		Ducks Unlimited, Inc.				
		1101 SE Tech Center Drive, Suite 115 Vancouver, WA 98683 Phone: 360-885-2011 Fax: 360-885-2088				
To: Fax: Phone Re:	Metro Elaine Stewart 503 797-1849 Engineer Est. Smith-Bybee	FROM:  Gus Williams    DATE:  June 6, 2003    PAGES:  2    CC:				
		comment 🔲 Please Reply 🗌 Please Recycle				
Comme	nts:					
1 ]	Please see attached engineers estimat	te.				
<b>2</b>	In regards to the cut and fill I have t The total excavation for the project	he following information. is 2000 yards (1068yds in COE permit). ?				

-610yds will be used to backfill the new structure (191yds in COE permit). ? -280yds will be used as upland fill to improve the road (upland fill noted in COE permit). OK

-1110 will be exported. OK

-Important to note that there is no increase in the amount of wetland fill associated with the new structure. OK

-Total project will impact .06 AC of waters of the US (.06 in COE permit). OK

I think we are OK. The reason the quantities are different is because the structure is being installed 4 feet lower than preliminary plans. The Footprint is actually the same.

3

00.004	Smith/Bybee Waler Control Structure		Construction	Construction Cost Estimate			
DR-32-1	Smith Bybee Walls Control Official			Fir	at Draft:		4/1/2003
				Revision Date:			6/6/2003
	DESCRIPTION	Units	Quanitity		Jnit Price		tem Cost
lem No.		LS		يو الم	CALIFORNIA PORTATION PORT	به مناطقة الم	and the line provide Line
alaar dumilanin	Mobilization (10% of Total Construction Cost)	LS	1	S	30,798.50	\$	30,798.50
			au an da surba, su aldres, 673		e national de la challacture de la companya	1. 'n .g., ciki	1
<b>MARCENE</b>	CALIFORNIA DE LA CALENCIA DE LA CALIFORNIA D	<u> </u>		أسعسها			
1;11 (:) (0 (1/, 1/1) 	SILE WORK				1,500.00	\$	1,500.00
	Erosion Control	LS	1	S.			12,000.00
	Dewatering - new water control structure	LS	1	5	12,000.00	S	1,500.00
	Clear & Grub	AC	0.75	5	2.000.00	<u>s</u>	10.000.00
	Excavation	YD	2000	S	5.00	S	3,325.00
	Embankment Fill	YD	475	5	7.00	5	
	Spoil Export	YD	1110	S	3.00	5	3,330.00
	Demolition of existing outlet control structure	LS	1	S	3,500.00	S	
	3" Minus Crushed Foundation Rock	Ton	180	\$	45.00	\$	8,100.00
••	Seperation Fabric	SQ YD	970	5	1.50	S	
	Road Base Spalls 8" minus	Ton	270	\$	40.00	5	10,800.00
,	3/4" Crushed Rock Surfacing	Ton	120	5	35.00	\$	4,200.00
	1 1/2" Crushed Rock Base	Ton	45	\$	35.00	\$	1.575.00
	Rip Rap Spalls 8" minus	Ton	323	5	40.00	S	12,920.00
	Fabric Encapsulated Slope (18" high)	LIN-FT	530	\$	16.00	S	8,480.00
<u> </u>	Hydroseeding	SF	4000	\$	0.15	\$	600.00 69,785.00
	BOX CULVERTS		1	hee L	UBTOTAL	S 	60.000.00
······	8 X 10 Box Material	LIN-FT	120	S		5	12,000.00
	Box culvert placement	LIN-FT	120	15	100.00	s	72,000.00
		attraction and the state of the	areas a subura a sub	1.765	UBTOTAL	[ <b>⊅</b> 673#-1836	
	CAST IN PLACE CONCRETE	Y NIERA (	<u>17 15 16 17 16 1</u>				-
		LS	1	15	91,700.00	5	91,700.00
<u>un e</u>	FABRICATED STEEL			1			and a second
	42" Tide Gates	EA	2	5	5,500.00	\$	11,000.00
	30" Combination Tide Gate	EA	1	ן ד <u>ו</u>	4,000.00	\$	4,000.00
	Grating, Rails, Guides & Anchors	LS		S	56,000.00	5	56,000.00
·				1	SUBTOTAL	\$	71,000.00
	wood		er en	ÇE!			
	Wood Stop Logs	LS	1	\$	3,500.00	S	3,500.00
·							
				1	Const Cost	TS	338,783.50
	,			C	ontingencles	15	13,755.0
					Total Cost	Î S	352,538.50
				1			0.02,000.0