## King County

## Department of Permitting

Environmental Review 35030 SE Douglas Str, Suite 210 Snoqualmie, WA 98065-9266 206-296-6600 TTY Relay: 711

## Critical Areas Mitigation Bond Quantity Worksheet

C24 09/09/2015 Is-wks-sensareaBQ.xls Is-wks-sensareaBQ.pdf

Project Name:

Date: 12/20/2022

**Prepared by:** Kristin DeRose - Ragen & Assoc.

Project Number: Project Description:

Project Number:	Project Description:											
Location:		60-820-4242										
PLANT MATERIALS (includes labor cost for plant installation)												
Туре	Unit Price	Unit	Quantity	Description	Cost							
PLANTS: Potted, 4" diameter, medium	\$5.00	Each	136	PNW natives	\$ 680 -							
PLANTS: Container, 1 gallon, medium soil	\$11.50	Each	72	mixed perennials	\$ 828 -							
PLANTS: Container, 2 gallon, medium soil	\$20.00	Each			\$ -							
PLANTS: Container, 5 gallon, medium soil PLANTS: Seeding, by hand	\$36.00 \$0.50	Each SY	36	trees and shrubs	\$ 1,296 - \$ -							
PLANTS: Seeding, by hand PLANTS: Slips (willow, red-osier)	\$2.00	Each			\$ -							
PLANTS: Stakes (willow)	\$2.00	Each	14	for trees	\$ 28 -							
PLANTS: Stakes (willow)	\$2.00	Each		101 11003	\$ -							
PLANTS: Flats/plugs	\$2.00	Each			\$ -							
				TOTAL	\$ 2,832 -							
INSTALLATION COSTS ( LABOR, EQU		OVERHEAD)										
Туре	Unit Price	Unit			Cost							
Compost, vegetable, delivered and spread	\$37.88	CY	4		\$ 151.52 <sup>-</sup>							
Decompacting till/hardpan, medium, to 6" depth	\$1.57	CY	00		\$ -							
Decompacting till/hardpan, medium, to 12" depth Hydroseeding	\$1.57 \$0.51	CY SY	22		\$ 34.54 - \$ -							
, ,	ψο.ο ι	0.		+	Ψ							
Labor, general (landscaping other than plant installation)	\$40.00	HR	520		\$ 20,8000 -							
Labor, general (construction)	\$40.00	HR	750		\$ 30,000 -							
Labor: Consultant, supervising	\$55.00	HR	36		\$ 1,980 -							
Labor: Consultant, on-site re-design	\$95.00	HR	45		\$ 4,275 -							
Rental of decompacting machinery & operator	\$70.00	HR	40		\$ 2,800 -							
Sand, coarse builder's, delivered and spread	\$42.00	CY	4.		\$ -							
Staking material (set per tree)	\$7.00	Each	14		\$ 98 - \$ -							
Surveying, line & grade Surveying, topographical	\$250.00 \$250.00	HR HR			\$ - \$ -							
Watering, 1" of water, 50' soaker hose	\$250.00	MSF			\$ -							
Irrigation - temporary	\$3,000.00	Acre			\$ -							
Irrigation - buried	\$4,500.00	Acre	1		\$ 4,500 -							
Tilling topsoil, disk harrow, 20hp tractor, 4"-6" deep	\$1.02	SY			\$ -							
	•			TOTAL	\$ 64,639.06 <b>-</b>							
HABITAT STRUCTURES*												
ITEMS	Unit Cost	Unit			Cost							
Fascines (willow)	\$ 2.00	Each			\$ -							
Logs, (cedar), w/ root wads, 16"-24" diam., 30' long	\$1,000.00	Each			\$ -							
Logs (cedar) w/o root wads, 16"-24" diam., 30'	\$400.00	Each			\$ -							
Logs, w/o root wads, 16"-24" diam., 30' long	\$245.00	Each			\$ -							
Logs w/ root wads, 16"-24" diam., 30' long	\$460.00	Each			\$ -							
Rocks, one-man	\$60.00	Each	13	_	\$ 780 -							
Rocks, two-man	\$120.00	Each	18	_	\$ 2,160 - \$ -							
Root wads Spawning gravel, type A	\$163.00 \$22.00	Each CY	6	+	\$ 132 -							
Weir - log	\$1,500.00	Each			\$ -							
Weir - adjustable	\$2,000.00	Each			\$ -							
Woody debris, large	\$163.00	Each			\$ -							
Snags - anchored	\$400.00	Each			\$ -							
Snags - on site	\$50.00	Each			\$ -							
Snags - imported	\$800.00	Each			\$ -							
* All costs include delivery and installation				TOTAL	\$ 3,072 -							
EROSION CONTROL	<u>,                                      </u>			1	•							
ITEMS	Unit Cost	Unit			Cost							
Backfill and Compaction-embankment	\$ 4.89	CY	8		\$ 39.12 -							
Crushed surfacing, 1 1/4" minus	\$30.00	CY			\$ -							
Ditching	\$7.03	CY	10		\$ -							
Excavation, bulk	\$4.00 \$1.60	CY LF	16 55		\$ 64 - \$ 88 -							
Fence, silt  Jute Mesh	\$1.60 \$1.26	SY	45									
Mulch, by hand, straw, 2" deep	\$1.20	SY	7-3		\$ 56.75 - \$ -							
Mulch, by hand, wood chips, 2" deep	\$3.25	SY			\$ -							
Mulch, by machine, straw, 1" deep	\$0.32	SY			\$ -							
Piping, temporary, CPP, 6"	\$9.30	LF			\$ -							
Piping, temporary, CPP, 8"	\$14.00	LF			\$ -							
Piping, temporary, CPP, 12"	\$18.00	LF			\$ -							
Plastic covering, 6mm thick, sandbagged	\$2.00	SY	_		\$ -							
Rip Rap, machine placed, slopes  Rock Constr. Entrance 100'x15'x1'	\$33.98 \$3,000.00	CY Each	7		\$ 237.86 - \$ -							
Rock Constr. Entrance 100 x 15 x 1  Rock Constr. Entrance 50'x 15'x 1'	\$3,000.00	Each			\$ -							
Sediment pond riser assembly	\$1,500.00	Each			\$ -							
Sediment trap, 5' high berm	\$15.57	LF	12		\$ 192 -							
Sediment trap, 5' high berm w/spillway incl. riprap	\$59.60	LF			\$ -							
Sodding, 1" deep, level ground	\$5.24	SY			\$ -							
Sodding, 1" deep, sloped ground	\$6.48	SY			\$ -							
Straw bales, place and remove	\$600.00	TON			\$ -							
Hauling and disposal	\$20.00	CY	16		\$ -							
Topsoil, delivered and spread	\$35.73	CY	14	TOTAL	\$							
					\$ 6/7.73 -							

