

Table 1
ESP Site Record

ESP Site Record: Yowkwala						
Observational Categories	8/6/09	10/8/09	12/3/09	2/9/10	4/22/10	6/24/10
Human Impacts	Yes - Continues to be hang out spot with bonfires and party trash	bonfire, minimal trash, yellow boom on shore line	No sign of recent activity. Minor high tide line floatables	No sign of recent activity. Minor high tide line floatables	No recent activity noted; slight amount of trash	Very little trash noted since volunteer event recently occurred
Erosion	none noted	none noted	none noted	none noted	None noted	Minor erosion at hillside
Weeds	Heavy along immediate shoreline area - butterfly bush, pepperweed, blackberry, scott's broom	Previous weeds still noted - nightshade added	Previous weeds still noted - Pampas grass added	Previous invasives still noted. Some removal at the north end of site. Curled dock added	Previous invasives still noted; thistle added	Previous invasives still noted
Fencing	n/a	n/a	n/a	n/a	n/a	n/a
Plantings	Low survival of recent plantings due to weather/heat stress	Loss of some shore pine	no new plantings	Plants at south end of site look good (however, dormant)	Blackberry regrowth was noted in the planted area; plants small but alive	Generally good survival from spring/fall plantings, but some did not survive
Flora	Beach plants having most success		gumweed, dune grass, black raspberry noted at N. end of site	Poison oak limits volunteer opportunities	Plants look good; starting to flower and leaf out	Some patches of pickleweed in marsh area
Fauna	Avian species noted	finch, king fisher, crow, coyote	gulls, crow, heron, seals, dog, small avian species	some Avian species, dog, gulls, fish, sea lions, crow	Little wildlife activity was noted	Crows, bluebird, crane, seagulls, other avian species
Photo-documentation	Taken	Not taken	Not taken	Taken	Not taken	Not taken
* Limited access due to unsigned access agreement.						

Table 1
ESP Site Record

ESP Site Record: Yowkwala						
Observational Categories	8/31/10	10/24/10	12/23/10	2/9/2011 (City)	4/23/2011 (CHB)	6/16/2011 (CHB)
Human Impacts	Approximately five firepit areas were found along the shoreline, very close to the vegetation and driftwood. Significant trash was also identified in these areas.	No new impacts noted	Small amount of trash in the riparian area. Styrofoam pellets and trash present in the tide line.	Two teenage boys were onsite with tools to maintain path. Told them it was a preserved site and requested that they not be onsite, particularly cutting things.	Trash was present in the backshore/marsh area	Two people were onsite in middle backshore area - warned to beware of poison oak. Minor trash was present.
Erosion	A minor amount of erosion was noted in the transition between the beach and upland area at the east end of the site	None noted	Same as before	Minor erosion near the marina end, as before. Slides on the hillside northwest of the path.	None noted	None noted
Weeds	Previous invasives still present Poison oak should also be noted.	Blackberry noted	Blackberry noted	No new invasive species noted	Some blackberry regrowth, curled dock and scott's broom present at the site entrance. Other species present include butterfly bush and thistle.	Invasive species present include pepperweed, white sweet clover, curled dock and blackberry near the site entrance, pepperweed on the adjacent Tyee Marina property, and Scot's broom and blackberry in the backshore area and up the hillside. Pepperweed also present around the trail and middle backshore area.
Fencing	n/a	n/a	New goose exclusion fencing is intact	Looks good	No change noted	A couple of the sections of goose exclusion fencing are leaning.
Plantings	Generally appears good	Appear to be surviving	Some root exposure in the marsh area, but generally look good	95% survival estimated. No pickleweed noted. Dune grass plugs showing green.	Riparian plantings are doing very well. Dune grass has estimated 50% survival, and status of pickleweed was uncertain at the time of the inspection.	Most of the plants installed in fall 2010 are surviving but are being overgrown by tall grass.
Flora	Some jaumea noted in the marsh area along with the pickleweed	Generally healthy	Generally good. Some possible stress in madrone.	Generally good, with no stress, disease, or damage identified	Overall appears healthy. The Oregon grape, snowberry, shore pine, Douglas fir and rose were all doing notably well.	No concerns were noted. Poison oak is spreading into open areas.
Fauna	Seals, small avian species, shells, dog	None noted	Little wildlife activity present during the inspection	Crows, ducks, seagulls, and other small avian species	None noted	Geese, seals and great blue heron
Photo-documentation	Taken	Not taken	Not taken	Taken	Not taken	Not taken

Table 2
ESP Site Record

ESP Site Record: Skookum Wulge					
Observational Categories	8/6/09	10/8/09	12/3/09	2/9/10	4/27/10
Human Impacts	Minor trash	none noted	none noted	none noted	Minimal trash; car bumper in marsh area; old wood dock on beach
Erosion	Point continues to erode due to wave action	same	same	Point has eroded significantly since the last visit	Embankment erosion is continuing
Weeds	Few native plants - presently primarily blackberry and ivy	Knotweed on south end of site injected in September	small amount of Reed Canary Grass	Same - non associated with newly planted area	Blackberry and vetch
Fencing	Repair of perimeter fencing needed when clearing and planting are completed	Repair planned in conjunction with planting	Fence posts sand blasted, repainted and reinstalled with new chain and City locks. Silt fence remains in place	Looked great	Silt fence can be removed; not connected in some sections
Plantings	Planned for October 2009	Planned for November 7	Half of site planted November 7 with mulch - plants look good, survival high	Still looks good	Minimal plant mortality from fall 2009 planting
Flora	Few native plants	same	over 700 plants added to northern half of site. Additional planting planned for the spring	Some dunegrass lost to erosion. Moved plants near eroding edge to safe areas of the site.	Generally healthy; bluebells, quince, red flowering currant, and dune grass volunteering; sword ferns showing some stress
Fauna	Avian species noted	Avian species	Ducks, gull	crow, gull	None noted
Photo-documentation	Taken	Not taken	Not taken	Taken	Not taken
	* Limited access due to unsigned access agreement.				

