	0.005152	0.044229	0.028114	0.0201	0.065636	0.161844	0.092331	0.163878	0.201464	0.259297	0.112754	0.102337		
III Evapotranspirasi Terbatas (Et)																	
a	Evapotranspirasi (Eto)	mm/bulan	Eto	165.891	125.0052	140.3431	57.20577	102.6145	81.13002	88.33156	126.9902	157.8232	132.8172	168.0337	162.9207		
b	Permukaan Lahan yang Terbuka (m)	%	ditetapkan	97	129	0	0	95	167	83	266	419	242	224	288		
c	(m/20) x (18-h)	-	hitungan	120	217	160	82	101	300	415	221	360	184	226	315		
d	E = Eto x [(m/20) x (18-h)]	mm/bulan	(v) x (w)	168	158	86	15	122	154	382	358	324	344	234	330		
e	Et = Eto - E	mm/bulan	(v) - (y)	39	102	66	129	152	206	315	312	303	232	212	163		
IV Keseimbangan Air																	
a	Δs = P - Et	mm/bulan	(b) - (z)	265.6667	226	370	118.3333	-121.333	-205.333	-312.667	-312	-303	-232	-186	231.3333		
b	Aliran Permukaan (PF=5%)	mm/bulan	PF x (b)	0	0	0	0	1.533333	0.033333	0.116667	0	0	0	1.3	0		
c	Kandungan Air Tanah (SS)	mm/bulan	(z) - (aa)	0	0	0	0	-122.867	-205.367	-312.783	-312	-303	-232	-187.3	0		
d	Kapasitas Kelembaban Tanah (SMC)	mm/bulan	SMC+ (ac)	99.9917	99.9917	99.9917	99.9917	-122.867	-205.367	-312.783	-312	-303	-232	-187.3	99.9917		
e	Kelebihan Air (WS)	mm/bulan	(aa) - (ac)	265.6667	226	370	118.3333	1.533333	0.033333	0.116667	0	0	0	1.3	231.3333		
V Aliran dan Penyimpanan Air Tanah																	
a	Infiltrasi (I)	mm/bulan	(ae) x i	199.9588	170.103	278.4872	89.06571	1.154091	0.025089	0.087811	0	0	0	0.978468	174.1172		
b	Volume Air Tanah (G)	mm/bulan	0,5 [1+k] x (af)	183.5589	156.1518	255.6467	81.76088	1.059437	0.023031	0.080609	0	0	0	0.898218	159.8368		
c	k x V _(m3)	mm/bulan	hitungan	178.6323	302.7801	383.6522	534.4331	515.1181	431.5077	360.7457	301.639	252.1604	210.7979	176.2202	148.0653		
d	Tampungan (Vn)	mm/bulan	(ag) + (ah)	362.1913	458.9319	639.2989	616.194	516.1776	431.5307	360.8263	301.639	252.1604	210.7979	177.1184	307.902		
e	Perubahan Volume Tampungan (ΔVn)	mm/bulan	Vn - V(n-1)	148.5079	96.74063	180.367	-23.1049	-100.016	-84.6469	-70.7044	-59.1872	-49.4786	-41.3625	-33.6795	130.7836		
f	Aliran Dasar (BF)	mm/bulan	(af) - (aj)	51.45088	73.36234	98.12021	112.1706	101.1705	84.67194	70.79226	59.18723	49.4786	41.3625	34.65796	43.33362		
g	Limpasan Langsung (DR)	mm/bulan	(ab) + (ae) - (af)	65.70786	55.89703	91.51284	29.26762	1.912576	0.041578	0.145522	0	0	0	1.621532	57.21613		
h	Total Limpasan	mm/bulan	(ak) + (al)	117.1587	129.2594	189.633	141.4382	103.0831	84.71352	70.93778	59.18723	49.4786	41.3625	36.27949	100.5497		
VI Debit Aliran Sungai																	
a	Aliran / Debit sungai	m ³ /dt	A x (am)	8.092282	9.884666	13.09816	10.09494	7.120059	6.046297	4.899749	4.088126	3.531459	2.856953	2.589393	6.945081		
b	Volume Aliran	m ³ 10 ⁶ %	Volume per bulan	21.67437	23.91298	35.08211	26.16607	19.07036	15.672	13.12349	10.94964	9.153541	7.652063	6.711706	18.6017		

(Sumber : Hasil Analisis, 2023)

