Skjagit Riv	er Feasibility Report															
Alternative	Analysis															
Mitigation (costs are not complete for	Alternative	3 and 4													
magaaon			I				Plan, Engr &		County	Riparian	Saltwater					
Alternative	Description	HTW rank	Arch rank	Construction	Mitigation	Real Estate	Design+Constr	Total	Share		Marsh Acres	Farmlands				
raternative	Becomption	1=best	1=best	Cost(million)	Cost(million)	Cost(million)	use 10%	Cost(million)			total/planted		Remarks			
1	Swinomish Diversion	3	3								850/200		Elimenated 7 May because alter 1 is too similar to			
·	OWINGINISH DIVERSION			171	2-7	72	17	227	70	300	030/200	2400	alter 7. Alter 7 is favored of the two by Sponsor.			
2	Small Swinomish	1	5	133	30	48	16	227	79	620	850/200	1870	, ,			
	Diversion with Setbacks		-	100	30	40	10	221	13	020	030/200	1070				
	Setback Levees with	not ranked	2	52	9	49	10	120	42			800				
	Selected Overtopping 1/	HOL TALIKEU		52	9	49	10% too low	120	42			800				
		not ranked	3	49	a	52		120	42			000	Alter 4 does not protect critical transportation			
		not ranked	3	49	9	52	10% too low	120	42			900				
	with Overtopping	5	4	146	20	86		290	400	570		050	routes during emergencies.			
5	Setback Levees	5	4	146	39	80	19	290	108	5/0		850	Alter 5 requires extensive restoration of a closed			
-													dump site DS of the Division Street Bridge. 6/			
													Restoration would be 100% Sponsor Share.			
													Routine action would be avoidance of site.			
6	Samish Diversion	1	1	158	9	39	17	223	78	300	420/100	3190	Alter 6 may have a jeopardy call because of the			
													mixing of two fish, from Samish and Skagit. 7/			
	Upper Swinomish	2	3	135	24	46	16	221	77	300	640/200	2030				
	Diversion <u>5/</u>															
8	Do nothing	not ranked	not ranked	no cost	no cost	no cost										
					IINATED FRO	M DETAILED	EVALUATION, S	SEE FOOT NO	TES							
9	Dredging 2/	not ranked	not ranked	no cost	no cost	no cost										
10	Increased Storage	not ranked	not ranked	no cost	no cost	no cost										
	Existing Projects 3/															
11	Increased Storage	not ranked	not ranked	no cost	no cost	no cost							Alter 1 was elimenated 7 May because alter 1 is			
	New Project 4/												too similar to alter 7. Alter 7 is favored of the two			
													by the Sponsor.			
													.,			
	1/ Interstate 5 and Highwa	ay 99 are pr	otected from	n 100 year floo	oding event.								Zoning is required when flood plain is protected			
	1/ Interstate 5 and Highway 99 are protected from 100 year flooding event. 2/ Intial costs and maintance costs are very high.												from the 100 year flood, thus the potential for			
	3/ Amount of storage at U	pper Baker	and Ross F	Reserviors has	already been	optimized.							induced development is stopped.			
	4/ There is no site avaliab						d wild and scenic	area.								
	5/ Additional benefit of a D															
	6/ Based on the estimated							million Land	fill characteria	ration is e	stimated at \$20	00 000	There is verble comunication from the County that			
	Avoidance is recommended		Lana iii, U	canup or stabl	Zation could i	ange between	, φοσο,σοσ το φ π	o minori. Land	Granaciariz		omnated at \$20	,500.	the overtopping with ring dikes is probably			
	7/ Alter 6 may have a jeog		1	politically unbuildable.												
	<u>i ir</u> Aiter o may nave a jeor	oardy call be	ecause of a	ISCUSSIONS WILL	I INIVIFS OII	May.										

	Feasibility Report	4	L	1	1	1	-															\leftarrow
ernative A	Analysis	1 is the Best	, Ranking 1	1 to 8.		ļ																⊢
5					ļ	-									F. (1)			-m · ·				⊢
ernative D	escription	Acceptability													ffectiveness			ost effectiveness)			Ļ	
		Public	Implemen								Satisfaction				Alleviates		Risk and	Alleviates	Realizing		Unweighte	d
		Acceptance	Technical	Environmental	I Economic	Financial	Political	Legal	Institutional			Resource Agency			Problems	Opportunities	Uncertainty	Problems	Opportunities		Ranking	╙
											support	Support	Support									ഥ
		PR	PKRNB	S	J	PJB	P			Р	Р		S	P		JK	PSR	JK	J			ـــــــــــــــــــــــــــــــــــــــ
1 S	Swinomish Diversion	21	22137	5	1	447	2			2	2		1	2	11	11	271	11	1	65		L
																						L
		42	32227	5	1	667	4			4	4		1	4	11	11	572	11	1	85	Second	L
	iversion with Setbacks																					L
		65	64647	1	4	117	6			6	6		6	6	53	54	645	44	4	126		L
	Selected Overtopping 1/																					L
		75	77746	8	7	226	7			7	7		6	7	77	76	746	77	7	185		L
	ith Overtopping																					L
5 S	Setback Levees 6/	54	52437	2	3	778	5			5	5		2	5	11	12	414	34	3	103	Fourth	L
																						L
6 S	Samish Diversion 7/	33	43328	7	1	558	3			3	3		8	3	11	11	533	11	1	90	Third	Ĺ
		11	11136	5	1	336	1			1	1		1	1	11	11	171	11	1	52	First	Ĺ
	Diversion <u>5/</u>																					L
8 D		88	81851	3	7	041	8			8	8		4	8	77	78	827	77	4	154		
		ALTERNATI		W ARE ELIMIN	NATED FRO	OM DETAIL	LED EVA	LUATIO	N, SEE FOO	TON T	ES											L
		R	KRNB												K	K						
9 D	redging 2/	9	4911												2	5						Г
																						Г
10 In	ncreased Storage	6	741												7	7						Г
	xisting Projects 3/																					Г
11 In	ncreased Storage	7	851												8	8						Г
N	lew Project 4/											Entry ledgend			ENVIRON	MENTAL ISSU	JES					Г
												Stephen Pierce	Р	4-May	Overtoppin	ng wont induce	flood pain d	evelopment.				Г
												Jim Smith	J			will create addi						Г
1/	/ Interstate 5 and Highway 99 are protected from 100 year flooding e				ding event.							Monte Kaiser	K	31-May	No Action	wont induce flo	ood plain dev	elopment.				Г
	/ Intial costs and maintai											Mike Scuderi	S	31-May	Diversion	has too many	questions.	T .				Г
3/	/ Amount of storage at U	Jpper Baker a	nd Ross R	eserviors has a	already been	n optimize	d.					Ron Malmgren	R	31-May			İ					Г
4/	/ There is no site avaliab	ole for a new	storage da	m. The upstrear	m rivers are	in a desid	nated wil	d and s	cenic area.			Norm Skjelbreia	N	31-May								Г
5/										Brad Ninnis	В	4-Jun								Г		
6/	/ Based on the estimated	d size of the	Land fill, cle	eanup or stabili:	zation could	d range be	tween \$50	00.000	o \$10 millior	. Land	fill charactari	zation is estimated	at \$200.0	00. Avoidance is	recomme	nded.	1	İ				Г
7	/ Alter 6 may have a leo	nardy call be	cause of di	ecuceione with	NIMES on	Mov loo	uo io Sko	ait fich	stocke being	maissa d s	uith Camiah	iah ataaka	1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1	I			†	\vdash