Table 2
ESP Site Record

ESP Site Record: Skookum Wulge					
Observational Categories	6/25/10	8/31/10	10/19/10	12/15/10	2/9/2011 (City)
Human Impacts	Minimal trash; old wood dock remains on beach	Minimal trash associated with the tide	Minor trash in ivy	Trash in tide line	Minor trash
Erosion	Embankment continues to erode	Embankment continues to erode	Same as before	Same as before	Erosion is continuing, and more plants should be salvaged from the top of bank
Weeds	Same plus curled dock, white sweet clover, and wild pea	Same, with blackberry and pepperweed noted	Scott's broom, blackberry, ivy, wild pea, and a small patch of knotweed noted	None noted	Same as before
Fencing	Silt fence can be removed; continuing to fall down in places	Chain and bollards in good condition. Silt fence still requires removal	No changes noted	No changes noted	No changes noted
Plantings	Some Oregon grape from fall 09 planting not doing well	Recent plantings doing well with approximately 90% survival	Approximately 85% survival	Most appear to be doing well. Movement of mulch on site has covered up some low-growing plants.	Approximately 95% survival estimated
Flora	Generally healthy; volunteer big leaf maple, soft stem rush, and fireweed	Lots of big leaf maple volunteers in the north area	Generally doing well, with some possible white mold/fungus on the young maples	Most doing well, although some Oregon grape may be struggling	Generally good - winter dormancy
Fauna	Immature eagle offshore	Dead sea lion and dead baby seal	None identified	Canada geese and small avian species	Saeagull, duck, and cormorant
Photo-documentation	Not taken	Taken	Not taken	Not taken	Taken

Table 2
ESP Site Record

ESP Site Record: Skookum Wulge			
Observational Categories	4/29/2011 (CHB)	6/16/2011 (CHB)	8/10/2011 (City)
Human Impacts	Minor trash in tide line	None noted	Minor trash in tide line
Erosion	No change noted	No change noted	Erosion appears to be continuing at a decreased rate
Weeds	Ivy is present in the south uplands, and knotweed is coming back. Some blackberry and dock are present as well.	St. John's wort, vetch, blackberry, and knotweed noted.	The knotweed is to be treated in late August, some with injection and some with spray. Blackberry and ivy are resprouting at the south end, and some pepperweed starts were noted in the north marsh area.
Fencing	No change noted	No change noted	One bollard was leaning but remainder in good condition
Plantings	Coastal strawberry and trailing blackberry have broken through the mulch and appear to be doing very well. Others seem healthy as well.	All recent plantings are doing well. The coastal strawberry in particular is showing good coverage.	In preparation for planting, jute mat has been placed on the south end slope where the ivy was removed. A small beach area will also be cut to allow the tide to move into a small depression behind the logs. The north hillside vegetation is not establishing particularly well.
Flora	Overall the vegetation appears healthy, and some maples were volunteering.	Overall the vegetation is doing well. Rushes have become established in the north uplands and are overgrowing other planted species. Fireweed is also established. Volunteer maple and alder are also present.	Some minor amounts of herbaceous species are establishing on the eroded face. Volunteer alder, cottonwood, and big leaf maple were noted. Some drought related stress was noted.
Fauna	Killdeer family in north uplands	None noted	Great blue heron, seagull, crabs, and small avian species
Photo-documentation	Not taken	Not taken	Taken

Table 3
ESP Site Record

ESP Site Record: Squally Beach					
Observational Categories	8/6/09	10/8/09	12/3/09	2/9/10	4/27/10
Human Impacts	Clearing from sign to marsh opening	Dumped oyster shells	Adjacent site cleared of blackberry	none noted	Minimal trash
Erosion	Minor - not significant	minor	minor	Minor at fence line	None noted
Weeds	Minor Blackberry and pepperweed. Knotweed to the north continues to be encroachment concern.	Cord grass identified Knotweed on adjacent site injected in September	Cord grass identified and targeted for removal	Cordgrass removed, knotweed injected and areas will be monitored.	Lots of blackberry and dandelion regrowth on berm knotweed, broadleaf plantain, and some vetch
Fencing	Perimeter fencing is good. Wood debris exclusion fencing needs repair (approx. 30')	Fencing still needs repair	Fencing has been repaired. Post now bent	Fencing down and post out. Needs more repair	Fencing still down and needs repair or removal
Plantings	none noted	Plants previously cut near the sign - coming back with vigor	none noted	no recent plantings	No recent plantings
Flora	All species doing well	same	same	same	Generally healthy, as before
Fauna	Avian species noted	none noted	gulls, crow	gull	Canada geese scat
Photo-documentation	Taken	Not taken	Not taken	Taken	Not taken
	* Limited access due to unsigned access agreement.				

Table 3
ESP Site Record

ESP Site Record: Squally Beach					
Observational Categories	6/11 and 6/25/10	8/31/10	10/20/10	12/15/10	2/9/2011 (City)
Human Impacts	Foot bridge laid across west marsh; a large amount of cardboard fruit boxes with rotting fruit present; other minor trash	Minimal trash	Minor trash	Minor trash	Minor trash
Erosion	None noted	None of significance	None noted	Minor near the berm.	Minor, near the mouth
Weeds	Same species noted, plus St. John's wort, curled dock white sweet clover, and wild pea	Cordgrass noted in many more locations. Also knotweed in middle of riparian area along with the area at the west end of the site, and blackberry.	Blackberry and knotweed noted. Cordgrass being removed by crew from the Dept of Agriculture.	Blackberry, knotweed, reed canary grass and curled dock noted.	Three spartina (cordgrass) starts pulled in the area of previous removal
Fencing	Fencing still needs repair or removal	Fence has been removed and posts remain.	Not applicable	Not applicable	Not applicable
Plantings	No recent plantings	No recent plantings	No recent plantings	Generally good with some animal damage noted	Generally good, with a couple of deschampsia plugs exposed
Flora	Generally healthy with some drought stress and some animal damage	All generally healthy. Approximately 60% of roses show evidence of mossy rose gall wasp.	Generally healthy	Generally healthy. Grasses noted in high marsh area.	No stress, disease or damage noted
Fauna	Crabs, bird feathers, seashells	Small avian species.	None identified	Small avian species, mussels	None identified
Photo-documentation	Not taken	Taken	Not taken	Not taken	Taken

