

PUKAKI FLATS SOUTH STAGING PLAN					DISCHARGE / ha		TOTAL DISCHARGE		TOTAL DISCHARGE (with dryland)	
Land Use	Abbr.	Area ID	Soil	Area ha	N (HD) kg /ha/yr	P kg /ha/yr	N (HD) kg N /yr	P kg P /yr	N (HD) kg N /yr	P kg P /yr
DRYLAND LOSSES:										
Simons Hill (Pukaki Flats South)										
Dryland Not Farmed:				1600	2	0.02	3200	32		
Dryland Farmed:				0	3.2	0.2	0	0		
Total Dryland Losses:				1600			3200	32		
OVERALL LOSSES (incl. Irrigated Land & Dryland):										
Stage 1: Year 1: Development of SPSL Pukaki Flats North only										
Stage 2: Year 2: Development of SPSL Pukaki Flats North only										
Stage 3: Third Year:						Construct and irrigate 393 ha new pivots; NO SBIFIN; NO DOFF				
	DOFF		PAW90/130		20	0.6	0	0		
			PAW 30/60		18	0.5	0	0		
	SBIFIN		PAW90/130		14	0.2	0	0		
			PAW 30/60		13	0.2	0	0		
	Irrigated Pasture		PAW90/130		9	0.6	0	0		
	(No stock)		PAW 30/60	393	11	0.5	4323	197		
Total Irrigated:				393			4323	197	4323	197
Total Dryland:				1600					3200	32
Total Overall Farm:				1993			8646	393	7523	229
SHSL Pukaki Flats South Nutrient Allocation:									50182	3932
Surplus on Pukaki Flats South (after subcatchment reallocation):									42659	3704

Stage 4: Fourth Year	Construct and irrigate 536 ha new pivots; 393 ha SBIFIN; NO DOFF								
	DOFF		PAW90/130		20	0.6	0	0	
			PAW 30/60		18	0.5	0	0	
	SBIFIN		PAW90/130		14	0.2	0	0	
			PAW 30/60	393	13	0.2	5109	79	
	Irrigated Pasture		PAW90/130		9	0.6	0	0	
	(No stock)		PAW 30/60	536	11	0.5	5896	268	
Total Irrigated:				929			11005	347	11005 347
Total Dryland:				1600					3200 32
Total Overall Farm:				2529			22010	693	14205 379
SHSL Pukaki Flats South Nutrient Allocation:								50182	3932
Surplus on Pukaki Flats South (after subcatchment reallocation):								35977	3553
Stage 5: Fifth Year	Construct and irrigate 536 ha new pivots; 536 ha SBIFIN; 393 ha DOFF								
	DOFF		PAW90/130		20	0.6	0	0	
			PAW 30/60	393	18	0.5	7074	197	
	SBIFIN		PAW90/130		14	0.2	0	0	
			PAW 30/60	536	13	0.2	6968	107	
	Irrigated Pasture		PAW90/130		9	0.6	0	0	
	(No stock)		PAW 30/60	536	11	0.5	5896	268	
Total Irrigated:				1465			19938	572	19938 572
Total Dryland:				1600					3200 32
Total Overall Farm:				3065			39876	1143	23138 604
SHSL Pukaki Flats South Nutrient Allocation:								50182	3932
Surplus on Pukaki Flats South (after subcatchment reallocation):								27044	3328
Stage 6: Sixth Year	Construct and irrigate 270 ha new pivots; 536 ha SBIFIN; 929 ha DOFF								
	DOFF		PAW90/130		20	0.6	0	0	
			PAW 30/60	929	18	0.5	16722	465	
	SBIFIN		PAW90/130		14	0.2	0	0	
			PAW 30/60	536	13	0.2	6968	107	

	Irrigated Pasture	PAW90/130		9	0.6	0	0		
	(No stock)	PAW 30/60	270	11	0.5	2970	135		
Total Irrigated:			1735			26660	707	26660	707
Total Dryland:			1600					3200	32
Total Overall Farm:			3335			53320	1413	29860	739
SHSL Pukaki Flats South Nutrient Allocation:								50182	3932
Surplus on Pukaki Flats South (after subcatchment reallocation):								20322	3193
Stage 7: Seventh Year	Construct and irrigate NO new pivots; 270 ha SBIFIN; 1465 ha DOFF								
	DOFF	PAW90/130		20	0.6	0	0		
		PAW 30/60	1465	18	0.5	26370	733		
	SBIFIN	PAW90/130		14	0.2	0	0		
		PAW 30/60	270	13	0.2	3510	54		
	Irrigated Pasture	PAW90/130		9	0.6	0	0		
	(No stock)	PAW 30/60		11	0.5	0	0		
Total Irrigated:			1735			29880	787	29880	787
Total Dryland:			1600					3200	32
Total Overall Farm:			3335			59760	1573	33080	819
SHSL Pukaki Flats South Nutrient Allocation:								50182	3932
Surplus on Pukaki Flats South (after subcatchment reallocation):								17102	3114
Stage 8: Eighth Year	Construct and irrigate NO new pivots; NO SBIFIN; 1735 ha DOFF								
	DOFF	PAW90/130		20	0.6	0	0		
		PAW 30/60	1735	18	0.5	31230	868		
	SBIFIN	PAW90/130		14	0.2	0	0		
		PAW 30/60		13	0.2	0	0		
	Irrigated Pasture	PAW90/130		9	0.6	0	0		
	(No stock)	PAW 30/60		11	0.5	0	0		
Total Irrigated:			1735			31230	868	31230	868
Total Dryland:			1600					3200	32
Total Overall Farm:			3335			62460	1735	34430	900

SHSL Pukaki Flats South Nutrient Allocation:						50182	3932
Surplus on Pukaki Flats South (after subcatchment reallocation):						15752	3033

OPTION 4

	Total Dryland	New Irrigated Pasture	SBIFIN	DOFF	TOTAL	Pukaki Flats NDA	SURPLUS
Stage 1	#REF!	#REF!	0	0	#REF!	#REF!	#REF!
Stage 2	#REF!	#REF!	#REF!	0	#REF!	#REF!	#REF!
Stage 3	3200	4323	0	0	7523	50182	42659
Stage 4	3200	5896	5109	0	14205	50182	35977
Stage 5	3200	5896	6968	7074	23138	50182	27044
Stage 6	3200	2970	6968	16722	29860	50182	20322
Stage 7	29880	0	0	0	3200	33080	50182
Stage 8	0	0	31230	0	31230	3200	34430