

APPENDIX 7
PRELIMINARY / INTERIM VEGETATION RESTORATION / PLANTING PLAN

The Idaho Club Marina Joint Application 2024

SUMMARY

The information herein is within this planting plan detail is a general review and discussion of vegetation restoration planting related to the attached Revegetation and Restoration Plan which was submitted for this site and under a similar, albeit much greater impact development plan. The original overall plan and goals are still valid and useful to define the overall guidance of how the site is proposed to be restored and revegetated during, and following, project construction activities.

The goal of the revegetation planting and riparian restoration work is to:

- Provide significant well vegetated setbacks from development;
- Create overland flow filtration and infiltration capacity where there is none now;
- Enhance native vegetation along the creeks and the shoreline outside of the marina docks;
- Retain and restore natural vegetation cover in common and setback areas.

An updated Revegetation and Restoration Plan is being developed as agency discussion and reviews and comments occur. That update will address and incorporate:

1. The updated proposed site plans,
2. The River Design Group Planting Plans
3. Past plans that had been approved twice for permits on this location,
4. Final planting cover recommendations developed during the Section 402 NPDES Permit Storm Water Pollution Prevention Plan.

OVERALL PLANTING APPROACH

- Specific locations and quantities of plants will be defined by the conditions found on site. Some areas where there is abundant vegetation, additional vegetation will be limited to restoration of the native grasses and shrubs. Areas that are without vegetation or overrun with invasive species will be replanted entirely and at a high density.
- The term “density averaged” means that plants may be shown on the plans at a more regular interval than what will be planted. Generally, it is more desirable to cluster 3 to 5 plants of the same species in a given area, replicating distribution patterns of native shrub growth patterns. Locations where clumps of shrubs will create a more natural condition than regular planting density will be determined on site throughout the planting implementation.
- Non-native and invasive plant species will be removed physically for the shrubs or by use of chemical means for the grasses and weeds. Weed and grass eradication will not include the use of Roundup™. No spray will be allowed within 20 feet of the creek or other surface waters. All invasive species within that area will be removed by hand.
- Overall plant locations will be staked and labeled on site for the planting crews.
- Plants will be conservation grade or better, from a local / regional nursery with standard guarantees of plant viability.
- Plants must meet minimum container size criteria for each species.

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- Container stock must be healthy, vigorous, with healthy roots & not root-bound, disease & insect free and of normal growth habit.
- The planting holes shall be 1.5 times the width of the plant container and at least 2 inches deeper than the deepest roots of the plant.
- All nursery plants will be thoroughly watered at the time of planting, and then again prior to the planting crew leaving the site after all plants have been installed. The contractor will be responsible for bringing healthy plant stock to the site and maintaining as appropriate until planted. The owner will be responsible for maintaining the viability and protection of the riparian setback restoration areas after planting.

MONITORING AND SUCCESS CRITERIA

- The restoration areas will be protected from entry by equipment by the installation of bright orange safety / sediment fence whenever excavation or landscaping equipment is being used during the construction phases of this project.
- The restoration setback area will be watered as needed throughout the establishment period (Approx 2 years). This watering will be limited and graduated to encourage the plants to establish and survive without long-term irrigation needs.
- Plantings will be monitored for three years to ensure a survival / establishment rate of 80 percent with no individual area larger than 150 square feet being allowed to remain with no vegetative cover. Re-seeding / planting will occur as needed to achieve this level of success.

PROTECTION OF THE BUFFERS AND SETBACKS

All of the areas within the 40-foot zone from the ordinary high water line will have a protection easement with The Idaho Club such that prior to vegetation removal or replacement by any entity, the planning plan shall be reviewed to ensure compliance with the overall project vegetation restoration and management goals.

