

Table 1  
ESP Site Record

ESP Site Record:  
Yowkwala

| Observational Categories   | 11/30/12 (CHB)  | 2/12/13 (City)  | 5/3/13 (CHB)  | 8/20/13 (City)  |
|----------------------------|---|---|---|---|
| <b>Human Impacts</b>       | A small pile of trash had been collected and piled up at the front of the site. There was also minor trash on the remainder of the site. Vandalism continues of the recently planted areas. | Minor trash and indication of one small fire pit and fishing area near the west end of the site   | Moderate trash and some signs of partying were noted  | Evidence of approximately three firepits was observed, along with a small lean-to with a blanket and pillow that should be removed. Minimal trash was noted. It appears as if the pepperweed in the marina area was sprayed along with the dune grass. Still no removal of the debris piled in the shoreline in this area |
| <b>Erosion</b>             | None noted  | Major gravel push/sedimentation has occurred after an extreme high tide winter storm. Gravel and wood debris that came in with the storm have covered much of back marsh. | None noted  | Some additional erosion was noted in there area near the fallen madrone on the beach  |
| <b>Weeds</b>               | No new species observed   | Pampas grass was the only invasive noted, although blackberry and poison oak remain prevalent   | Curled dock, pepperweed, morning glory, blackberry and wild pea were noted near the beginning of the beach. Scot's broom in the middle part of the beach along with butterfly bush and some blackberry. | Morning glory, nightshade, blackberry, pepperweed, thistle, hawkweed, pampas grass and mullein were noted   |
| <b>Fencing</b>             | No change   | No change   | No change   | No change   |
| <b>Plantings</b>           | None of the cedars have survived and eight of the shore pine are also dead. One of the mock orange had been pulled out but was replanted. There were several empty mulch rings              | Gravel push has covered some recent plantings   | Recent plantings are in need of some mulch. The beaked hazelnut is also doing well and the dune grass is flourishing. The gumweed mid-site in the back marsh area is also coming back                   | Overall plantings are doing well and need of some additional mulch. A few dead plants were noted. Additional plantings are needed in the cleared areas.   |
| <b>Flora</b>               | Some stress on two of the madrones was noted.   | No plant stress noted and the site is in winter dormancy. Much of the gumweed in the back marsh has been covered with gravel and wood debris.                             | Various rose species are doing well. Some of the young shore pine are not doing as well.  | Rose species are continuing to come in well in the cleared areas. Some drought stress was noted.  |
| <b>Fauna</b>               | Eagles, hawk, juncos, flickers, great blue heron, and hummingbirds  | Small avian species, sea gull, sea lion, hawk   | Eagles  | Great blue heron, crows, seagulls and small avian species   |
| <b>Photo-documentation</b> | Not Taken   | Taken   | Not Taken   | Taken   |

Table 2  
ESP Site Record

ESP Site Record:  
Skookum Wulge

| Observational Categories   | 11/30/12 (CHB)   | 2/12/13 (City)   | 5/3/13 (CHB)   | 8/20/13 (City)  |
|----------------------------|--|--|--|---|
| <b>Human Impacts</b>       | Minor trash in the south marsh, particularly styrofoam   | One large auto bumper was present but there was little other trash   | Some trash was noted   | One firepit was noted in the south area. Minimal trash was observed.  |
| <b>Erosion</b>             | Erosion of the slope continues, with signs of recent slumping. The maple tree near the north end marsh has exposed roots.  | High tide winter storm washed away much of the LWD from the northern marsh area and caused additional erosion of the slope                                     | Erosion of the slope continues   | Erosion of the slope continues  |
| <b>Weeds</b>               | Minor regrowth of ivy and blackberry in the south uplands  | Scot's broom and ivy were noted  | Scot's broom and ivy are present on the southern slope. Thistle, curled dock, blackberry and some pepperweed were also noted.  | Some ivy is coming back and should be spot sprayed. Pea and Scot's broom were also noted.   |
| <b>Fencing</b>             | No change noted  | No change noted  | No change noted  | No change noted   |
| <b>Plantings</b>           | Most of the plants in the south uplands/slope area are doing well. The dune grass and gumweed planted on the south end in 2011 are doing well.   | Most of the plants in the south marsh area washed away in the winter storm. Some of the dune grass survived.   | No changes were noted  | Mulch is needed around plants. Approximately half of the recent plantings on the south slope have survived. Additional plantings of dune grass, snowberry, ocean spray and shore pine would be beneficial.  |
| <b>Flora</b>               | Several species doing notably well, including sword fern, coastal strawberry, Douglas fir, snowberry, Oregon grape and shore pine. Some insect gall was found on the roses. Fireweed, cottonwood, rushes and coastal strawberry are volunteering and spreading nicely. | Dune grass in the marsh area survived the winter storm. Generally the site is in winter dormancy. Some more plants need to be salvaged from the eroding slope. | Trailing blackberry, snowberry Oregon grape and red-flowering currant are all doing well. Rushes and alder and maple are volunteering on the site. The willows and cottonwood are in bloom and the dune grass along the edge of the north marsh is doing well. | Some drought stress was noted. One big leaf maple to the right of the sign has died. Cottonwood volunteers and dune grass were noted as doing well. Lots of lambs quarter was noted colonizing the north and south marsh areas since the gravel push. |
| <b>Fauna</b>               | None noted   | Geese and seagulls   | Purple martins have been nesting in the boxes  | Geese, small avian species and grasshoppers were noted  |
| <b>Photo-documentation</b> | Not taken  | Taken  | Not taken  | Taken   |