Lampiran 7 Tabel Hasil Debit Air Metode F.J. Mock Subdas Sungai Asin Tahun 2020

No	URAIAN	Satuan	Hitungan	2020													
				Jan	Feb	Mar	Apr	Mei	Jun	Jul	Agust	Sep	Okt	Nov	Des		
I Data Meteorologi																	
a	Jumlah Hari dalam 1 Bulan	hari	data	31	28	31	30	31	30	31	31	30	31	30	31	30	31
b	Curah Hujan (P)	mm/bulan	data	263.3333	351.3333	352.6667	188	213.3333	26	14.33333	23.66667	2.666667	100	345.3333	391.3333	391.3333	
c	Hari hujan (h)	hari	data	14.77143	15.59048	15.6381	9.752381	1.67619	0.047619	0.27619	0	0.019048	0.085714	3.895238	14.33333	28.87097	
d	Temperatur	°C	data	27.25	25.24194	28.85484	29.68333	29.52258	29.48333	28.66129	30.17742	31.63333	31.09677	29.1	28.87097		
e	Kececerahan Matahari	%	data	47.72279	53.10522	79.60458	49.03053	31.24663	43.53234	32.12808	32.46753	40.27778	32.4412	63.54569	56.42698		
f	Kelembaban Relatif (RH)	%	data	97.87097	88.48387	98.48387	96.86667	95.46667	96.31034	94.74194	94.09677	91.06667	88.12903	88.12903	88.12903		
g	Kecepatan Angin	m/det	data	0.165323	0.120482	0.09375	0.130478	0.131459	0.145718	0.175291	0.169878	0.379668	0.259297	0.112754	0.102337		
III Evapotranspirasi Terbatas (Et)																	
a	Evapotranspirasi (Eto)	mm/bulan	Eto	144.7189	135.7384	172.0987	109.5035	85.20255	88.07836	82.18936	103.0358	4147.063	10786.97	5719.816	6362.718		
b	Permukaan Lahan yang Terbuka (m)	%	ditetapkan	83	0	0	0	97	65	342	200	278	277	284	36		
c	(m/20) x (18-h)	-	hitungan	50	86	14	0	96	119	339	278	167	236	162	156		
d	E = Eto x [(m/20) x (18-h)]	mm/bulan	(v) x (w)	44	25	28	0	65	132	398	373	336	401	283	140		
e	Et = Eto - E	mm/bulan	(v) - (y)	105	17	0	0	135	102	236	223	207	271	216	69		
IV Keseimbangan Air																	
a	$\Delta s = P - Et$	mm/bulan	(b) - (z)	158.3333	334.3333	352.6667	188	78.33333	-76	-221.667	-199.333	-204.333	-171	129.3333	322.3333		
b	Aliran Permukaan (PF=5%)	mm/bulan	PF x (b)	0	0	0	0	1.3	0.716667	1.183333	0.133333	5	0	0	0		
c	Kandungan Air Tanah (SS)	mm/bulan	(z) - (aa)	0	0	0	0	0	-77.3	-222.383	-200.517	-204.467	-176	0	0		
d	Kapasitas Kelembaban Tanah (SMC)	mm/bulan	SMC + (ac)	99.9917	99.9917	99.9917	99.9917	99.9917	-77.3	-222.383	-200.517	-204.467	-176	99.9917	99.9917		
e	Kelebihan Air (WS)	mm/bulan	(aa) - (ac)	158.3333	334.3333	352.6667	188	78.33333	1.3	0.716667	1.183333	0.133333	5	129.3333	322.3333		
V Aliran dan Penyimpanan Air Tanah																	
a	Infiltrasi (I)	mm/bulan	(ae) x i	119.1724	251.642	265.4409	141.5016	58.95899	0.978468	0.539412	0.890657	0.100356	3.76334	97.34506	242.61		
b	Volume Air Tanah (G)	mm/bulan	0,5 [1+k] x (af)	109.3984	231.0033	243.6705	129.8962	54.1234	0.898218	0.495172	0.817609	0.092125	3.454685	89.36119	222.712		
c	$k \times V_{(n-1)}$	mm/bulan	hitungan	257.3961	306.6283	449.4425	579.4199	592.9652	540.945	452.9634	379.0766	317.5792	265.5629	224.89	262.7038		
d	Tampungan (Vn)	mm/bulan	(ag) + (ah)	366.7945	537.6315	693.1129	709.3161	647.0886	541.8433	453.4585	379.8942	317.6714	269.0176	314.2512	485.4158		
e	Perubahan Volume Tampungan (ΔVn)	mm/bulan	$Vn - V(n-1)$	58.89248	170.8371	155.4814	16.20312	-62.2275	-105.245	-88.3847	-73.5643	-62.2229	-48.6537	45.23356	171.1646		
f	Aliran Dasar (BF)	mm/bulan	(af) - (aj)	60.28001	80.80494	109.9595	125.2985	121.1865	106.2238	88.92414	74.45498	62.32322	52.41708	52.1115	71.44536		
g	Limpasan Langsung (DR)	mm/bulan	(ab) + (ae) - (af)	39.1609	82.69133	87.22575	46.49841	19.37434	1.621532	0.893921	1.47601	0.166311	6.23666	31.98827	79.72334		
h	Total Limpasan	mm/bulan	(ak) + (al)	99.44091	163.4963	197.1852	171.7969	140.5608	107.8453	89.81806	75.93099	62.48953	58.65374	84.09977	151.1687		
VI Debit Aliran Sungai																	
a	Aliran / Debit sungai	m ³ /dt	A x (am)	6.868492	12.50281	13.6198	12.26174	9.708688	7.697294	6.209831	5.244636	4.460094	4.051277	6.002492	10.44139		
b	Volume Aliran	m ³ 10 ⁶	Volume per bulan	18.39657	30.24681	36.47927	31.78242	26.00375	19.95139	16.61634	14.04723	11.56056	10.85094	15.55846	27.96621		