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RIPARIAN VEGETATION RESTORATION / PLANTING PLAN

PROJECT NAME: Idaho Club Lakeside
USACE Reference # 2007-1218-C01
IDL Reference # L-96-S-602A

LOCATION: Located in portions of: Secs. 16 & 21, T57N, R1E; Boise Meridian;
Bonner Co.; ID Approximate latitude/longitude is N 48°17' by W
116°21'

FOR: Pend Oreille Bonner Development, LLC (dba The Idaho Club)
Attn: Chuck Reeves
151 Clubhouse Way
Sandpoint, ID 83864

BY: Pierre Bordenave, Registered Professional Soil Scientist, #054
InterMountain Resources
101 North Fourth Avenue, Suite 203 / P.O. Box 1724
Sandpoint, ID 83864

DATE: 25 February 2008

EXECUTIVE SUMMARY

The information within this planting plan detail is to clarify and expand upon what has been submitted, and committed to, by the Pend Oreille Bonner Development, LLC for their Idaho Club Waterfront Community project.

Within this plan is a clarification of the existing degraded vegetation conditions of both the riparian edge of the streams and waterway and the overall area of the former trailer park.

The goal of this vegetation planting and riparian restoration work is to:

- Provide significant well vegetated setbacks from development where there are none now;
- Create overland flow filtration and infiltration capacity where there is none now;
- Enhance native vegetation along the creeks and the shoreline outside of the marina basin;
- Retain and restore natural vegetation cover on the setback areas.

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Plant specifications, planting details, plan views and a typical cross section are included to define the areas and extent of this plan.

EXISTING CONDITIONS

As was described in the project application documents, the existing condition of riparian edge of the **North Branch** of Trestle Creek is highly degraded with only minimal natural riparian edge cover. The area within the proposed setback from this branch is dominated by lawn grasses and weeds, with various shrub and tree clumps and individual trees (black cottonwood and western red cedar) scattered throughout the area.



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Photos of North Branch Trestle Creek taken in October 2007

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The **Main Branch** of Trestle Creek has been altered significantly over the years to accommodate the placement of mobile homes / trailers and campground user access to the creek. Significant areas had much of the native riparian edge vegetation removed to allow this access.



Location on main branch of Trestle Creek where the North Branch is proposed to be diverted back to its historic location (presently a high flow discharge channel).



Picnic lawn area along main branch of Trestle Creek to be restored.

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Altered riparian areas along Trestle Creek to provide camper access and locations for trailers. All of these areas will be restored per the riparian plan with mature native trees and shrubs retained.

Although some portions of the **Main Branch** have mature, and in some locations adequate riparian cover, the planting plan will enhance the riparian edge cover and diversity, as well as the adjacent area identified as the non-build "setback," particularly at the mouth of the main branch out to the existing breakwater point.



All of the trees and mature shrubs along the creek will remain. Additional shrubs and trees will be added to areas where needed to provide higher density cover and reduce access.

(Photos Taken in October 2007)

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The **Lakeshore** riparian edge and existing boat basin is highly degraded throughout the area of the trailer park / campground. Other than in the last year, while this project was being designed and the removal of most of the structures along the creek was completed, the entire area had been regularly mowed, and brush cut. Photo documentation around the time of purchase of this property indicates generally invasive grass shorelines with some locations of shrub clumps and mature and juvenile trees throughout. The overall cover was defined as approximately 60% sparse grasses and forbs; 20% overstory tree cover; and 20% small to medium shrubs.



Current conditions of the shoreline within the existing boat basin.

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Existing outlet of the North Branch of Trestle Creek into current boat basin.



This is the point or natural breakwater between the outlet of the Main Branch of Trestle Creek and the existing boat basin.

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The above pictures show the general conditions of the lake shoreline adjacent to the boat basin.