Table 3  
ESP Site Record

ESP Site Record:  
Squally Beach

| Observational Categories   | 11/30/12 (CHB)  | 2/12/13 (City)  | 5/3/13 (CHB)  | 8/20/13 (City)  |
|----------------------------|---|---|---|---|
| <b>Human Impacts</b>       | None noted  | Minor trash   | A car bumper was found on site  | None noted  |
| <b>Erosion</b>             | Minor erosion on the outside edge of the material that was used to create the small berms between the marsh and the mudflats was noted.                                       | Minor erosion along the front of the site was noted   | There is an undercut area underneath the willows on the northern end of the beach   | Erosion has increased somewhat in the area at the north end under the willows and at the opening to the west island.  |
| <b>Weeds</b>               | Minor blackberry was noted on the berm  | No new invasives noted  | Wild pea, reed canary grass, and blackberry were noted throughout the berm and knotweed from the neighboring site continues to pose a threat.   | A few small knotweed were noted under the willows at the north end. No spartina was observed. Small amounts of pepperweed and white sweet clover are present. |
| <b>Fencing</b>             | Not applicable  | Not applicable  | Not applicable  | Not applicable  |
| <b>Plantings</b>           | No recent plantings   | Recent plantings are doing well   | Some of the willow stakes are doing very well   | Some invasive removal is needed in the recently planted area.   |
| <b>Flora</b>               | Snowberry, Douglas fir, spruce, alder, willow and roses are all doing well. There are some galls on the roses. The salt grass, jaumea, rushes and gumweed are all doing well. | No plant stress was noted and the site is in winter dormancy. Some of the carex appeared to have been pulled out but not munched, and others that were partially eaten but still in the ground. | Douglas fir, other conifers, and snowberry appear healthy and willows, roses, alders, and ocean spray are also doing well. Salt grass, Lyngby sedge and pickleweed are all thriving in the marsh. Some tent caterpillars were observed on site. | No new volunteer species were noted. All plants were noted as well established and doing well. Some rose gall was observed.                                   |
| <b>Fauna</b>               | None noted  | None noted  | Various water fowl  | Small avian species   |
| <b>Photo-documentation</b> | Not taken   | Taken   | Not taken   | Taken   |

Table 4  
ESP Site Record

ESP Site Record:  
Mowitch

| Observational Categories | 11/30/12 (CHB)  | 2/12/13 (City)   | 5/3/13 (CHB)  | 8/20/13 (City)  |
|--------------------------|---|--|---|---|
| Human Impacts            | None noted  | None noted   | None noted  | Minimal trash associated with the tideline  |
| Erosion                  | None noted  | None noted   | None noted  | No significant amount noted   |
| Weeds                    | Reed canary grass was noted throughout the site. One large Fuller's teasel was also identified. Some insect damage to the willows and one alder was also noted.   | Phragmites is still present on the opposite bank, so need to check this site in the spring | Reed canary grass, blackberry, curled dock and pepperweed were observed   | There are still two areas of phragmites on site and a large patch on the opposite bank of the creek   |
| Fencing                  | No change noted   | No change noted  | No change noted   | No change noted   |
| Plantings                | No change noted   | No change noted  | Douglas fir are doing well  | Only one of the four Douglas fir trees planted appears to have survived.  |
| Flora                    | There is a flat open area with no plants growing near the fence about mid-site. From the end of zone 1 and part of zone 2 there is a section with no adult trees. There are only shrubs and one young shore pine. Many of the planted species in both the riparian area and in the marsh/on the islands are doing well. | No plant stress was noted and the site is in winter dormancy                               | Hawthorne are in bloom. Dogwood, cottonwood, snowberry, red-flowering currant, rose and lupine are doing well. Some willows appear affected by the poplar/willow borer. Some fungus was observed on one Douglas fir tree. | Vegetation is very slowly populating the island areas. Tent caterpillars are present in about half of the alders. Some drought stress was noted but overall the site is doing well. |
| Fauna                    | Widgeons  | Small avian species and geese  | Killdeer, geese and signs of beaver usage   | Killdeer, widgeon ducks, geese and small avian species  |
| Photo-documentation      | Not taken   | Taken  | Not taken   | Taken   |