ITEMO	Unit Cost	116.50			C==+	
ITEMS		Unit			Cost	
Fencing, chain link, 6' high	\$18.89	LF.			\$	
Fencing, chain link, comer posts	\$111.17	Each			\$	
Fencing, chain link, gate	\$277.63	Each LF			\$	
Fencing, split rail, 3' high (2-rail)	\$10.54 \$1.20	LF			\$	
Fencing, temporary (NGPE)	\$1.20	LF			Ф	
Signs, sensitive area boundary (inc. backing, post, install)	\$28.50	Each	7		\$ 199.5	
				TOTAL	\$ 199.5	)
OTHER	(Construction Cost Subtotal) \$					
	Percentage					
ITEMS	of Construction					
	Construction	Unit			Cost	
Mobilization	10%	1			\$	
Contingency	30%	1			\$	
Contingency	30%	ı				
				TOTAL	\$	
AINTENANCE AND MONITORING	case basis fo	toring and maint or development a anywhere from !	pplications. N	. This will be evaluated on a ca Monitoring and maintance range	es may	
Maintenance, annual (by owner or consultant)						
Less than 1,000 sq.ft. and buffer mitigation only	\$ 1.08	SF		(3 X SF total for 3 annual e Includes monitoring)	vents;	
Less than 1,000 sq.ft. with wetland or aquatic area mitigation	\$ 1.35	SF		(3 X SF total for 3 annual e Includes monitoring)	vents; \$	
Larger than 1,000 sq. ft. but less than 5,000 sq.ft. of buffer mitigation	\$ 180.00	EACH	1	(4hr @\$45/hr)	\$ 180	
Larger than 1,000 sq. ft. but less than 5,000 sq.ft. of wetland or aquatic area mitigation	\$ 270.00	EACH		(6hr @\$45/hr)	\$	
Larger than 5,000 sq.ft. but < 1 acre -buffer mitigation only	\$ 360.00	EACH		(8 hrs @ 45/hr)	\$	
Larger than 5,000 sq.ft. but < 1 acre with wetland or aquatic area mitigation	\$ 450.00	EACH		(10 hrs @ \$45/hr)	\$	
Larger than 1 acre but < 5 acres - buffer and / or wetland or aquatic area mitigation	\$ 1,600.00	DAY		(WEC crew)	\$	
Larger than 5 acres - buffer and / or wetland or aquatic area mitigation	\$ 2,000.00	DAY		(1.25 X WEC crew)	\$	
Monitoring, annual (by owner or consultant)						
Larger than 1,000 sq.ft. but less than 5,000 wetland or buffer mitigation	\$ 720.00	EACH	1	(8 hrs @ 90/hr)	\$ 720	
Larger than 5,000 sq.ft. but < 1 acre with wetland or aquatic area impacts	\$ 900.00	EACH		(10 hrs @ \$90/hr)	\$	
Larger than 1 acre but < 5 acres - buffer and / or wetland or aquatic area impacts	\$ 1,440.00	DAY		(16 hrs @ \$90/hr)	\$	
Larger than5 acres - buffer and / or wetland or aquatic area impacts	\$ 2,160.00	DAY		(24 hrs @ \$90/hr)	\$	
	'			TOTAL	s 900	
					1 4	

**Total** \$ 72,320.29