



December 12, 2002

(b) (6)

U.S. Army Corp of Engineers
Utah Regulatory Section
533 West 2600 South, Suite 150
Bountiful, UT 84010

RE: Mark Walsh Property – 199550550

Dear (b) (6)

The following is a mitigation plan for the “after the fact” permit prepared by Mark Walsh. The total wetland impacts are 2,120 ft² created by landscaping berms and driveway. The wetlands impacted are palustrine emergent or wet meadow. Proposed for mitigation is the “in kind” creation of approximately 2,200 ft² or 0.05 acres of wet meadow.

The property is located in the Swiss Paradise Subdivision. The north 100 feet of his property has been identified as jurisdictional wetlands. The property is comprised of 0.97 acres of which 0.25 acres are jurisdictional wetlands.

Mitigation

Site Conditions

Currently the proposed mitigation site is comprised of grasses that could not be identified due to mowing. The soils are consistent with a mollisol order and have a matrix color of 10yr 2/1. Attached are three data forms to illustrate the on-site conditions of the proposed mitigation area. The soils mapped by the NRCS within the property are listed as Cudahy silt loam, cold variant, moderately deep water table. This is a poorly drained soil with the water table fluctuating between 20 and 36 inches. These soils form on benches and terraces over travertine bedrock. Travertine bedrock is formed from spring water deposits of calcium carbonate.

The adjacent property owner to the south utilizes his/her property for grazing and hay production. The neighbors to the east and west have planted shrubs as enhancement for their mitigation.

p 40 30 57.7729
" 27 52.4952

n 40 30 54.7783
#11 27 52.6002

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Goal

To create a self-sustaining depression wet meadow located near the southern property line to function as wildlife habitat (ex. songbirds and small mammals). This will be a continuation of the neighbor's enhancement mitigation. Currently these plantings are still within the sapling stage but seem to be healthy. Once well established the combination of shrubs and wet meadow will be beneficial to the wildlife that have lost habitat to agriculture and housing to the north and south. The proposed mitigation will help in creating a small wildlife corridor.

Methods

Grading

The proposed mitigation site will be graded using a rubber-tired backhoe. The site will be dug out approximately 16-24 inches to approximately the seasonal high water table. The center of the mitigation site will be deeper in the center than the edges as illustrated on the Typical Cross Section Map. The area will be leveled using handtools to create small furrows and vegetated immediately. The banks will be at approximately 2 to 1 slope.

Plantings

The mitigation site will be vegetated with 10 in³ cones planted every 24 in². A total of 1,100 cones will be planted. The center of the mitigation site will be planted with *Scirpus pallidus*; the next layer will be planted with *Agrostis stolonifera*; the next layer layer *Juncus balticus* (See attached maps). Each species will encroach into the other species layers depending on the hydrologic regime.

Plant List:

<u>Scientific Name</u>	<u>Common Name</u>	<u>Indicator Status</u>	<u>Number of Cones</u>
<i>Scirpus pallidus</i>	Cloaked Bulrush	OBL	300
<i>Agrostis stolonifera</i>	Redtop	FACW	400
<i>Juncus balticus</i>	Baltic Rush	FACW	400

Plant Supplier:

Aquatic and Wetland Company
9999 Weld County Road 25
Fort Lupton, Colorado 80621
800.886.9385

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Monitoring

The mitigation site will be monitored annually for approximately 5 years or until basal areal vegetation coverage is approximately 80%. The area will be monitored using the vegetation and hydrology criteria from the 1987 Corp of Engineers Routine Determination data forms. One cross section of 3 sampling points will be utilized to monitor the status of the mitigation site (See Attached Maps). Photographs will be taken yearly as illustrated on the following maps and of each sampling point. An annual monitoring report will be submitted in the fall including data forms and photographs. The mitigation site will be monitored in either the spring or early summer. Invasive plant species will be controlled by hand due to the small mitigation site.

If there are any questions please contact me at 435.645.9000 or hjencks@jackjohnson.com.