Table 5  
ESP Site Record

ESP Site Record:  
Jordan

| Observational Categories   | 11/30/12 (CHB)  | 2/12/13 (City)   | 5/30/13 (CHB)   | 8/22/13 (City)  |
|----------------------------|---|--|---|---|
| <b>Human Impacts</b>       | Several of the alders on the west side of the trail had orange flagging tied around them.   | None noted. A WCC crew for the City of Fife was working on the hill above the bowl area east of the trail near platform 2 clearing blackberry off of the hillside. | None noted  | Some social trails are present but only minimal trash. A blanket and trash were noted in one area near the 8th Street end.                    |
| <b>Erosion</b>             | None noted  | None noted   | None noted  | None noted  |
| <b>Weeds</b>               | The small hill on the west side of the trail is being overrun by RCG. There are no shrub species there, only some alder and conifers.                             | Only reed canary grass noted   | Extensive reed canary grass is present in addition to some blackberry   | Extensive reed canary grass remains and could be tied.  |
| <b>Fencing</b>             | No change noted   | No change noted  | No change noted   | No change noted   |
| <b>Plantings</b>           | Plantings from earlier in the month are doing well so far.  | Recently placed plants in the bowl area are looking good   | The recently planted Douglas fir trees are in danger of being overtaken by reed canary grass that has grown taller than them.                                   | Some invasive removal is needed in order to determine whether recent plantings are surviving.   |
| <b>Flora</b>               | Species noted as doing well include elderberry, Douglas fir, spruce, shore pine, snowberry, ocean spray, alder, sedges, dogwood, willows and trailing blackberry. | Overall site looks good with no plant stress noted. The site is in winter dormancy.  | Salmonberry, alders and buttercups were noted. There were lots of horsetails volunteering. Approximately half of the young madrones have some blackened leaves. | Some drought stress was noted. Mulch should be placed around the plantings. Overall plants are doing well with good growth on conifers noted. |
| <b>Fauna</b>               | Frogs   | Beaver (no fresh evidence), hawk and small avian species   | Songbirds   | Small avian species, beavers and spiders  |
| <b>Photo-documentation</b> | Not taken   | Taken  | Not taken   | Taken   |

Table 6  
ESP Site Record

ESP Site Record:  
Middle Waterway, City

| Observational Categories   | 11/28/12 (CHB)   | 2/14/13 (City)   | 5/31/13 (CHB)  | 8/22/13 (City)   |
|----------------------------|--|--|--|--|
| <b>Human Impacts</b>       | A hole was discovered in the side riparian area filled with a torn red plastic bag and white fur. The fur was also found a few feet away. There were no bones noted. | Minor trash  | None noted   | Limbs were trimmed up 14' on the NW side of the square marsh at the adjacent property owners request as he plans to install a 6' fence on the property line. Minor trash was noted along the tideline. |
| <b>Erosion</b>             | None noted   | None noted   | None noted   | No significant erosion noted   |
| <b>Weeds</b>               | No new species noted   | No new species were noted  | White sweet clover is present and should be removed as soon as possible before it goes to seed. Reed canary grass and blackberry are also present.   | White sweet clover   |
| <b>Fencing</b>             | No change noted  | One post on F St. was leaning slightly, but overall looks good   | No change noted  | No change noted  |
| <b>Plantings</b>           | Most recent plantings are not doing particularly well.   | No change noted  | No change noted  | No recent plantings  |
| <b>Flora</b>               | There are a couple of volunteer alder in the center of the square marsh. Some of the willows are showing signs of insect damage.                                     | Vegetation is generally looking good with winter dormancy. Some enhancement of the bare areas may be considered in the fall. | Vegetation appears healthy with willows flourishing despite some borer impact. Alder, cottonwood, conifers, rushes, saltgrass and pickleweed all doing particularly well. Some of the madrones have black spotty leaves. | Some tent caterpillars are present. Overall plants are doing well with some drought stress noted.  |
| <b>Fauna</b>               | None noted   | Small avian species, sea gulls, geese, crow and rabbits  | Songbirds  | Great blue heron, crows and crickets   |
| <b>Photo-documentation</b> | Not taken  | Taken  | Not taken  | Taken  |