Table 3
ESP Site Record

ESP Site Record: Squally Beach			
Observational Categories	4/29/2011 (CHB)	6/16/2011 (CHB)	8/10/2011 (City)
Human Impacts	Minor trash	Minor trash	None noted
Erosion	None noted	None noted	A small amount was present on the shoreline of the site
Weeds	Knotweed is growing in the planted area at the end of the west woods and has entered the woods. Some blackberry, vetch and wild pea are also present. A possible recurrence of Spartina was also identified.	The knotweed is continuing to spread and requires attention. Blackberry, vetch, wild pea, and white sweet clover were also observed. No cordgrass was seen due to extensive growth of saltgrass and pickleweed.	The knotweed needs to be sprayed/injected. White sweet clover was noted, especially on the islands, and needs to be pulled.
Fencing	Not applicable	Not applicable	Not applicable
Plantings	Plantings at the end of the west woods are doing well. Dune grass is coming in along the edge. Willow stakes are alive and starting to leaf.	New plants in the far corner of the west woods are being overgrown by knotweed. Willow stakes on the west island are doing well while those on the east island have not survived.	Some of the willows/roses on the islands are surviving
Flora	Overall vegetation appears healthy	Overall the vegetation is doing very well, and there are some roses and yarrow coming in on the islands. Lyngby sedge is very healthy.	Minimal drought stress was noted on the established vegetation. All species are doing well. Some rose gall was noted, but less than last year. There was no indication of cordgrass.
Fauna	None noted	None noted	small avian species, geese, bees, butterfly, dragonfly and gnats. Also some small trails were noted near mid-site and may be animal (deer) related.
Photo-documentation	Not taken	Not taken	Taken

Table 4
ESP Site Record

ESP Site Record: Mowitch					
Observational Categories	8/6/09	10/8/09	12/10/09	2/9/10	4/27/10
Human Impacts	None noted	None noted - minor trash	None noted	Minor	Minimal trash
Erosion	None noted	None noted	None noted	None noted	None noted
Weeds	Small areas of blackberry, phragmites, and pepperweed. Bird's foot trefoil	No new noted	No new noted	Tansy ragwort noted	Blackberry regrowth, thistle, reed canary grass, vetch, wild anise, and tansy noted in areas
Fencing	Needs main gate	Main gate replacement if deemed necessary Could remove more goose exclusion	Main gate replacement if deemed necessary	Main gate replacement if deemed necessary	Fence in excellent shape
Plantings	None noted	Snowberry, rose, carex lygnbyei, goose tongue all doing well	Rose doing well. More conifers in the riparian area	Rose, carex lyngbeii, shore pine doing well.	Several rose bushes and unidentified shrub with lichen on branches
Flora	Volunteer pickleweed noted	Jaumea, brass buttons	No new noted	No new noted	Plants look generally healthy; willows, lupine, red flowering currant, Douglas fir, poplar, vine maples, shore pines, horsetails, plantain, sedges, and tufted hair grass noted as doing well
Fauna	Avian species noted	Ducks	Mallard ducks	Ducks, gulls	Canada geese and ducks
Photo-documentation	Taken	Not taken	Not taken	Taken	Not taken
	* Limited access due to unsigned access agreement.				

Table 4
ESP Site Record

ESP Site Record: Mowitch					
Observational Categories	6/25/10	8/25/10	10/29/10	12/15/10	2/9/2011 (City)
Human Impacts	Minor trash	Minor trash	Minor trash	Minor trash	Minor trash
Erosion	None noted	None noted	None noted	Minimal on the far bank	None noted
Weeds	Same, plus wild fennel, curled dock, and white sweet clover	Phragmites in the middle of the site and blackberry	Same as before. Some re-growth of phragmites noted.	Tansy ragwort, reed canary grass, and blackberry noted	Phragmites was recently removed
Fencing	No change	No change - gate still needs repair if necessary	No change noted	No change noted	No change noted
Plantings	Spring 09 plantings on benches do not appear to have survived; others doing well	No recent plantings	Generally good	Generally good with some animal damage noted	Generally good. Approximately 80% of new plants have been damaged by rabbits, with 20% of those taken to the ground. Most will likely survive. Some existing plants damaged as well.
Flora	Plants look good, as before; some predation on plantain noted	Plants look generally healthy with some drought stress. Lots of volunteer pickleweed and increased growth on the island marsh area noted. Also a large patch of fleshy jaumea is present near the middle marsh.	All generally healthy	Generally good with some volunteer grasses noted. Some yellowing of Douglas firs was identified.	Generally healthy with no disease or stress identified
Fauna	Evidence of geese nesting	Butterfly and wasp	Ducks	Seagull and ducks	Geese and killdeer
Photo-documentation	Not taken	Taken	Not taken	Not taken	Taken

Table 4
ESP Site Record

ESP Site Record: Mowitch			
Observational Categories	4/29/2011 (CHB)	6/16/2011 (CHB)	8/10 & 8/11/2011 (City)
Human Impacts	Minor trash	Minor trash	One piece of metal is present in a back channel
Erosion	None noted	None noted	None noted
Weeds	Blackberry, thistle, reed canary grass, tansy ragwort, fennel, dock, and one scott's broom noted. Some phragmites was also observed.	Pepperweed, wild fennel, vetch, thistle, curled dock, and blackberry noted, along with two small patches of phragmites	Phragmites is still present in at least three areas
Fencing	No change noted	No change noted	No change noted
Plantings	Most recent plants appear to be surviving, although some animal damage was observed	5 Douglas fir, 5 shore pine, 1 alder and some ninebark, snowberry and red flowering currant appear to have survived the grazing.	The shorepine are doing notably well
Flora	Overall, vegetation appears healthy. Generally, the shrubs seem to do better at this site than the trees. Lyngby sedge, salt grass, and tufted hairgrass were all doing notably well.	Overall the vegetation is doing well, with lupine, roses and daisies blooming. Willows, spruce, shore pine, Douglas fir, and maples are all doing well. Eight mature alders remain near the front of the site, and one young alder is present mid-site. There continues to be little vegetation present on the benches.	Some green is finally appearing in sizable amounts on the islands. Species present include brass buttons, salt grass and pickleweed. Some drought stress in the riparian area was noted.
Fauna	Rabbit, killdeer, geese, heron, mallards	Song birds	Ducks, swallow and killdeer
Photo-documentation	Not taken	Not taken	Taken