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PLANTING PLAN SPECIFICATIONS FOR STREAM SETBACK AND RIPARIAN EDGE RESTORATION – TRESTLE CREEK MAIN AND NORTH BRANCH

Plant Lists and Planting Details

ZONES	SPECIES	VEGETATION DENSITY OR COVER NOTES
20 ft wide transition buffer strip furthest from the creek	60% Turf Type Tall Fescue (<i>Poa trivialis</i> ; <i>Festuca arundinacea</i>) 30% Chewings Fescue (<i>Festuca rubra commutata</i>) 10% Creeping Fescue (<i>Festuca rubra</i>)	Relatively dense cover maintained by watering and cutting to 6 inches Location of some of the storm water treatment and infiltration swales (see vegetation spec for SW swales below.)
Central Setback native fescue zone	Idaho Fescue (<i>Festuca idahoensis</i>) Chewings Fescue (<i>Festuca rubra commutata</i>) Sheep fescue (<i>Festuca ovina</i>) Wild Rose (<i>Rosa palustris</i> ; Snowberry (<i>Symphoricarpos albus</i>) Oceanspray (<i>Holodiscus discolor</i>) Vine Maple (<i>Acer circinatum</i>) Douglas Fir (<i>Pseudotsuga menziesii</i>) Ponderosa Pine (<i>Pinus ponderosa</i>)	Grasses with an open cover density (60%) Vegetation fill to increase the native shrub coverage to approximately 1/150ft ² (Density Averaged)
Riparian and Water's Edge	Planting Zone A Red Osier Dogwood (<i>Cornus stolonifera</i>) Shrub Willow Sp. (<i>Salix</i> sp. V. <i>ligulifolia</i> ; <i>hookeriana</i> ; <i>lasiandra</i> ; <i>scouleriana</i> ; <i>sitchensis</i>) Black Hawthorne (<i>Crataegus douglasii</i>) Planting Zone B Black Cottonwood (<i>Populus balsamifera</i> <i>trichocarpa</i>) Douglas Spirea (<i>Spirea douglasii</i>) Wild Rose / Swamp Rose (<i>Rosa palustris</i> ; <i>R. pisocarpa</i>) Birch (<i>Betula papyrifera</i>) Western Red Cedar (<i>Thuja plicata</i>)	Vegetation fill to increase the native edge shrub cover to 80% or approximately 1/10ft ² (Density Averaged)

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ZONES	SPECIES	VEGETATION DENSITY OR COVER NOTES
Turf Type Tall Fescue Buffer throughout the project	60% Turf Type Tall Fescue (<i>Poa trivialis</i> ; <i>Festuca arundinacea</i>) 30% Chewings Fescue (<i>Festuca rubra commutata</i>) 10% Creeping Red Fescue (<i>Festuca rubra</i>)	Relatively dense cover maintained by watering and cutting to 6 inches Location of some of the storm water treatment and infiltration swales (see vegetation spec for SW swales below.)
Storm Water filtration and infiltration areas / swales	Red Top (<i>Agrostis alba</i>) Creeping red Fescue (<i>Festuca rubra</i>) Creeping Foxtail (<i>Alopercurus arundinaceus</i>) Douglas Spirea (<i>Spirea douglasii</i>)	Dense cover of non-maintained vegetation Irrigated the first year for establishment and during summer months to maintain viability.

ZONE DESCRIPTIONS

Tall Turf Type Fescue Buffers

These areas are maintained by watering, and some mowing to maintain a healthy growth density and vigorous ongoing growth to provide a runoff buffer and absorption area between maintained lawns and landscaping and either the setback naturalized areas or any surface water areas.

Some of the storm water treatment swales will be located within these buffer areas. Existing trees and native shrubs within this zone will be retained. Only the native shrubs identified in this plan will be allowed to be planted within this buffer area.

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Storm Water Filtration and Infiltration Areas

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These infiltration areas will be installed throughout the project as large, irregular swales sized to control and hold the hundred year storm from the proposed impervious areas of the project. Final configuration and location of the swales will be laid out and constructed to avoid the loss of mature trees and will be restored within the same guidelines of the setback and riparian restoration plan.