Table 7  
ESP Site Record

ESP Site Record:  
Middle Waterway, Simpson

| Observational Categories   | 11/28/12 (CHB)  | 2/14/13 (City)   | 5/31/13 (CHB)  | 8/22/13 (City)   |
|----------------------------|---|--|--|--|
| <b>Human Impacts</b>       | None noted  | A transient was present on site under tree near S. 11th St. The authorities have been notified. No trash was noted.  | Minor trash  | A social trail is present in the upper intertidal area due to a transient camp found on the peninsula between this site and the Middle Waterway Tideflat site. Another camp area is located near the corner of 11th and Middle Waterway streets. Some trash associated with these camp areas is present. |
| <b>Erosion</b>             | None noted  | High winter tide shifted LWD and caused some erosion in areas near mid-site that had not been affected before  | A small section of the berm near the north end is being undercut and should be watched   | No change noted  |
| <b>Weeds</b>               | Common tansy was noted near 11th Street, and blackberry and some ivy were found at the north end around the point.  | No new species were noted  | Poison hemlock is present along with curled dock, blackberry and at least one white sweet clover plant   | Reed canary grass is present along East 11th St.   |
| <b>Fencing</b>             | Not applicable  | Not applicable   | Not applicable   | Not applicable   |
| <b>Plantings</b>           | No change noted   | Recent plantings were noted as doing well  | No change noted  | Recent plantings are continuing to do well   |
| <b>Flora</b>               | Some insect damage to the willows was noted. Oregon grape, Douglas fir, baldhip rose, snowberry and madrone all appear healthy. The pickleweed and salt grass are doing well as are the sedges at the south end. Dune grass is continuing to spread. One dead shorepine was noted near 11th St. | Plants are coming out of winter dormancy and showing some signs of spring. Spacing of plants looks good so additional plantings are not needed at this time. | Some of the madrones have black spotty leaves. Many of the willows show signs of damage from the willow borers. Roses, ocean spray, maple, cottonwood, kinnickinick, lupine, Douglas fir, pickleweed, saltgrass, plantain and dune grass are all doing notably well. | All plants appear to be doing well with some drought stress noted. Some dri-water has been installed.  |
| <b>Fauna</b>               | Sand pipers, a green-winged teal and signs of rabbit presence   | Small avian species, seagulls and geese  | Killdeer, Great blue heron, goldfinch and a rabbit   | Great blue heron and cricket   |
| <b>Photo-documentation</b> | Not taken   | Taken  | None taken   | Taken  |

Table 8  
ESP Site Record

ESP Site Record:  
Olympic View, City/DNR

| Observational Categories   | 11/28/12 (CHB)  | 2/15/13 (City)  | 5/31/13 (CHB)   | 8/22/13 (City)  |
|----------------------------|---|---|---|---|
| <b>Human Impacts</b>       | A time lapse camera has been installed by DNR on a large log in the marsh facing the marsh opening. Minor trash is present.   | Minor trash associated with the high tide line  | None noted  | Minor trash associated with the high tide line  |
| <b>Erosion</b>             | No change noted. Erosion behind the iron bulkhead, on the outer edge, and under the building are continuing. The opening to the marsh is still quite small and the berm of sand and rock to the east continues to grow. | Erosion along the outer shoreline continues. There is root exposure with some willows completely uprooted. Some areas on the berm were almost breached by the high winter tide. Significant push of gravels has effectively cut off the marsh entrance. | Tidal forces continue to undercut the outer edge of the triangle portion of the site, exposing willow roots   | Erosion is continuing on the outer edge and near willows. Opening however is effectively closed.  |
| <b>Weeds</b>               | No new species noted  | No new species noted  | Curled dock was noted along with potentially some tansy ragwort   | Mustard, pepperweed and St. John's wort   |
| <b>Fencing</b>             | No change noted   | No change noted   | No change noted   | No change noted   |
| <b>Plantings</b>           | No change noted - plants near the gate are continuing to do well.   | Plants are in fair condition  | Willows, ninebark and roses are all doing well. Fireweed is coming in along with American winter cress. Fireweed may require thinning so that it doesn't out-compete the planted species. | Recent plantings near the fenceline/gate are doing well but needs invasive removal  |
| <b>Flora</b>               | Some rabbit damage was noted but otherwise most vegetation appears healthy.   | Plants are coming out of winter dormancy. Some of the roses have been cut by rabbits and other species. Some roses have black spot.   | Brass buttons and gumweed are volunteering. Roses, willow and Oregon grape were noted as doing well. A madrone near the boardwalk is showing black, spotty leaves.                        | Algae is present on the standing water in the marsh. Some drought stress was noted. There is some red goosefoot growing on the outer shoreline. A few plants are present in the marsh including potentilla, pickleweed, atriplex, brass buttons and salt grass. |
| <b>Fauna</b>               | None noted  | Small avian species, geese and ducks  | Geese, killdeer and rabbit  | Geese, Caspian terns, crows, rabbit and raccoon   |
| <b>Photo-documentation</b> | Not taken   | Taken   | Not taken   | Taken   |