Table 5
ESP Site Record

ESP Site Record: Jordan				
Observational Categories	8/6/09	10/8/09	12/10/09	2/3/10
Human Impacts	Minor trash - recreational trail use	Small sign removed	none noted	none noted
Erosion	none noted	none noted	none noted	none noted
Weeds	Blackberry encroachment on E side of trail. Reed canary grass and purple loosestrife are on-going concerns	same	Blackberry on E side of trail recently cut back by WCC crew	Need to grub Blackberry and place erosion control material
Fencing	Platform structures intact	same	same	same
Plantings	none noted	Needed for spring	Needed for spring in area of blackberry removal on the east side of trail	Planting planned for east side of trail.
Flora	All species are doing well	same	same	lots of buds, Indian plum leafing out
Fauna	Beaver evidence. Avian species noted	avian species, heron, otters (?)	chickadee, wren, ducks, dog	beaver
Photo-documentation	Taken	Not taken	Not taken	Taken

Table 5
ESP Site Record

ESP Site Record: Jordan				
Observational Categories	4/28/10	6/14/10	8/25/10	10/27/10
Human Impacts	Makeshift shelter found at the south end of the site made from small alders cut from the site; cottonwood down in same area, damaging other conifers; also, some damage to middle viewing platform noted	Shelter requires removal; plexiglass on information kiosk has been broken on two of the three sides; more damage to viewing platforms; last handrail stolen; some alders cut at about 3 feet high in various places	Alder cutting had been performed by Restoration Logistics in excess of that desired by Trustees. NOAA will provide direction on approach to re-establish these areas. Minor trash noted.	Same as before. Minor trash found at 8th Street entrance.
Erosion	None noted	None noted	No erosion noted. Sedimentation present at the upstream entrance.	No new noted
Weeds	Invasive species noted include scott's broom, reed canary grass, and blackberry	Same as before, plus field bindweed and common teasel	Blackberry and knotweed	Reed canary grass, blackberry, and scott's broom noted
Fencing	Damage to middle viewing platform	Same as before	Good	Good
Plantings	No recent plantings	No recent plantings	No recent plantings	No recent plantings
Flora	Alder thriving, other plants doing well; some strawberry volunteering at south end	Native plantings doing well despite overabundance of alder; once alder thinning has occurred, replant with shrubs and groundcover; some beaver damage to alders noted	Generally healthy with some drought stress	Generally healthy. Big leaf maple and possibly madrone volunteers were noted.
Fauna	Avian species, beaver evidence, ducks	None noted	Fish, frog, small fish in channels, and a new beaver dam (near PP2)	Insects, juvenile hawk, small avian species, and evidence of beaver and moles.
Photo-documentation	Not taken	Not taken	Taken	Not taken

Table 5
ESP Site Record

ESP Site Record: Jordan				
Observational Categories	12/14/10	2/2/2011 (City)	4/29/2011 (CHB)	6/9/2011 (CHB)
Human Impacts	No new impacts were noted	Ten fir trees cut along with some alder on the south hill used to make another structure. Also, minor trash associated with fishing areas. Small firepit found on trail up slope from photo point 1.	No new impacts were noted	No new impacts were noted
Erosion	None noted	Slide on east side of trail near south end continuing	None noted	None noted
Weeds	Same as before	Same as before	Same as before, plus herb Robert noted	Blackberry, reed canary grass, herb Robert, scott's broom, vetch, morning glory, tansy ragwort and purple loosestrife noted
Fencing	Same as before	Good - intact	No change noted	No change noted
Plantings	No recent plantings	No recent plantings	No recent plantings	No recent plantings
Flora	Generally good.	Generally healthy with no disease, stress or damage noted (except as noted above)	Overall the site appears healthy with many species noted as doing well. One large cottonwood was down on the west side near the trail.	Overall many species were noted as doing well. Some big leaf maple volunteers were identified. There were some signs of beaver damage on trees near the creek. A couple of Douglas fir had some brown needles, but the site appears generally quite healthy.
Fauna	None noted	Beaver, red-winged blackbird, dog, ducks, small avian species	None noted	Ducks in the creek
Photo-documentation	Not taken	Taken	Not taken	Not taken

Table 6
ESP Site Record

ESP Site Record: Middle Waterway, City					
Observational Categories	8/12/09	10/21/09	12/10/09	2/9/2010	4/28/10
Human Impacts	Minor trash - along roads and high tide line	Large hole and shovel found in upper marsh - minor damage to salt grass establishment	no new noted	minor trash/hole	Minor trash; appears someone may have planted irises near the boat facility
Erosion	Non-significant	not noted	not noted	minor	Same as before
Weeds	Small areas of knapweed, blackberry, nightshade, pampas grass, butterfly bush, white sweet clover	no new noted	no new noted	More pampas grass noted	Reed canary grass, curled dock, thistle, blackberry, and St. John's wort noted
Fencing	Perimeter fencing intact	same	same	same	Same as before
Plantings	Could use additional riparian plants in areas	Planting proposed in the square marsh area paralleling F Street	Planting proposed in the square marsh area paralleling F Street	Some trees cut under power lines	No recent plantings
Flora	Jaumea spreading	Volunteer birch, oak	same	no new noted	Plants appear generally healthy; lupine, vine maple, wild pea, salmonberry, willows, pickleweed, and saltgrass doing notably well; horsetails are volunteering and doing well
Fauna	Avian species noted	small avian species, bunny, gulls, crow	small avian species, ducks, geese	Bunny, dog, gulls	Rabbit and geese
Photo-documentation	Taken	Not taken	Not taken	Taken	Not taken

