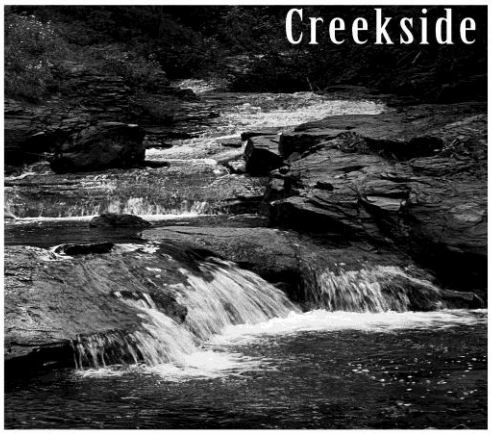

Creekside Angling & Environmental

- Water & Land Resource Consulting
- Stream Restoration, Wetlands Delineation, Permitting, Planning

Chris Kruthaupt M.S.
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March 16, 2015

To: Ms. Carrie Sheata
From: Chris Kruthaupt
RE: Little Cimarron Wetland Enhancement Plan

There are three wetlands that were delineated on the Little Cimarron property that Lakeside on the Colorado intends to develop. Two of these wetlands, A and C, are located on a bench where the only suitable building envelopes exist on the south end of the property. Lakeside of Colorado has submitted a PCN for a NWP 29 for these two wetlands. The third wetland, B, is located slightly down slope and steps have been taken to avoid any impacts on this wetland. In order to further demonstrate their willingness to avoid and minimize, Lakeside on the Colorado has agreed to enhance wetland B.

The enhancement of wetland B will involve an excavation phase and a re-vegetation phase. When the work begins on the project the excavator will excavate a 15' x 15' enhancement space on the northwest corner of wetland B. (Figure 1). This excavation will remove the upland plants and soils below the inundation level. Excavation to the inundation level will ensure sufficient water for the newly transplanted wetland plant species. The excavation spoils will be hauled off to another upland storage site. Once the 245 ft^2 space is established the excavator will transplant soils and the associated wetland plant species from wetlands A and C. This will include Salix spp., Carex spp. and Calmagrostis spp. The enhancement will attempt to re-create the relative distribution pattern of those three dominant plant species. The herb stratum will have an equal proportion of Carex and Calmagrostis, while the shrub stratum will be dominated by Salix species. The transplant will take place when the plants are dormant outside of the typical growing season. This will help to ensure a successful enhancement effort.

A successful enhancement effort will be defined by the viability of the plant species after two growing seasons. The project will submit a yearly growing season photo summary that demonstrates the progress of the enhancement. The photo summary will be submitted for two years following the initial enhancement.

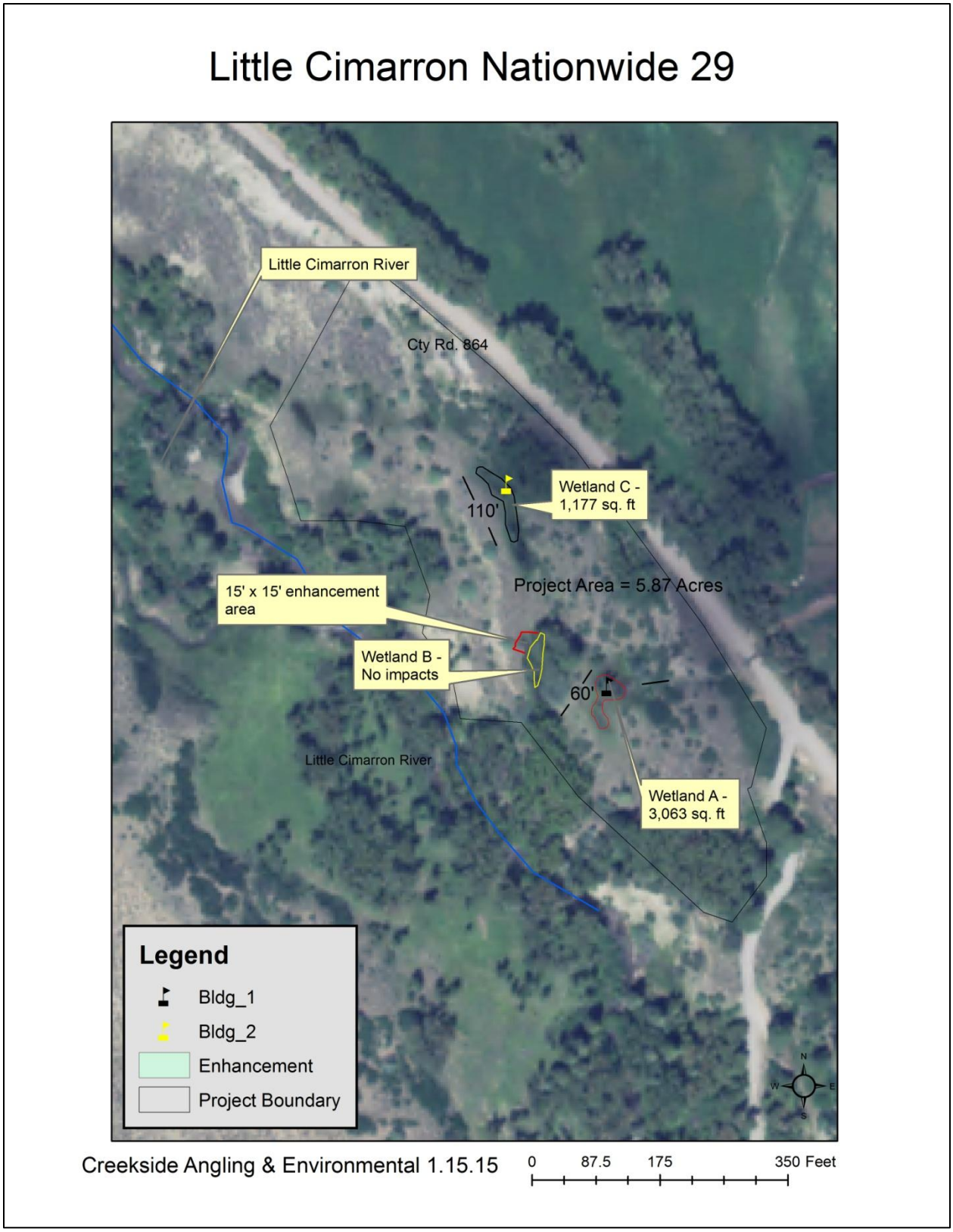

Figure 1 Aerial overlay showing the two impacted wetlands, A and C, and the enhancement area on wetland B.