

Exhibit 1

Description of Infrastructure and Operation associated with Direct Delivery of Replacement Water to Snake River Farm

**Prepared for:
North Snake Ground Water District
and
Magic Valley Ground Water District**

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1.0 INTRODUCTION

A direct replacement water plan has been developed to offset the depletive effect of junior-priority ground water withdrawals on the Snake River Farm's (SRF) water rights. This plan includes the direct delivery of replacement water from existing wells on the Plain above SRF over the canyon rim and down to the SRF facility. A back-up plan for delivery of replacement water from spring rights leased from the Idaho Department of Fish and Game (IDF&G) is provided to supplement the over-the-rim delivery, if necessary. This report describes the conceptual design of the direct delivery and back-up plans.

2.0 DIRECT DELIVERY TO SNAKE RIVER FARM

Under this plan the North Snake and Magic Valley Ground Water Districts ("Districts") have secured the agreement of certain ground water right holders on the Eastern Snake River Plain immediately above SRF to convert their irrigation operations from ground water to surface water supply, to lease their ground water rights to the Districts and authorizing Transfer Applications to be filed with IDWR to change the points of diversion, place of use, period of use and nature of use as needed to enable these ground water rights to be used pursuant to the Districts Mitigation Plan at SRF. The existing wells will continue to pump ground water at their historical annual rates, but rather than applying that water to irrigated crop land will deliver it via a collection pipeline to SRF. The mitigation benefits to SRF will include this direct water delivery plus incidental recharge associated with delivery and use of surface water on the converted parcels.

The Districts have effected similar conversion of approximately 9300 acres of ground water-supplied parcels within their boundaries which have been functioning for several years. Mitigation credit for incidental recharge from these conversions has been approved by the IDWR Director. It is anticipated that this direct delivery and incidental recharge will provide a benefit to SRF in excess of the 1.99 cfs replacement water requirement imposed by the Director's Order of March 9, 2009, and up to as much as 3.0 cfs. It is anticipated that amounts in excess of the 1.99 cfs requirement will be delivered upon completion of the necessary construction in order to "over-mitigate" for such period as may be required by the Director to make up any shortfall resulting from prior years and during the construction.

A schematic of the proposed direct delivery system is shown in Exhibit 2. The wells and water rights subject to conversion are described in Exhibit 3. Authorized Places-of-Use (POU) of the water rights are also shown by shading on Exhibit 2. The wells for the participating water rights will pump their historical annual volumes on a continuous basis. Water will be collected in a pipeline network and delivered to a point on the canyon rim above SRF. The pipeline will then drop into the canyon to a pressure-reducing facility from whence it will be delivered via pipeline to a point in the hatchery complex designated by SRF. At that point it will be blended with diversions from the SRF spring outlet. Because the water so delivered comes from the same

source as feeds the SRF spring outlet, this blending will not materially affect the quality of water used in SRF operation.

It is anticipated that existing well pumps can be utilized for this direct delivery operation, since required instantaneous delivery rates from each well will be less than their historical values. This will also provide redundant delivery capacity in the event of maintenance or failure of any individual well pump. The Ground Water Districts will evaluate and replace well pumps as necessary to provide sufficient delivery rates and pressures to effect the operation.

The extent and alignment of the collection pipeline shown in Exhibit 2 may be adjusted based on more complete pumping records and more detailed design to address property boundaries and utility locations. Exhibit 4 summarizes the major physical components of the direct delivery plan and their estimated costs. This is a preliminary conceptual estimate of infrastructure requirements and does not include minor components and connections, such as those into SRF facilities. A more detailed design will be prepared upon authorization and direction by the IDWR to further pursue this plan.

The direct delivery plan would not impact any other water users within the local area as pumping will simply continue at historical annual rates. The use of replacement water delivered under this alternative is non-consumptive and, consequently, all water delivered to SRF will flow to Clear Lake and the Snake River. Detailed negotiation and coordination with affected non-participating landowners is in progress and is expected to result in the various conversion and lease agreements as well as such easements and rights-of-way as may be necessary to undertake and complete the project.

3.0 DELIVERY OF IDF&G WATER RIGHT NO: 36-4076 TO SNAKE RIVER FARM (BACK-UP ALTERNATIVE)

If for unanticipated reasons the direct delivery plan cannot provide at least the minimum replacement water requirement of 1.99 cfs required by the March 2009 Order, the Districts may pursue a supplemental plan using the water rights leased from IDF&G. The IDF&G owns and manages the Clear Lake Grade wetland mitigation site neighboring SRF to the east. The Districts entered a Lease Agreement on May 28, 2008, with the IDF&G for IDF&G's Decreed Water Right No. 36-4076 for the purpose of providing mitigation and replacement water to SRF.

The IDF&G currently receives water from at least four spring outlets on the north side of the Snake River Canyon near the Clear Lakes Grade, as shown in Exhibit 5. The supplemental replacement supply will be derived by capturing the discharge of the westernmost of these outlets in enclosed spring boxes and delivered via pipeline to a point designated by SRF where it will be blended with discharge from the SRF spring outlet. Enclosed collection and delivery will insure that no contaminants are introduced into the spring water. Since the IDF&G springs

emanate from a source common to the SRF spring outlet, the blending of these waters will not materially affect the quality of water used in SRF operation.

Replacement water will be provided to IDF&G from the Snake River as necessary to maintain wetlands function. This water would be pumped from the Snake River to the inlet of the IDF&G wetlands south of the highway, as shown in Exhibit 5.

Exhibit 6 summarizes the major components and estimated costs for this back-up plan. This is a preliminary conceptual estimate of infrastructure requirements and does not include power supply, connections to the SRF raceway inlet, and other minor components. A more detailed design will be prepared upon direction by the IDWR to further pursue this back-up plan.