Table 6
ESP Site Record

ESP Site Record: Middle Waterway, City					
Observational Categories	6/26/10	8/10/10	10/28/10	12/20/10	2/2/2011 (City)
Human Impacts	Same as before	Minor trash	None noted	Minimal trash	Minor trash
Erosion	Same as before	None noted	Same as before	None noted	None noted
Weeds	Same as before, plus oxeye daisy and plantain	White sweet clover in the square marsh, and dames rocket near the substation. Knapweed removal needed near the outfall off 11th.	Reed canary grass, curled dock, thistle, blackberry, St. John's wort, black medic, and oxeye daisy noted	Only creeping buttercup noted	No new noted
Fencing	Same as before	Perimeter fencing intact	Same as before	Same as before	Same as before
Plantings	No recent plantings	Low survival due to lack of irrigation	Same as before	Generally healthy with only the Oregon grape showing some possible stress	Generally good, with some rabbit damage to big leaf maple and red flowering currant
Flora	Plants generally healthy, as before; lupine dying out; rose hips, wild pea, and ocean spray are blooming; spruce and oak trees look good; some broken limbs observed	Generally healthy with some heat/sun stress. Fleshy jaumea noted in the square marsh along with continued spread of pickleweed and saltgrass.	Generally good with some fall/winter die back noted	All generally doing well with only the Douglas fir showing some possible stress	Generally good with no disease or stress identified
Fauna	Dead rodent, monarch butterflies, and dragonfly	Great blue heron, crickets, and small avian species	Avian species	Ducks in the water adjacent to the site	Clams and seagulls
Photo-documentation	Not taken	Taken	Not taken	Not taken	Taken

Table 6
ESP Site Record

ESP Site Record: Middle Waterway, City			
Observational Categories	4/29/2011 (CHB)	6/17/2011 (CHB)	8/9/2011 (City)
Human Impacts	Minor trash	Minor trash	Some dumping of yard debris near the storm outfall was noted along with minor other trash
Erosion	None noted	None noted	An area of erosion was observed between the side riparian and the side marsh
Weeds	Most invasives present are in the side riparian near the power station and boat yard. Blackberry, dock, thistle, reed canary grass, vetch, and dandelions were noted.	Blackberry near road and in far corner between the boat yard and the power station. St. John's wort observed throughout the site. Small amount of curled dock and tansy observed. The white sweet clover is coming in in the mid-backshore area.	Blackberry, reed canary grass, thistle, white sweet clover and morning glory were noted.
Fencing	Same as before	No change noted	No change noted
Plantings	Plantings nearest the road are doing well, and those closer to the marsh are not as healthy looking. Two of the young shore pine are bent over and need to be staked.	All of the recent plantings in both the riparian area and in the backshore/marsh appear to be doing very well. Only two dead trees were noted.	Fifty percent survival in the side riparian area and 80% in the high marsh were estimated
Flora	All are doing generally well and are beginning to bud and flower. Some willow and rose volunteers were noted.	Overall site appears quite healthy. Several species in bloom, two volunteer Garry oak trees were noted, and the saltgrass, tufted hair grass, and pickleweed in the outer marsh were very thick. Plants in the far backshore are still somewhat more sparse.	Plants were dry with many showing drought stress. Fleshy jaumea is becoming well established and was noted in many more areas than before. Volunteer gumweed, Oregon ash and oak were observed in the riparian area and pickleweed and saltgrass were noted in the marsh. Maple leaves had been eaten. Rose was doing notably well.
Fauna	Rabbit, chestnut-backed chickadee, winter wren	Song birds	Seagulls, dog, bees, killdeer and a rabbit
Photo-documentation	Not taken	Not taken	Taken

Table 7
ESP Site Record

ESP Site Record: Middle Waterway, Simpson				
Observational Categories	8/12/09	10/21/2009*	12/10/09	2/3/10
Human Impacts	Minimal trash. Vagrant activity noted on the south end of the site near 11th Street	Vagrant activity continues. TPD notified	Vagrant activity continues. TPD notified	minor trash
Erosion	none noted	none noted	small area noted in transition area b/t riparian and marsh - exposing metal piece	minor
Weeds	minor pea, st. john's wort, blackberry	no new noted	sumac, pampas grass	pampas grass removed
Fencing	n/a	n/a	n/a	same
Plantings	50%? Mortality due to weather/heat stress	none noted	May need fill-in shrubs or dune grass at toe	Planting planned for spring 2010
Flora	Dry Rose doing well	not noted		no new noted
Fauna	Avian species noted	avian species, gulls	ducks, geese, small avian species	gulls, geese, small avian species, sparrow
Photo-documentation	Taken	Not taken	Not taken	Taken

Table 7
ESP Site Record

ESP Site Record: Middle Waterway, Simpson				
Observational Categories	4/28/10	6/26/10	8/10/10	10/28/10
Human Impacts	Minimal trash; some dog prints on site	Minimal trash	Some indications of loitering activity, but no apparent overnight visitors. Gas cans were noted in the riparian area approximately 30' south of photo point 2.	Minimal trash. Some cut logs present near the entrance to the site.
Erosion	Same as before	Same as before	None noted	Minor erosion at the base of the berm
Weeds	Same as before	Same as before, plus possible black medic	St. John's Wort, blackberry, and knapweed (purple, near 11th)	Possible black medic and some unknown rushes
Fencing	n/a	No perimeter fencing; goose exclusion fencing in good condition	Same as before	Same as before
Plantings	Some saltgrass plantings are partially exposed due to tidal impacts; pickleweed appears healthy	Same as before; still doing generally well	Pickleweed and dune grass doing well, although some new dune grass (~60%) munched by rabbits	Some dunegrass partially exposed and pickleweed struggling a little
Flora	Generally healthy; a few trees, particularly madrone, appear stressed; saltgrass is spreading, lupine growing, and pickleweed doing well	Generally healthy, as before	Generally healthy with some heat/sun stress noted. Pickleweed coming in well on outer benches in areas both with and without goose exclusion.	Generally healthy with some spotting on madrone leaves noted. Some rose plants volunteering, along with oak tree, and goldenrod.
Fauna	Rabbit and goose scat	Rabbit, crows, monarch butterflies, and avian species	Rabbits, great blue heron, and small avian species	None identified
Photo-documentation	Not taken	Not taken	Taken	Not taken