Sincerely,

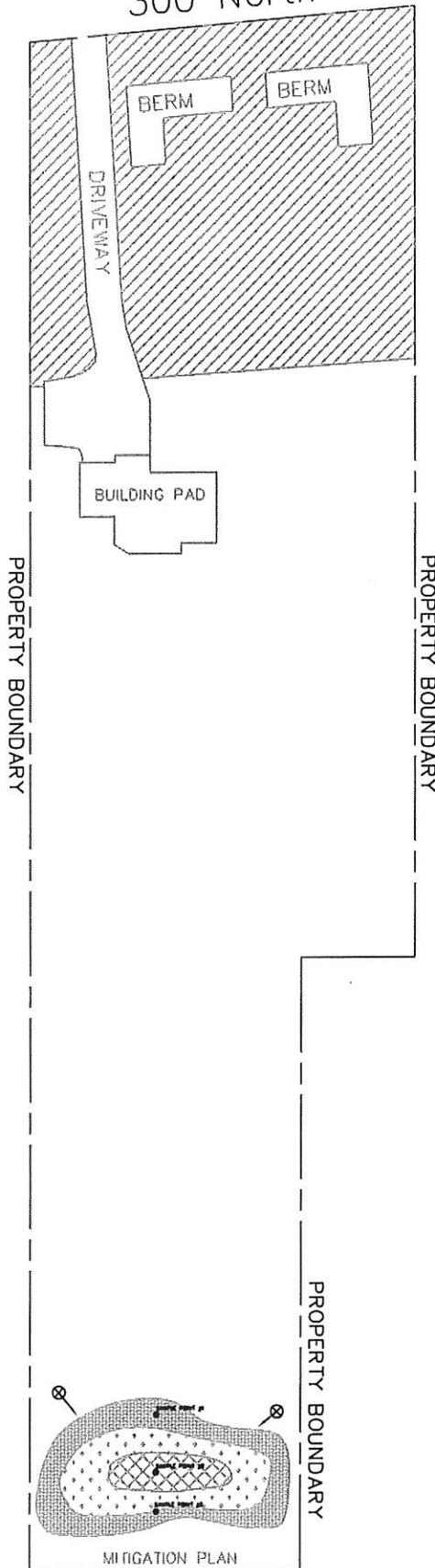


Hollis Jencks

:mt

Attachments

300 North



OWNER / APPLICANT

Mark Walsh
312 East 300 North
Midway, UT 84049

ENGINEER

Jack Johnson Company
1777 Sun Peak Drive
Park City, UT 84098

LEGEND

 -WETLANDS

**Mark Walsh Property
Mitigation Plan
SUMMIT COUNTY, UTAH**

NORTH

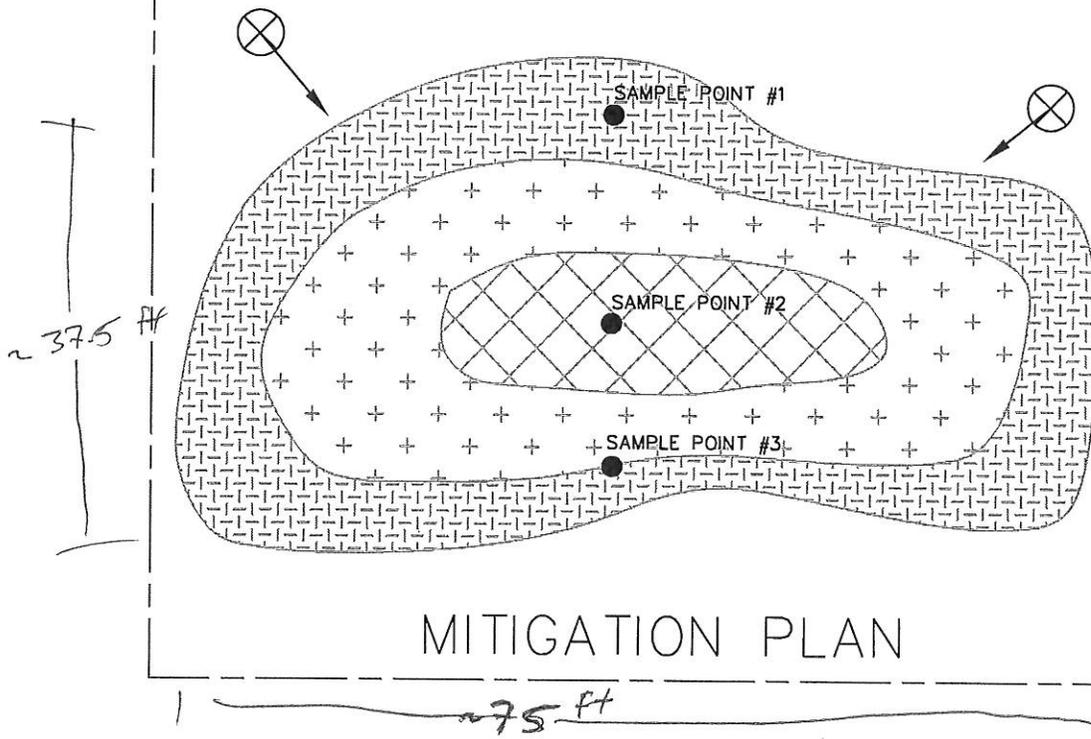


SCALE 1" = 50'

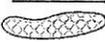
KEY
(12/12/02)

PROPERTY BOUNDARY

0.052 acre



OWNER / APPLICANT
 Mark Walsh
 312 East 300 North
 Midway, UT 84049

- LEGEND**