Table 9  
ESP Site Record

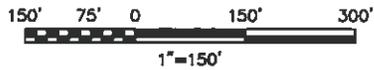
ESP Site Record:  
Tahoma Salt Marsh

| Observational Categories   | 11/28/12 (CHB)  | 2/13/13 (City)   | 5/31/13 (CHB)   | 8/20/13 (City)  |
|----------------------------|---|--|---|---|
| <b>Human Impacts</b>       | Minor trash   | Some increase in site usage is evident since the opening of the adjacent Chinese Reconciliation Park, mostly cross-site trails in the riparian area, but no disturbance of the marsh at this time. Only minor trash is present.                | None noted  | Many social trails are present. Minor trash is also present.  |
| <b>Erosion</b>             | At the southeast bank some of the willows have exposed roots  | Some minor erosion associated with the high winter tide was noted  | No change noted   | No significant erosion was observed.  |
| <b>Weeds</b>               | No new species noted  | Reed canary grass is still persistent, but there is minimal presence of other invasives  | Pepperweed was noted on the outer edge nearest the water, as were thistles and blackberry. Reed canary grass is present at both the east and west ends of the site. Tansy ragwort was noted in 3 places along the berm near where the Douglas firs were recently planted. There is some blackberry along the south edge nearest the road. | Reed canary grass, thistle, and a few blackberry  |
| <b>Fencing</b>             | No change noted   | No change noted  | No change noted   | No change noted   |
| <b>Plantings</b>           | No change noted   | No change noted  | No change noted   | Recently planted Douglas fir are all doing well   |
| <b>Flora</b>               | One dead shore pine was found at the south end by the chain link fence. Some insect damage to the willows was noted. Other vegetation appears healthy, including Douglas fir, snowberry, ocean spray, shore pine, spruce and cottonwood. Marsh species have died back for winter, but appear healthy. | Much growth has been realized in the last 18 months. Some large firs will be planted to fill in some bare spots. Some shredding of bark was noted - potentially by deer. Approximately half of the willows have experienced some borer damage. | Ocean spray, Oregon grape, nine bark, black twinberry, red-flowering currant, pickleweed, salt grass and gumweed were some of the many plants noted as doing well at the site. Some of the Douglas firs appear partially dead but also have new growth. Some insect damage was noted on one alder.  | Oregon grape is continuing to spread very nicely and the cottonwood were noted as doing well. Fleshy jaumea was noted in the marsh. Some drought stress was observed. |
| <b>Fauna</b>               | Golden-eyed barrows were identified offshore and hummingbirds   | Small avian species, geese, pigeons, rabbit and duck   | Pine grosbeak, a hummingbird and geese  | Cricket and dog evidence  |
| <b>Photo-documentation</b> | Not taken   | Taken  | Not taken   | Taken   |

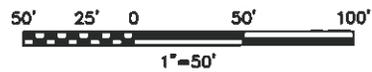
Table 10  
ESP Site Record

ESP Site Record:  
Swan Creek

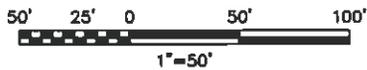
| Observational Categories   | 11/28/12 (CHB)   | 2/13/13 (City)  | 5/31/13 (CHB)   | 8/22/13 (City)   |
|----------------------------|--|---|---|--|
| <b>Human Impacts</b>       | Some of the small trees/shrubs had orange flagging tape around them. The creek was running high and the wooden plank was missing so the island was inaccessible.                     | Cell tower still does not appear to have cells at the top. The chain link fence was detached and tower was accessible. With the exception of the debris from the adjacent site, only minor trash was present. | None noted  | The City mulched the trail leading to the informational sign.  |
| <b>Erosion</b>             | None noted   | None noted  | None noted  | No new erosion noted   |
| <b>Weeds</b>               | No new species noted   | Reed canary grass on the island was noted   | Policeman's helmet and Herb Robert were found along the creek. Reed canary grass is present throughout the site. There is common tansy in several places and some blackberry, vetch and Scot's broom noted. | Blackberry, reed canary grass, ivy and policeman's helmet  |
| <b>Fencing</b>             | No change noted  | Still needs repair  | No change noted   | No change noted. Chain still missing and some bollards are down.   |
| <b>Plantings</b>           | The small cedars that were recently planted by the WCC did not survive   | Recent plantings on the island are doing well but must be watered this summer to give the best chance of survival   | A couple of the small conifers have not survived  | Overall recent plantings are doing well.   |
| <b>Flora</b>               | A couple of large trees were down across the creek, possibly from beaver activity. There were also several large limbs down near the road. At least one had beaver marks on the end. | Plants are all filling in well. Some beaver damage was noted. There was some fungus noted on a large madrone near photo point 3.  | Oregon grape, rose, nine bark, willow, alder and elderberry were noted as doing well. There is one dead cedar and a couple of the madrones have black, spotty leaves along with several of the cottonwood.  | Overall site is established and doing very well. Some snowberry at the north end appear to have been defoliated by bugs or a fungus. Minor beaver damage was observed. |
| <b>Fauna</b>               | Salmon, mallards, widgeons and hood mergansers   | Small avian species, ducks, chickadee, great blue heron and beaver  | Ducks with babies, and signs of beaver presence   | Beaver, snakes, spiders, kingfisher, ducks and small avian species   |
| <b>Photo-documentation</b> | Not Taken  | Taken   | Not taken   | Taken  |