Table 7
ESP Site Record

ESP Site Record: Middle Waterway, Simpson				
Observational Categories	12/20/10	2/2/2011 (City)	4/29/2011 (CHB)	6/20/2011 (CHB)
Human Impacts	Minimal trash. Some cut firewood remain on the upper beach near the south end of the site.	Minor trash and some firewood remaining at the south end	Minor trash and some firewood remains on site	Same as before
Erosion	Minor erosion at parts of the base of the berm	Same as before	No change noted	Minor erosion was noted at the base of parts of the berm as well as near the north beach
Weeds	Same as before	No new noted	Invasive species present include blackberry, reed canary grass, dock, and dandelions	St. John's wort, black medic, pea, vetch, blackberry and dandelion were noted
Fencing	Goose exclusion fencing remains in good condition	Same as before	Goose exclusion fencing can be removed as it is no longer necessary	Same as before
Plantings	Generally healthy, although some dune grass possibly showing stress	Generally healthy with 90% survival of dune grass estimated	Generally healthy with some Douglas fir possibly slightly stressed	Generally doing well with some animal damage to the shrubs noted. Some of the pickleweed within the goose exclusion fencing is not doing well.
Flora	Generally healthy throughout, although some madrone showing possible stress with spotting on the leaves	Pickleweed in GED looking good and filling out. No disease or stress noted. Minor rabbit damage to roses - approximately 25%.	The vegetation generally appears healthy throughout the site with no stress or animal damage noted	Overall, the site appears healthy throughout with only some minor stress noted. Several volunteer species are present, and several plants are either in bloom or have recently bloomed.
Fauna	Small avian species	Dog, raccoon footprint, small avian species, and seagull	None noted	Seagulls, bees, and a crow were noted
Photo-documentation	Not taken	Taken	Not taken	Not taken

Table 8
ESP Site Record

ESP Site Record: Olympic View, City/DNR					
Observational Categories	8/13/09	10/21/09	12/10/09	2/3/10	4/30/10
Human Impacts	none noted	Bricks uncovered by tidal push of gravels	none noted	none new noted	Minor trash
Erosion	Some noted on west side of salt marsh entrance	same - increasing	same increasing	Fine sand deposited with recent high tide. Same erosional areas near the mouth of the triangle area. More erosion noted near sign - will need to move sign	Minor erosion; sign has been moved
Weeds	Heavy population of invasives along perimeter goose exclusion	same	Pepperweed, poison hemlock, mustard, blackberry, nightshade removal	St. John's wort	Same as before, plus tansy ragwort
Fencing	Good condition	same	same	same	Minor repair needed on south fence; goose exclusion in good condition
Plantings	Recent planting of salt marsh - will need to watch for survivability in spring	same	same	same - few hints of plant growth on salt marsh plantings	Same as before; limited growth in salt marsh area
Flora	Rose doing well	Some heat stress noted. Fungal disease/aphids (?) noted	all riparian doing well	Bunny predation on snowberry	Generally in good condition; only very minor damage/predation noted
Fauna	Avian species noted. Rabbits and fish also noted	bunny	ducks, gulls, small avian species	bunny, duck, gulls	Nesting geese plus gulls, heron
Photo-documentation	Taken	Not taken	Not taken	Taken	Not taken

Table 8
ESP Site Record

ESP Site Record: Olympic View, City/DNR					
Observational Categories	6/26/10	8/11/10	10/25/10	12/28/10	2/2/2011 (City)
Human Impacts	Minor trash	Minor trash	Minor trash and exposed netting	Minor trash	None noted
Erosion	Minor erosion	No erosion noted. Still push of gravels at mouth.	Minimal erosion in the riparian area noted	Some erosion noted in the triangle where some willows were washed away	Push of gravel at mouth/entrance has extended all the way across and there is approximately 2-3 inches of standing water behind. Some erosion at mouth and at photo point 6 and on bayward edge of rip rap slope.
Weeds	Same as before plus possible knotweed	St. John's wort, pepperweed tansy, blackberry, thistle and dock noted	Same as before plus wild fennel	Same as before	No new noted
Fencing	Same as before	All in good condition	Back south part of fence needs minor repair	Same as before	Same as before
Plantings	Generally same as before, although majority of recently planted maples are showing stress	Low survival for upland plants near the gate	50-60% survival near the gate with lowest survival in the northeast corner. Approximately 90% survival of the willows in the triangle.	OVRA - Approximately 40% of recent plantings appear stressed, with lowest survival in the northeast corner. OVRA T - Approximately 70% survival of willow in the triangle with some lost to erosion.	No recent plantings
Flora	Same as before; two young spruce leaning heavily	Generally in good condition with some drought/heat stress noted. Salt marsh showing minor success of a few species.	Generally healthy with minimal vegetation present in the marsh	Generally in good condition	Generally healthy with no disease or stress noted, and only minor rabbit damage
Fauna	Geese, nesting gulls	Caspian terns, crow, geese and gulls	Seagulls	Seagull	Red-winged blackbird, geese, and seagulls
Photo-documentation	Not taken	Taken	Not taken	Not taken	Taken

Table 8
ESP Site Record

ESP Site Record: Olympic View, City/DNR			
Observational Categories	4/29/2011 (CHB)	6/17/2011 (CHB)	8/9/2011 (City)
Human Impacts	Minor trash	None noted	Minor trash
Erosion	No new erosion noted since the last inspection in February	Bank near P6 is continuing to erode and several willows have some exposed roots	Small amount at the point and along the front of the OVT berm
Weeds	Tansy ragwort is coming in, and some thistle is present throughout	St. John's wort, tansy ragwort, thistle and blackberry noted	A large amount of St. John's wort was noted throughout the site
Fencing	Same as before.	No change noted	The perimeter fencing could be removed, and GED should be removed as it is falling down and impacting establishing vegetation
Plantings	Generally in good condition, with 20-30% mortality estimated	Three willows, three roses, two maples, and three red flowering currant are surviving, but all are being overgrown by St. John's wort	No recent plantings
Flora	Generally healthy with no plant stress noted and minor rabbit damage to the roses observed	Site is generally healthy. Several patches of silverweed were in bloom and the roses were spreading in several areas. There is a considerable amount of buttercup and sheep's sorrel present. Two shore pines are leaning heavily near the gate.	Salt marsh vegetation is minimal, but encouraging - scirpus, salt grass, pickleweed, orache and potentilla were observed. Some rabbit damage was identified. Some of the willows are doing very well while some are dead or showing drought stress.
Fauna	Geese nesting on the outer perimeter, and seals	Many geese present on the beach	Caspian tern, seagull chicks, geese, rabbit and crow
Photo-documentation	Not taken	Not taken	Taken

