Department of Perm Environmental Review

Critical Areas Mitigation Bond Quantity Worksheet

Date: 11/26/2018

C24 03/18/2018 Is-wks-sensareaBQ.xls Is-wks-sensareaBQ.pdf

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

Project Name: Parkwood Ltd. Partnership along West Mercer Way

Prepared By: Mark Rigos, Wetland Biologist; (425) 652-6013

Project Number: SFR 1709-196 (City of Mercer Island) Project Description: Provide wetland buffer restoration

PLANT MATERIALS (includes labor cost for lant installation)		4				
уре	Unit Price	Unit Q	uantity	Description	Cost	
LANTS: Potted, 4" diameter, medium	\$5.00	Each	0	<u> </u>	\$	
LANTS: Container, 1 gallon, medium soil	\$11.50	Each	234	Shrubs and groundcover	\$	2,691
LANTS: Container, 2 gallon, medium soil	\$20.00	Each		Trees and shrubs	\$	7,360
LANTS: Container, 5 gallon, medium soil LANTS: Seeding, by hand	\$36.00 \$0.50	Each SY	0		\$	
LANTS: Steeding, by Hand LANTS: Slips (willow, red-osier)	\$2.00	Each	0		\$	
LANTS: Stakes (willow)	\$2.00	Each	0		\$	
LANTS: Stakes (willow)	\$2.00	Each	0		\$	
LANTS: Flats/plugs	\$2.00	Each	0	-	\$	
NOTAL LATION COCTO (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	UDMENT 4 TO			TOTAL	\$	10,05
NSTALLATION COSTS (LABOR, EQU	Unit Price	Unit			Cost	
compost, vegetable, delivered and spread	\$37.88	CY	0		\$	
ecompacting till/hardpan, medium, to 6" depth	\$1.57	CY	336		\$	52
ecompacting till/hardpan, medium, to 12" depth	\$1.57	CY	0		\$	
lydroseeding	\$0.51	SY	2013		\$	1,02
abor, general (landscaping other than plant installation)	***		0		_	
	\$40.00 \$40.00	HR			\$	3,00
abor, general (construction) abor: Consultant, supervising	\$40.00 \$55.00	HR HR	75 8		\$	3,00
abor: Consultant, supervising abor: Consultant, on-site re-design	\$95.00	HR	4		\$	38
lental of decompacting machinery & operator	\$70.00	HR	16		\$	1,12
and, coarse builder's, delivered and spread	\$42.00	CY	0		\$	
taking material (set per tree)	\$7.00	Each	45		\$	31
urveying, line & grade	\$250.00	HR	6		\$	1,50
urveying, topographical	\$250.00	HR	0		\$	
Vatering, 1" of water, 50' soaker hose	\$3.62 \$3,000.00	MSF	0		\$	4.00
rigation - temporary rigation - buried	\$3,000.00 \$4,500.00	Acre Acre	0		\$	1,26
illing topsoil, disk harrow, 20hp tractor, 4"-6" deep	\$4,500.00	SY	0		\$	
O 1 - 2 2 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4	· · · · · · · · · · · · · · · · · · ·			TOTAL	\$	9,56
HABITAT STRUCTURES*						
TEMS	Unit Cost	Unit			Cost	
ascines (willow)	\$ 2.00	Each	0		\$	
ogs, (cedar), w/ root wads, 16"-24" diam., 30' long	\$1,000.00 \$400.00	Each Each	0		\$	
ogs (cedar) w/o root wads, 16"-24" diam., 30' ogs, w/o root wads, 16"-24" diam., 30' long	\$400.00 \$245.00	Each	0		\$	
ogs, w/o root wads, 16"-24" diam., 30 long	\$460.00	Each	0		\$	
cocks, one-man	\$60.00	Each	0		\$	
locks, two-man	\$120.00	Each	0		\$	
oot wads	\$163.00	Each	0		\$	
pawning gravel, type A	\$22.00	CY	0		\$	
Veir - log	\$1,500.00	Each	0		\$	
Veir - adjustable Voody debris, large	\$2,000.00 \$163.00	Each Each	0		\$	
nags - anchored	\$400.00	Each	0		\$	
nags - on site	\$50.00	Each	0		\$	
nags - imported	\$800.00	Each	0	I_	\$	
* All costs include delivery and installation				TOTAL	\$	
TEMS	Unit Cost	Unit			Cost	
ackfill and Compaction-embankment	\$ 4.89	CY	0		\$	
rushed surfacing, 1 1/4" minus	\$30.00	CY	0		\$	
itching	\$7.03	CY	0		\$	
xcavation, bulk	\$4.00	CY	0		\$	-
ence, silt ute Mesh	\$1.60 \$1.26	LF SY	340 0		\$	54
lulch, by hand, straw, 2" deep	\$1.26	SY	0		\$	
fulch, by hand, wood chips, 2" deep	\$3.25	SY	0		\$	
fulch, by machine, straw, 1" deep	\$0.32	SY	0		\$	
iping, temporary, CPP, 6"	\$9.30	LF	0		\$	
riping, temporary, CPP, 8"	\$14.00	LF	0		\$	
riping, temporary, CPP, 12"	\$18.00	LF	0		\$	
lastic covering, 6mm thick, sandbagged	\$2.00 \$33.98	SY CY	0		\$	
Lip Rap, machine placed, slopes lock Constr. Entrance 100'x15'x1'	\$33.98	Each	1		\$	3,00
lock Constr. Entrance 100 x15 x1	\$1,500.00	Each	0		\$	3,00
ediment pond riser assembly	\$1,695.11	Each	0		\$	
ediment trap, 5' high berm	\$15.57	LF	0		\$	
ediment trap, 5' high berm w/spillway incl. riprap	\$59.60	LF	0		\$	
odding, 1" deep, level ground	\$5.24	SY	0		\$	·
odding, 1" deep, sloped ground	\$6.48	SY	0		\$	
traw bales, place and remove	\$600.00 \$20.00	TON	0.5 503		\$	10.06
		1.01	EU3			10,06
lauling and disposal opsoil, delivered and spread	\$35.73	CY	112		\$	4,00