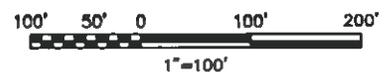
YOWKWALA



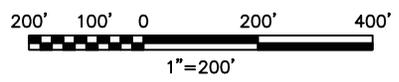
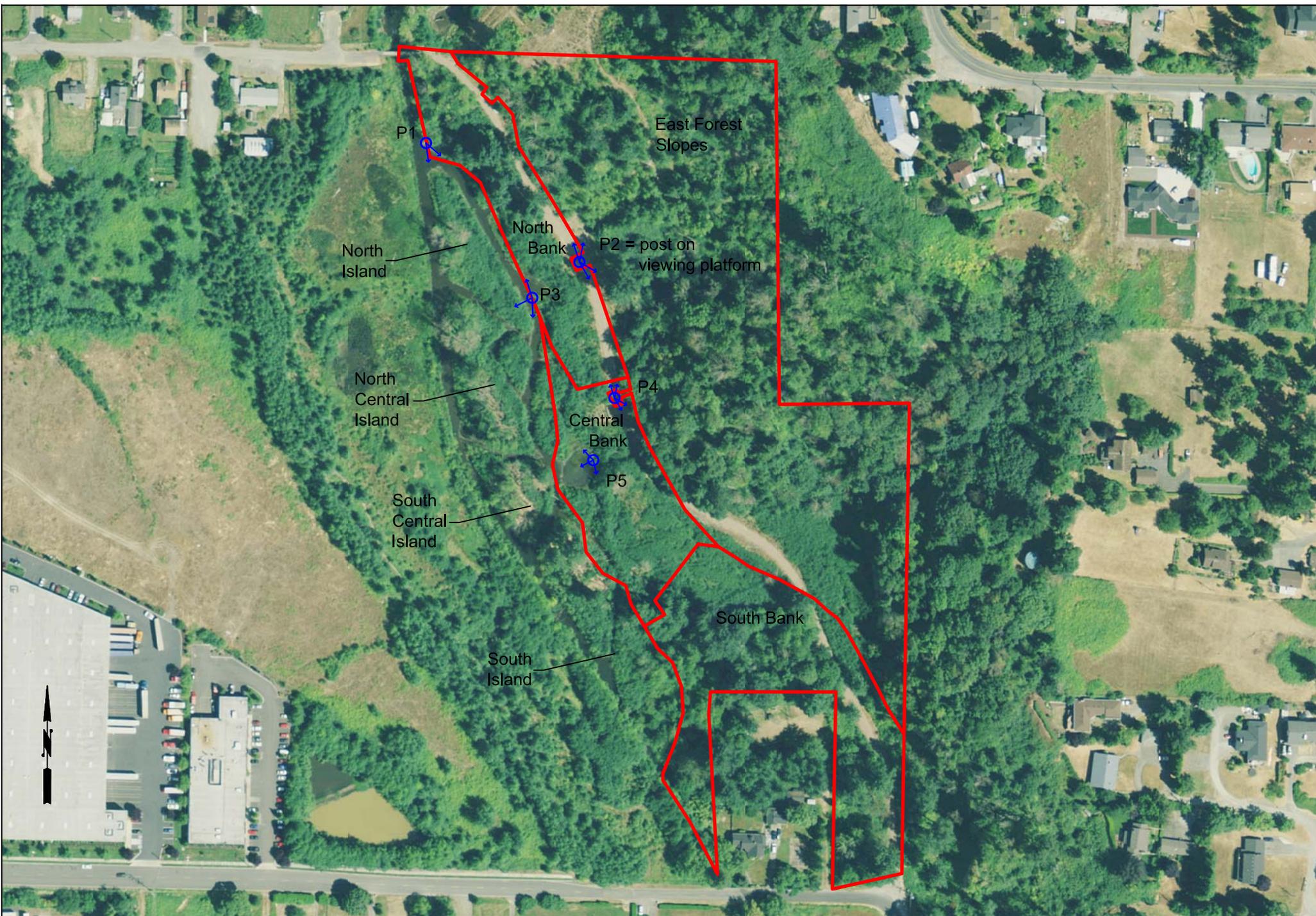
# SKOOKUM WULGE