Table 9
ESP Site Record

ESP Site Record: Tahoma Salt Marsh					
Observational Categories	8/12/09	10/21/09	12/3/09	2/3/10	4/25/10
Human Impacts	Continued vandalism to sprinkler system. Minor trash	none noted	none noted minor trash	none noted	Minor trash
Erosion	Some noted associated with logs and mouth	same	same	same	None noted
Weeds	Small areas of tansy, nightshade, blackberry, thistle	birds foot trefoil and pea on plants	Thistle removed on island Tansy still spotty throughout	none new noted	Blackberry, vetch, thistle, and reed canary grass
Fencing	Good condition	Chinese Reconciliation Park filling has removed fencing on North side	same	same	Same
Plantings	Dry Could use some additional plants on the island.	Plantings proposed for island	Mulching event planned for December 12	Red flowering currant and OR grape showing color. Plantings planned for the island and few in the riparian areas spring 2010.	Pickleweed and saltgrass doing well
Flora	Doing well. Salt marsh plants filling in slowly.	same	Sprinklers to be turned off next summer	Sprinklers set to be off	Generally healthy; a few plants appear stressed
Fauna	Avian species noted. Rabbit	Beaver, killdeer, geese	geese, small avian species	geese	Juvenile fish, deer tracks, seagull carcass
Photo-documentation	Taken	Not taken	Not taken	Taken	Not taken

Table 9
ESP Site Record

ESP Site Record: Tahoma Salt Marsh					
Observational Categories	6/23/10	8/31/10	10/27/10	12/18/10	2/2/2011 (City)
Human Impacts	Minor trash	Minor trash	None noted	Minor trash	Minor trash
Erosion	Minimal erosion caused by broken sprinkler	No significant erosion	None noted	Minor erosion in the mouth area at the marsh/upland transition	Some sedimentation near the mouth and LWD on the west
Weeds	Same as before	Pepperweed, blackberry, thistle, tansy, and morning glory	Tansy and reed canary grass noted	Same as before	Some tansy rosettes noted
Fencing	Same as before	Same as before	Generally in good condition	Same as before	Same as before
Plantings	Newly planted vine maples look good	Generally good, with 10-20% dead due to heat/weather stress	Same as before	Same as before	Looking good
Flora	Same as before	Generally healthy with lots of pickleweed starts. <i>Scirpus maritimus</i> is established. One area of gumweed on toe of Riparian Area E appears dead. Some heat/weather stress.	Generally in good condition	Generally in good condition with some trees showing possible minor stress	Generally good with no disease or stress noted, and only old, minor animal damage. Oregon grape and red flowering currant are starting to flower.
Fauna	Deer tracks and evidence of deer predation, sandpipers	Deer, raccoon (?) paw print, small avian species, and goose poop on island	Deer tracks and evidence of goose presence	Heron, goldfinches	Seagulls, killdeer, small avian species, deer, finches, ducks, geese, dog, crow, beaver marks on willows, sea lion, and rock doves
Photo-documentation	Not taken	Taken	Not taken	Not taken	Taken

Table 9
ESP Site Record

ESP Site Record: Tahoma Salt Marsh			
Observational Categories	4/9/2011 (CHB)	6/16/2011 (CHB)	8/9/2011 (City)
Human Impacts	Minor trash	There were two people present on the outer "island" portion of the site. No impacts were noted.	Two firepits were found on the outer island.
Erosion	None noted	None noted	Minor in the area of recent planting
Weeds	Invasive species present include thistle, dock, tansy ragwort, reed canary grass, and blackberry	Reed canary grass and vetch are present throughout the site. Thistle and white sweet clover were observed on the outer portion of the site, along with a small amount of blackberry and curled dock.	Thistle, reed canary grass and blackberry were noted.
Fencing	GED fencing from past plantings was reused in new planting areas	Some LWD is pushing against the GED fencing	GED in fair condition
Plantings	New plantings completed in April	Many of the plugs in the marsh are partially exposed by the tide and dried out. Only 6 of the gumweed plugs were found. Some animal (probably deer) damage was noted.	6 gumweed and some of the carex/hairgrass on the slope were uprooted by the tide. Others are doing well.
Flora	Overall, vegetation appears healthy with no plant stress or animal damage noted	Overall the vegetation is doing quite well in both the riparian area and in the marsh. Some volunteer pickleweed is coming in on the south/southwest side of the marsh.	The scirpus is well established and brass buttons are populating more of the site. Many salt grass and pickleweed volunteers were observed where none were before. The site is dry. Taller weeds need to be removed from around trees and shrubs. Cottonwood was volunteering in the riparian area and fleshy jaumea in the marsh.
Fauna	None noted	Deer prints observed in the newly planted portion of the marsh	Crabs, dog, sand fleas, mussels, barnacles and deer
Photo-documentation	Not taken	Not taken	Taken