(Sumber : Hasil Analisis, 2023)

Lampiran 8 Tabel Hasil Debit Air Metode F.J. Mock Subdas Sungai Asin Tahun 2021

No	URAIAN	Satuan	Hitungan	2021													
				Jan	Feb	Mar	Apr	Mei	Jun	Jul	Agust	Sep	Okt	Nov	Des		
I Data Meteorologi																	
a	Jumlah Hari dalam 1 Bulan	hari	data	31	28	31	30	31	30	31	31	30	31	30	31	30	31
b	Curah Hujan (P)	mm/bulan	data	302	509.6667	195	262.3333	71.33333	191	12.33333	14.33333	44.33333	82.33333	534.3333	341		
c	Hari Hujan (h)	hari	data	14.44762	19.32381	16.11429	11.61905	9.809524	1.571429	0.752381	1.6	0.809524	7.495238	11.81905	17.91429		
d	Temperatur	°C	data	29.25806	28.17241	29.20968	29.68333	29.52258	29.48333	28.66129	30.17742	31.63333	31.09677	29.1	28.87097		
e	Kecerahan Matahari	%	data	57.60488	41.22634	54.1103	49.03053	31.24663	43.53294	32.12808	32.46753	40.27778	32.4411	63.54569	56.42698		
f	Kelembaban Relatif (RH)	%	data	98.22581	97.89286	98.25806	96.86667	95.46667	96.31034	94.74194	94.09677	91.06667	88.12903	88.12903	96.66667		
g	Kecepatan Angin	m/det	data	0.005152	0.044229	0.027666	0.130478	0.131459	0.145718	0.175291	0.169878	0.379668	0.259297	0.112754	0.102337		
III Evapotranspirasi Terbatas (Et)																	
a	Evapotranspirasi (Eto)	mm/bulan	Eto	0	8881.402	447334.7	226418.2	424.2137	4704.5	6956.923	6318.055	10224.76	4768.084	8988.004	1708.599		
b	Permukaan Lahan yang Terbuka (m)	%	ditetapkan	123	0	0	43	0	201	252	233	440	116	322	167		
c	(m/20) x (18-h)	-	hitungan	190	40	14	63	66	102	159	212	407	185	354	60.5		
d	E = Eto x [(m/20) x (18-h)]	mm/bulan	(v) x (w)	269	31	32	0	0	163	249.5	364.5	456.5	203	425	64		
e	Et = Eto - E	mm/bulan	(v) - (y)	142	0	28	78	0	292	266	332	413	152	227	227		
IV Keseimbangan Air																	
a	Δs = P - Et	mm/bulan	(b) - (z)	160	509.6667	167	184.3333	71.33333	-101	-253.667	-317.667	-368.667	-69.6667	307.3333	114		
b	Aliran Permukaan (PF=5%)	mm/bulan	PF x (b)	0	0	0	0	0	9.55	0.616667	0.716667	2.216667	4.116667	0	0		
c	Kandungan Air Tanah (SS)	mm/bulan	(z) - (aa)	0	0	0	0	0	-110.55	-254.283	-318.383	-370.883	-73.7833	0	0		
d	Kapasitas Kelembaban Tanah (SMC)	mm/bulan	SMC+ (ac)	99.9917	99.9917	99.9917	99.9917	99.9917	-110.55	-254.283	-318.383	-370.883	-73.7833	99.9917	99.9917		
e	Kelebihan Air (WS)	mm/bulan	(aa) - (ac)	160	509.6667	167	184.3333	71.33333	9.55	0.616667	0.716667	2.216667	4.116667	307.3333	114		
V Aliran dan Penyimpanan Air Tanah																	
a	Infiltrasi (I)	mm/bulan	(ae) x i	120.4269	383.6098	125.6956	138.7418	53.69032	7.18798	0.464145	0.539412	1.668414	3.098483	231.32	85.80415		
b	Volume Air Tanah (G)	mm/bulan	0,5 [1+k] x (af)	110.5499	352.1476	115.3865	127.3627	49.28684	6.598448	0.426078	0.495172	1.531577	2.844357	212.348	78.76682		
c	k x V _(m3)	mm/bulan	hitungan	122.185	194.5588	457.0288	478.5206	506.4988	464.6187	393.9222	329.6624	276.001	232.0082	196.3291	341.6408		
d	Tampungan (Vn)	mm/bulan	(ag) + (ah)	232.7349	546.7064	572.4153	605.8833	555.7856	471.2172	394.3483	330.1576	277.5326	234.8526	408.6771	420.4076		
e	Perubahan Volume Tampungan (ΔVn)	mm/bulan	Vn - V(n-1)	110.5499	313.9715	25.70887	33.46802	-50.0977	-84.5684	-76.8688	-64.1908	-52.625	-42.68	173.8245	11.7305		
f	Aliran Dasar (BF)	mm/bulan	(af) - (aj)	9.87696	69.63832	99.98669	105.2738	103.788	91.75642	77.33299	64.73017	54.2934	45.77848	57.49544	74.07365		
g	Limpasan Langsung (DR)	mm/bulan	(ab) + (ae) - (af)	39.57312	126.0569	41.30444	15.64302	17.64302	11.91202	0.769188	0.89921	2.764919	5.13485	76.01336	28.19585		
h	Total Limpasan	mm/bulan	(ak) + (al)	49.45008	195.6952	141.2911	150.8653	121.431	103.6684	78.10218	65.62409	57.05832	50.91333	133.5088	102.2695		
VI Debit Aliran Sungai																	
a	Aliran / Debit sungai	m ³ /dt	A x (am)	3.415571	14.96512	9.759132	10.76778	8.387374	7.399175	5.394602	4.532728	4.072449	3.516639	9.528985	7.063865		
b	Volume Aliran	m ³ 10 ⁶ %	Volume per bulan	9.148264	36.20361	26.13886	27.91008	22.46474	19.17866	14.4489	12.14046	10.55579	9.418966	24.69913	18.91986		