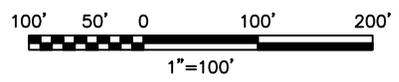
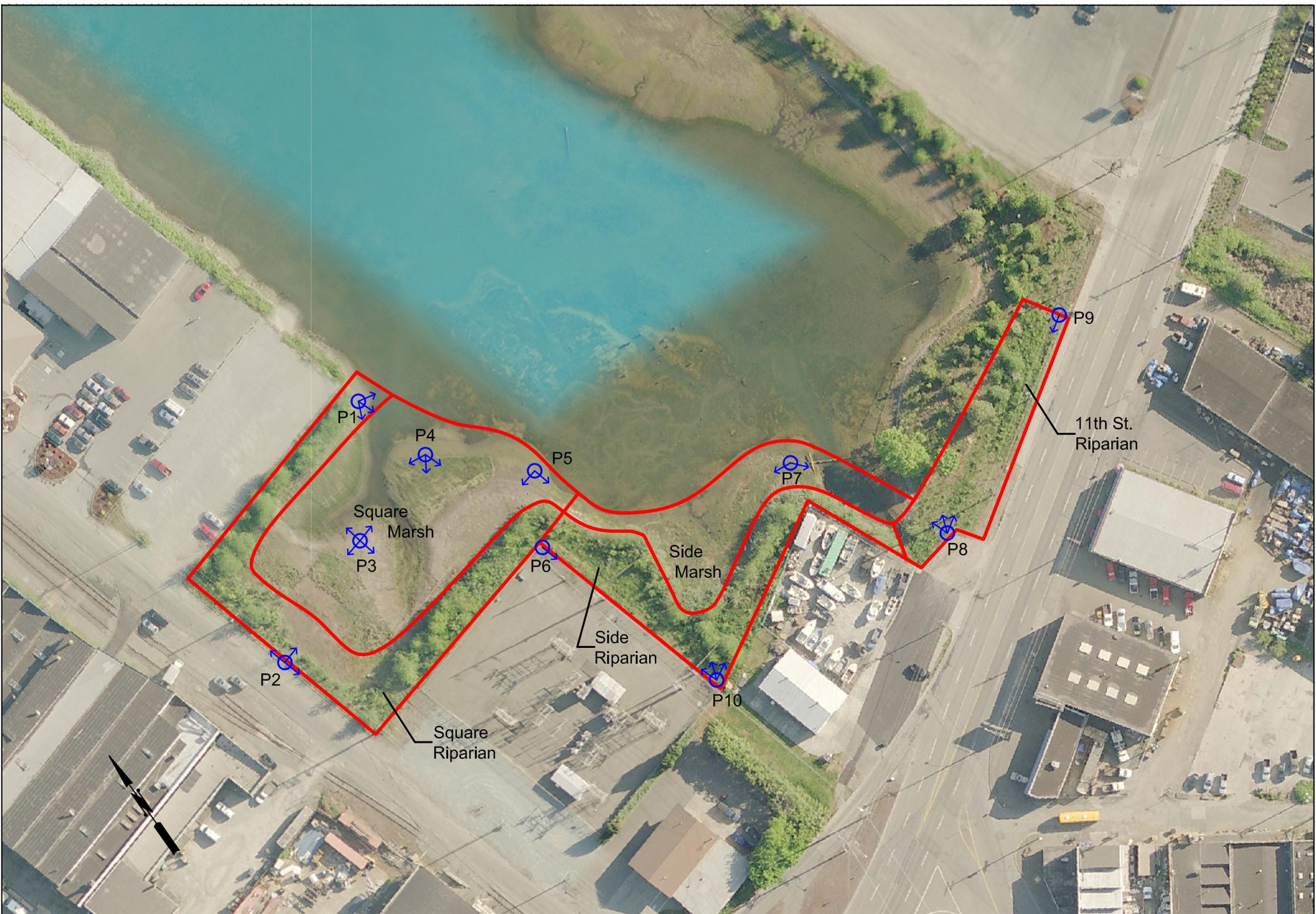
# SQUALLY BEACH