-  - *Scirpus microcarpus*
 -  - *Agrostis stolonifera*
 -  - *Juncus balticus*
 -  - MONITOR POINT
 -  - PHOTO POINT
 -  - PHOTO DIRECTION

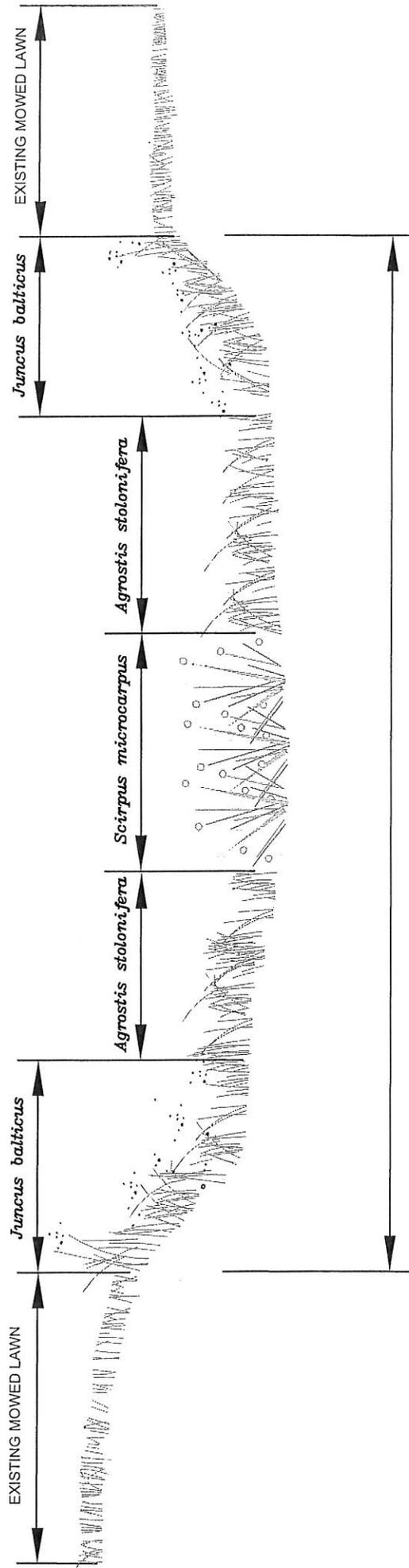
ENGINEER
 Jack Johnson Company
 1777 Sun Peak Drive
 Park City, UT 84098

Mark Walsh Property
 Mitigation Plan
 SUMMIT COUNTY, UTAH

NORTH



SCALE 1" = 15'



OWNER / APPLICANT
 Mark Walsh
 312 East 300 North
 Midway, UT 84049

ENGINEER
 Jack Johnson Company
 1777 Sun Peak Drive
 Park City, UT 84098

Mark Walsh Property
 Typical Wetland Cross Section
 SUMMIT COUNTY, UTAH



SCALE 1" = 15'