(Sumber : Hasil Analisis, 2023)

Lampiran 9 Tabel Hasil Debit Air Metode F.J. Mock Subdas Sungai Asin Tahun 2022

No	URAIAN	Satuan	Hitungan	2022													
				Jan	Feb	Mar	Apr	Mei	Jun	Jul	Agust	Sep	Oktr	Nov	Des		
I Data Meteorologi																	
a	Jumlah Hari dalam 1 Bulan	hari	data	31	28	31	30	31	30	31	31	30	31	30	31		
b	Curah Hujan (P)	mm/bulan	data	345	189.3333	457.6667	221.3333	209.3333	179	30.66667	36	69.33333	456	455.6667	207.3333		
c	Hari hujan (h)	hari	data	19.2	18.79048	17.7619	10.07619	5.904762	10.54286	1.219048	1.52391	4.733333	4.580952	18.26667	16.39048		
d	Temperatur	°C	data	29.25806	28.17241	29.20968	29.68333	29.52258	29.48333	28.66129	30.17742	31.63333	31.09677	29.1	31.30667		
e	Kecerahan Matahari	%	data	75.64103	33.00666	22.42456	49.03053	31.24663	43.53234	32.12808	32.46753	57.84946	32.4412	63.54569	56.42698		
f	Kelembaban Relatif (RH)	%	data	98.16129	98.10714	98.83871	96.86667	95.46667	96.31034	94.74194	94.09677	96.5	88.12903	88.12903	96.66667		
g	Kecepatan Angin	m/det	data	0.005152	0.044229	0.027666	0.130478	0.131459	0.145718	0.175291	0.169878	0.379668	0.259297	0.264337	0.102337		
III Evapotranspirasi Terbatas (Et)																	
a	Evapotranspirasi (Eto)	mm/bulan	Eto	2638.597	3112.456	-6.67125	33.15639	975.3962	2614.601	1738.508	8219.955	158.2146	138.0819	173.0434	172.6535		
b	Permukaan Lahan yang Terbuka (m)	%	ditetapkan	97	129	0	0	95	167	83	266	30	30	30	30		
c	(m/20) x (18-h)	-	hitungan	103	150	6	31	89	184	74	332	0.139	0.201286	-0.004	0.024143		
d	E = Eto x [(m/20) x (18-h)]	mm/bulan	(v) x (w)	168	56	0	9	75	55.5	168.5	294	31.48471	27.79391	-0.69217	4.168349		
e	Et = Eto - E	mm/bulan	(v) - (y)	21	181	13	69	70	82	371	394	126.7299	110.288	173.7356	168.4852		
IV Keseimbangan Air																	
a	$\Delta s = P - Et$	mm/bulan	(b) - (z)	324	8.333333	444.6667	152.3333	139.3333	97	-340.333	-358	-57.9966	345.712	281.9311	38.84816		
b	Aliran Permukaan (PF= 5%)	mm/bulan	PF x (b)	0	0	0	0	0	0	1.533333	1.8	3.466667	0	0	0		
c	Kandungan Air Tanah (SS)	mm/bulan	(z) - (aa)	0	0	0	0	0	0	-341.867	-359.8	-60.8633	99.9917	99.9917	0		
