

Cost of Restoration - FAIR to GOOD			
3.	What is the estimated cost per acre to move 64% of the total 2,928 acres or 1,871 "fair condition" acres to "good condition"?		
	For ivy and blackberry infestation.		
	Assumes a crew of 7 contractors can cover 20 acres per day on 1st treatment (in year 1).		
	Assumes a crew of 7 contractors can cover 40 acres per day on 2nd treatment (also in year 1).		
	Assumes \$35 per hour per contractor and \$300 per day chemical cost.		
	Assumes year 2, year 3, and year 4 follow-up spot spraying at diminishing cost per acre.		
	Assumes 1 person covers 5 acres per day in year 2.		
	Assumes 1 person covers 10 acres per day in year 3.		
	Assumes 1 person covers 20 acres per day in year 4.		
	Assumes some volunteer assistance pulling weeds in years 2, 3, and 4.		
	For holly, prunus, and other woody stem weeds.		
	Assumes about twice the time needed for moving good to healthy.		
	Team of 2 people can cover 5 acres in 8 days (in year 1).		
	Also assumes about twice the time needed for moving good to healthy in the follow-up years.		
	This includes a thorough inspection, and GPS location and treatment of any weed problems found.		
	Assume a "Botanic Specialist Zero" rate of pay at 3rd year (\$19.00 per hour).		
Cost per acre calculation			
<i>For ivy and blackberry infestation.</i>			
	7	number of people on crew (contracted)	
	8	hours per day	
\$	35.00	hourly rate for each crew member	
	20	number of acres per crew day (first treatment)	
	40	number of acres per crew day (second treatment)	
\$	300	chemical cost per crew per day	
\$	2,260	cost per crew day	
\$	113.00	cost per acre, first treatment	
	56.50	cost per acre, second treatment	
<i>For holly, prunus, and other woody stem weeds.</i>			
	2	number of people (employees)	
	5	number of acres	
	8	number of days	
\$	19.00	cost per hour	
	30%	direct overhead	
	17%	indirect overhead	
\$	715.01	cost per acre (first year)	
	1,871	number of homogeneous acres in fair condition	
\$	1,337,780	total cost (first year)	
	100%	assumed percentage of acres requiring GPS location and treatment of weeds	
	3	Number of years of follow up program for units found with weeds.	
		Number of treatments during the follow up program at full cost.	
2nd year	1	Number of treatments during the follow up program at half cost.	
3rd & 4th years	2	Number of treatments during the follow up program at quarter cost.	
\$	668,890	50%	second year total cost
\$	334,445	25%	third year total cost
\$	334,445	25%	fourth year total cost
\$	2,675,560	Grand Total (all years)	
\$	357.50	Average Annual Cost per Acre	
Assume that after the full program all acres are stabilized at good condition.			

EXHIBIT C

PORTLAND PARKS RECREATION NATURAL AREA RESTORATION COST ESTIMATING (2006)

Maximum Restoration Program															
This Program presumes unlimited financial resources. Therefore it attempts to improve every vegetation unit having homogenous characteristics.															
The treatment program and costs were developed at a City Nature staff workshop in June, 2006.															
Costs reflect 2006 dollars and are not inflated over time.															
			acres	new acres total by class	initial percent of total	acres improved	percent of condition class improved		percent of total acres improved		new percent of total				
		healthy	97	2,044	1.3%	0	0.0%		0.0%		28.2%	healthy			
		good	2,519	2,443	34.7%	1,947	77.3%		26.8%		33.7%	good			
		fair	2,918	1,880	40.2%	1,871	64.1%		25.8%		25.9%	fair			
		poor	1,287	454	17.7%	833	64.7%		11.5%		6.3%	poor			
		stable	0	153	0.0%						2.1%	stable			
		severely degraded	436	283	6.0%	153	35.1%		2.1%		3.9%	severely degraded			
			7,257	7,257	100.0%	4,804	66.2%		66.2%		100.0%				
			before	after											
		severely degraded	436	283											
		stable	0	153											
		poor	1287	454											
		fair	2918	1880											
		good	2519	2443											
		healthy	97	2044											
		condition category	total number of acres	objective	number of acres improved	percent of total prior to program	cost per acre year 1		cost per acre year 2		cost per acre year 3		cost per acre year 4	total cost	average annual cost per acre
		healthy	97	healthy	97	1.3%	\$ 71.50		\$ 37.54		\$ 37.54		\$ 37.54	\$ 17,859.64	\$ 46.03
		good	2,519	healthy	1947	34.7%	\$ 357.50	50%	\$ 178.75	25%	\$ 89.38	25%	\$ 89.38	\$ 1,392,105.00	\$ 178.75
		fair	2,918	good	1871	40.2%	\$ 715.01	50%	\$ 357.51	25%	\$ 178.75	25%	\$ 178.75	\$ 2,675,567.42	\$ 357.51
		poor	1,287	fair	833	17.7%	\$ 956.04	50%	\$ 478.02	25%	\$ 239.01	15%	\$ 143.41	\$ 1,513,124.51	\$ 454.12
		stable	0			0.0%									
		severely degraded	436	stable	153	6.0%	\$ 807.47	50%	\$ 342.31	25%	\$ 96.15	25%	\$ 96.15	\$ 205,339.45	\$ 335.52
			7,257												
														\$ 5,803,996.02	