ITEMS	Unit Cost	Unit			Cost	
Fencing, chain link, 6' high	\$18.89	LF	0		\$	
Fencing, chain link, orner posts	\$111.17	Each	0		\$	
Fencing, chain link, gate	\$277.63	Each	0		\$	
Fencing, split rail, 3' high (2-rail)	\$10.54	LF	400		\$	4,216.0
Fencing, temporary (NGPE)	\$1.20	LF	340		\$	408.0
Signs, sensitive area boundary (inc. backing, post, install)	\$28.50	Each	8		\$	228.0
				TOTAL	\$	4,852.0
OTHER	(Construction Cost Subtotal)	\$	42,377.9			
	Percentage					
ITEMS	of Construction	Unit			Cost	
***************************************	Coot	Unit			1	
Mobilization	10%	1			\$	4,237.
Contingency	30%	1			\$	12,713.3
				TOTAL	\$	16,951.
AINTENANCE AND MONITORING	longer moni case basis f	itoring and maint	enance terms. pplications. M	ements may be required to have This will be evaluated on a case lonitoring and maintance ranges	-by-	
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 ever Includes monitoring)	nts; \$	
Less than 1,000 sq.ft. with wetland or aquatic area mitigation	\$ 1.35	SF		(3 X SF total for 3 annual ever Includes monitoring)	nts; \$	
Larger than 1,000 sq. ft. but less than 5,000 sq.ft. of buffer mitigation	\$ 180.00	EACH		(4hr @\$45/hr)	\$	
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	5	(10 hrs @ \$45/hr)	\$	2,250.
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		(8 hrs @ 90/hr)	\$	
Larger than 5,000 sq.ft. but < 1 acre with wetland or aquatic area impacts	\$ 900.00	EACH	5	(10 hrs @ \$90/hr)	\$	4,500.
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	\$	6,750.