d	Kapasitas Kelembaban Tanah (SMC)	mm/bulan	SMC + (ac)	99.9917	99.9917	99.9917	99.9917	99.9917	99.9917	-341.867	-359.8	-60.8633	99.9917	99.9917	99.9917		
e	Kelebihan Air (WS)	mm/bulan	(aa) - (ac)	324	8.333333	444.6667	152.3333	139.3333	97	1.533333	1.8	3.466667	345.712	281.9311	38.84816		
V Aliran dan Penyimpanan Air Tanah																	
a	Infiltrasi (I)	mm/bulan	(ae) x i	243.8644	6.272233	334.6864	114.6564	104.8717	73.0088	1.154091	1.354802	2.609249	260.2064	212.2005	29.23977		
b	Volume Air Tanah (G)	mm/bulan	0,5 [1+k] x (af)	223.8636	5.757808	307.2367	105.2527	96.27056	67.02089	1.059437	1.243687	2.395248	238.8652	194.7966	26.84163		
c	$k \times V_{(n)}$	mm/bulan	hitungan	351.4471	480.941	406.8644	596.9653	587.0315	571.2183	533.5472	446.9138	374.6451	315.1935	463.1751	550.043		
d	Tampungan (Vn)	mm/bulan	(ag) + (ah)	575.3107	486.6389	714.1011	702.2181	683.302	638.2392	534.6067	448.1575	377.0404	554.0587	657.9717	576.8846		
e	Perubahan Volume Tampungan (ΔVn)	mm/bulan	Vn - V(n-1)	154.9081	-88.6118	227.4022	-11.883	-18.916	-45.0628	-103.633	-86.4492	-71.1171	177.0184	103.913	-81.0871		
f	Aliran Dasar (BF)	mm/bulan	(af) - (aj)	88.36135	94.88406	107.2841	126.5395	123.7878	118.0716	104.7866	87.80398	73.72639	83.18802	108.2875	110.3269		
g	Limpasan Langsung (DR)	mm/bulan	(ab) + (ae) - (af)	80.13556	2.0611	109.9803	37.67691	34.46159	23.9912	1.912576	2.245198	4.324084	85.50564	69.73058	9.608393		
h	Total Limpasan	mm/bulan	(ak) + (al)	169.0969	96.94516	217.2644	164.2164	158.2493	142.0628	106.6992	90.04917	78.05047	168.6937	178.0181	119.9353		
VI Debit Aliran Sungai																	
a	Aliran/Debit sungai	m ³ /dt	A x (am)	11.67971	7.413548	15.00669	11.72069	10.93045	10.13952	7.369829	6.219794	5.570732	11.65185	12.70577	8.284059		
b	Volume Aliran	m ³ 10 ⁶	Volume per bulan	31.28293	17.93486	40.19392	30.38003	29.27613	26.28163	19.73935	16.6591	14.43934	31.20833	32.93335	22.18902		

(Sumber : Hasil Analisis, 2023)

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