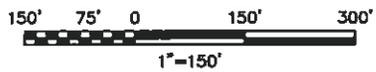
# MOWITCH - HEAD OF HYLEBOS



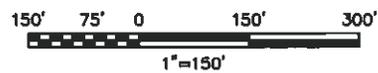
# JORDAN/LOWER HYLEBOS MARSH



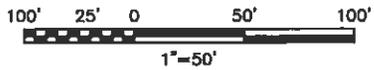
# MIDDLE WATERWAY, CITY



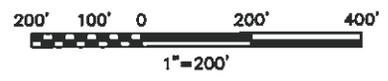
# MIDDLE WATERWAY, SIMPSON



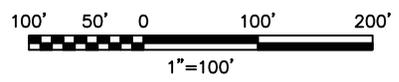
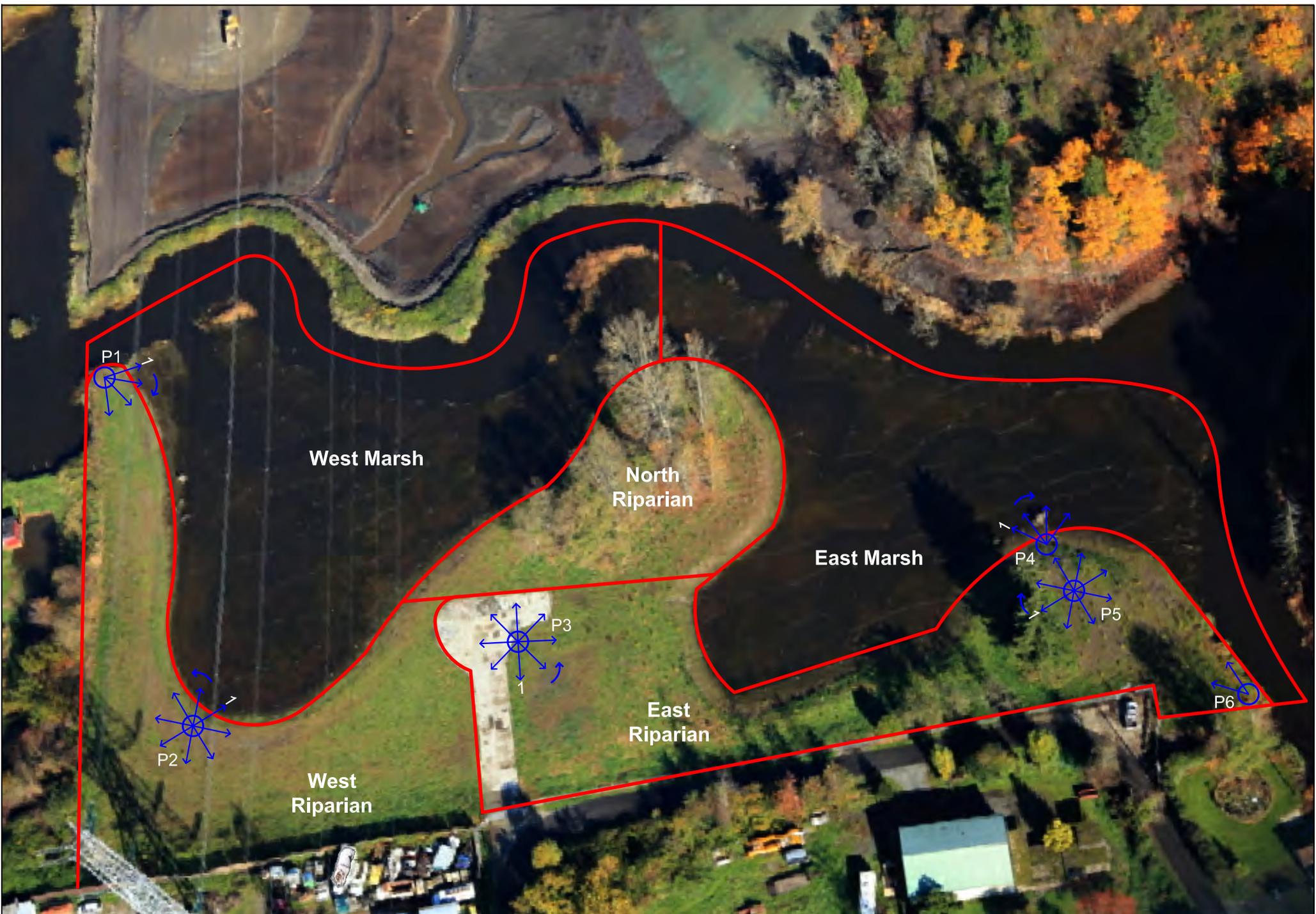
# OLYMPIC VIEW, CITY & WDNR



# TAHOMA SALT MARSH



# SWAN CREEK



**HAUFF**