Table 10
ESP Site Record

ESP Site Record: Swan Creek					
Observational Categories	8/19/09	10/21/09	12/16/09	2/3/10	4/28/10
Human Impacts	Trails established by fisherman, social. Some trash noted at north end and south end.	Noted beaver dam removal by (?) neighbor	Less human evidence now that LRSS is closed	Cut/broken vegetation due to trail use.	Some trash, particularly near LRSS
Erosion	None noted - flow continues to be modified by beaver activity	Pierce Co recently dredged upstream sediment pond	Jute mat to be placed on steep slope areas	Stream turbidity noticed due to heavy rain	None noted
Weeds	Heavy areas of blackberry and reed canary grass. Minor areas of scott's broom, morning glory, knotweed	same - also large areas of ivy. Small areas of knotweed injection completed in September	Blackberry and ivy removal in progress - to be followed by spring planting	nightshade and poison hemlock	Blackberry regrowth noted, along with substantial invasives on island; same species as before, plus Herb Robert, policeman's helmet, thistle, curled dock, vetch, and tansy
Fencing	Fair condition. North fencing recently replaced to deter further dumping	Fencing by Lil Red Smokeshack (LRSS) damaged in Federal drug raid.	Fence repair in progress	Fence repaired	Good condition
Plantings	Minor damage by beaver.	Good survivability at North end slope	Plantings planned for next Spring on slope areas	same	Plantings are doing well
Flora	Great coverage near stream and channels.	Red Osier Dogwood looks great. Upper riparian near Pioneer and the LRSS may need some added shrubs and trees	Sitka spruce doing well where established. Noted large tree down on far side of wetland paralleling RxR tracks.	Indian plum, red flowering currant, and OR grape showing color	All generally healthy; some vine maple starts observed; minimal beaver damage noted; supplemental planting on island following invasive removal needed
Fauna	Beaver. Avian species noted	Great Blue Heron, small avian species, ducks	Dead salmon noted in stream, deer, beaver, hooded merganser	beaver	Ducks, snake
Photo-documentation	Taken	Not taken	Not taken	Taken	Not taken

Table 10
ESP Site Record

ESP Site Record: Swan Creek					
Observational Categories	6/25/10	8/11/10	10/29/10	12/15/10	2/9/2011 (City)
Human Impacts	Minor trash; debris on site from demolition of adjacent LRSS	Same as before	Same as before	Minimal trash	Minimal trash
Erosion	None noted	No erosion noted. Some sedimentation near Channel A diversion - spit growing but still passable.	None noted	None noted	None noted
Weeds	Same as before, plus wild pea and dames rocket	Blackberry regrowth along Pioneer noted, along with morning glory, willowherb and small ivy starts	Wild pea, blackberry, reed canary grass, and St. John's wort noted	Reed canary grass, thistle, blackberry, herb Robert, buttercup, and St. John's wort noted	No new noted
Fencing	Fence damaged during demolition of adjacent LRSS; notified Bill Sullivan	Same as before. No repairs have been performed at this time	Same as before	Same as before	Same as before
Plantings	Oregon grape and ocean spray doing well	Some mortality for those with sun/heat exposure - shaded plants doing well	Generally doing well, although some Douglas fir not doing well, and some red flowering currant looking dried out	Generally doing well, with Douglas fir showing some possible stress	Generally doing well with approximately 10 douglas fir recently planted on the island
Flora	Good condition; minor stress of some trees noted	All generally healthy with some heat stress and conifers surviving better than shrubs. Trailing blackberry volunteering at the north end.	Generally healthy	Generally healthy with some wind damage noted	Generally healthy with no disease or stress noted, and typical beaver damage. Black hawthorne on the island doing notably well.
Fauna	Ducks	Bees	Salmon	Salmon, ducks, perching birds, and a bald eagle	Mole, ducks, dead fish, eagle, red-tailed hawk, seagul
Photo-documentation	Not taken	Taken	Not taken	Not taken	Taken

Table 10
ESP Site Record

ESP Site Record: Swan Creek			
Observational Categories	4/29/2011 (CHB)	6/9/2011 (CHB)	8/11/2011 (City)
Human Impacts	Minor trash and debris remains from the demolition of the adjacent LRSS	Possibly some trees near Pioneer had been cut and removed?	Trash from removal of LRSS remains and has pushed farther onto the site.
Erosion	None noted	None noted	None noted
Weeds	Blackberry, thistle, dock, scott's broom, dandelions, herb robert, and reed canary grass	Blackberry, thistle, vetch and knotweed were noted	Hop vine was found at the north end of the site growing with the morning glory. Policeman's helmet needs to be pulled on the far side of the creek.
Fencing	Same as before	Same as before	Both chain and rope that have been placed between the bollards have been taken so the fence requires repair again.
Plantings	Douglas fir continue to thrive, and some die off of deciduous plantings were noted	Plantings are continuing to do well. Grass is high around new plantings. Some mulch could be placed.	Maintenance around the plants at the north end is needed in order to evaluate survival. Minor beaver damage was noted. Some drought stress was also identified.
Flora	Generally healthy with no plant damage noted, and only minor yellowing of needles on two young fir trees observed	Overall site is doing well with only minor animal damage (beaver) noted	Willow and alder are starting to establish by photopoint 1.
Fauna	Mallard family, and swallows	Ducks, crows, stellar jay, song birds, swallowtail butterflies, snakes and signs of beaver were observed	Beaver, chickadee, cedar waxwing, crow, small avian species and kingfisher
Photo-documentation	Not taken	Not taken	Taken



YOWKWALA

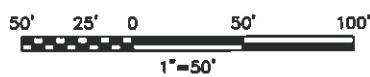


150' 75' 0 150' 300'
1"=150'



50' 25' 0 50' 100'
1" = 50'

SKOOKUM WULGE



SQUALLY BEACH

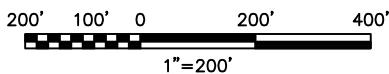




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1"=100'

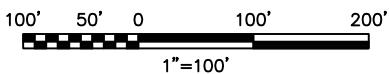
MOWITCH - HEAD OF HYLEBOS





JORDAN/LOWER HYLEBOS MARSH





MIDDLE WATERWAY, CITY



150' 75' 0 150' 300'
1"-150'

MIDDLE WATERWAY, SIMPSON



150' 75' 0 150' 300'
1"=150'

OLYMPIC VIEW, CITY & WDNR



100' 25' 0 50' 100'
1"=50'

TAHOMA SALT MARSH



200' 100' 0 200' 400'
1"=200'

SWAN CREEK