Creek Riparian Area

The existing stream edge along Trestle Creek (both Main and North Branch) will be restored to the natural density for this stream system of approximately 80% with an average cover of 1 mature shrub per 10 Square feet within the 10 foot planting zone. Density will be adjusted to match the

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existing conditions so that an increased number of plants will be concentrated in areas that do not now have a natural cover and fewer plants will be installed where the cover already meets or exceeds the 80% cover.

This cover will be carried for the entire length of the creek within the property and will extend to the existing breakwater point between the boat basin and the creek mouth. All existing natural vegetation and trees will be retained within this area.

Native Fescue Setback Areas

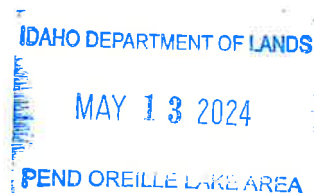
These areas will serve as the primary riparian setback for Trestle Creek and will be restored to the naturalized conditions that would be found in this area prior to the trailer park and general recreational area clearing.

Although this is identified as a "native fescue" zone, the existing trees and native shrubs throughout these areas will be retained. Additional trees and shrubs will be added to increase a shrub and over story density average of 1 mature tree or shrub per 150ft². The existing sparse cover of non native grasses and invasive weeds will be replaced with the identified native fescues.

All Areas

When the final site specific planting plan and staking occurs, IMR will review the proposed planting with the Idaho Fish and Game as well as other interested agencies to allow an incorporation of additions and changes to the proposed planting plan.

Additional plants that match the existing native plant conditions for this site may be added to the planting plan as final construction layout and restoration occurs.



OVERALL PLANTING DETAILS

- Specific locations and quantities of plants will be defined by the conditions found on site. Some areas where there is abundant vegetation, additional vegetation will be limited to restoration of the native grasses and shrubs. Areas that are without vegetation or overrun with invasive species will be replanted entirely and at a high density.
- The term "density averaged" means that plants may be shown on the plans at a more regular interval than what will be planted. Generally, it is more desirable to cluster 3 to 5 plants of the same species in a given area, replicating distribution patterns of upstream native shrubs' growth patterns. Locations where clumps of shrubs will create a more natural condition than regular planting density will be determined on site by InterMountain Resources throughout the planting implementation.
- Non-native and invasive plant species will be removed physically for the shrubs or by use of chemical means for the grasses and weeds. Weed and grass eradication will be by the select and limited use of Roundup™ and only in small quantities applied with a one-person hand sprayer. No spray will be allowed within 20 feet of the creek or other surface waters. All invasive species within that area will be removed by hand.
- Overall plant locations will be staked and labeled on site by IMR for the planting crews.
- Plants will be conservation grade or better, from a local / regional nursery with standard guarantees of plant viability.
- Plants must meet minimum container size criteria for each species.
- Container stock must be healthy, vigorous, with healthy roots & not root-bound, disease & insect free and of normal growth habit.
- The planting holes shall be 1.5 times the width of the plant container and at least 2 inches deeper than the deepest roots of the plant.
- All nursery plants will be thoroughly watered at the time of planting, and then again prior to the planting crew leaving the site after all plants have been installed. The contractor will be responsible for bringing healthy plant stock to the site and maintaining as appropriate until planted. The owner will be responsible for maintaining the viability and protection of the riparian setback restoration areas after planting.

Monitoring and Success Criteria

- The restoration area will be protected from entry by equipment by the installation of bright orange safety / sediment fence whenever excavation or landscaping equipment is being used during the construction phases of this project.
- The restoration setback area will be watered as needed throughout the establishment period (Approx 2 years). This watering will be limited and graduated to encourage the plants to establish and survive without long-term irrigation needs.
- Plantings will be monitored for three years to ensure a survival / establishment rate of 80 percent with no individual area larger than 150 square feet being allowed to remain with no vegetative cover. Re-seeding and/or planting will occur each spring as needed to achieve this level of success.

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