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DEPARTMENT OF WATER RESOURCES

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### BEFORE THE DEPARTMENT OF WATER RESOURCES

### OF THE STATE OF IDAHO

IN THE MATTER OF THE PETITION DELIVERY CALL OF RANGEN, INC.'S WATER RIGHT NOS. 36-02551 & 36-7694 Docket No. CM-DC-2011-004

RANGEN, INC.'S MOTION IN LIMINE TO EXCLUDE TESTIMONY OF JOHN S. CHURCH AND REQUEST FOR HEARING

Petitioner Rangen, Inc. ("Rangen"), by and through its attorneys, hereby moves the Director of the Idaho Department of Water Resources ("Department" or "IDWR"), the hearing officer for the above-captioned matter, to enter an Order pursuant to IDAPA 37.01.01.600 prohibiting the Idaho Ground Water Appropriators, Inc. ("IGWA") from offering any testimony from Economist John S. Church at the hearing of this matter **RANGEN'S MOTION IN LIMINE TO EXCLUDE TESTIMONY OF JOHN S. CHURCH AND REQUEST FOR HEARING - 1**  because his opinions are irrelevant and inadmissible on constitutional or statutory grounds. Alternatively, Rangen requests that it be allowed to designate an economist to rebut Church's testimony. Rangen requests that a hearing on this Motion be conducted. As grounds, Rangen states the following:

### I. ISSUE PRESENTED

1. The issue to be decided is whether the testimony of Economist John S. Church should be excluded pursuant to IDAPA 37.01.01.600 ("Rule 600").

### II. LEGAL STANDARD

2. Rule 600 of IDWR's Rules of Procedure gives the Director the discretion to exclude evidence at a hearing. Rule 600 states in relevant part: "The presiding officer, with or without objection, may exclude evidence that is *irrelevant*, unduly repetitious, *inadmissible on constitutional or statutory grounds*, or on the basis of any evidentiary privilege provided by statute or recognized in the courts of Idaho." IDAPA 37.01.01.600 (emphasis added).

### III. ANALYSIS

3. IGWA recently disclosed that it intends to call John S. Church as an expert witness at the hearing of this matter. <u>See</u> IGWA's Expert Witness Disclosure dated June 27, 2012.

4. John S. Church works as an independent economic consultant. <u>See</u> Expert Report of John Church, ¶ 1 submitted to the Director in connection with a delivery call made by A & B Irrigation District, American Falls Reservoir District #2, Burley Irrigation District, Milner Irrigation District, Minidoka Irrigation District, North Side Canal Company, and

Twin Falls Canal Company (attached hereto as Exhibit 1 and hereinafter referred to as "Church Report").

5. Although Church's opinions in this case have not yet been disclosed, Church's economic work and opinions are well known to the Department and the parties. IGWA previously hired Church to serve as an expert in connection with a delivery call made by A & B Irrigation District, American Falls Reservoir District #2, Burley Irrigation District, Milner Irrigation District, Minidoka Irrigation District, North Side Canal Company, and Twin Falls Canal Company (hereinafter referred to as "Surface Water Coalition Call") and in connection with the delivery calls made by Clear Springs Foods, Inc. and Blue Lakes Trout Farm, Inc. (hereinafter referred to as "Clear Springs/Blue Lakes Call"). See p. 5, lines 11-18 of Deposition of John Church dated November 15, 2007 attached hereto as Exhibit 2 (hereinafter referred to "Church Depo.").

6. Church's role as an economist in the Surface Water Coalition Call and Clear Springs/Blue Lakes Call was to evaluate the economic impacts of the water calls upon the economy of Idaho and south central Idaho and provide testimony concerning those impacts. See p. 5, line 24 - p. 6, line 7 of Church Depo. See also ¶ 5 of Church Report.

7. IGWA took the position that Church's testimony was relevant to the delivery calls because a senior's water delivery call must be rejected pursuant to the "full economic development" provision of Idaho Code § 42-226 if curtailment would result in substantial economic harm. See p. 44 of Groundwater Users' Opening Brief submitted to Idaho Supreme Court in connection with Clear Springs/Blue Lakes Call (excerpts attached hereto as Exhibit 3).

8. Section 42-226 of the Idaho Code states in relevant part:

The traditional policy of the state of Idaho, requiring the water resources of this state to be devoted to beneficial use in reasonable amounts through appropriation, is affirmed with respect to the ground water resources of this state as said term is hereinafter defined and, while the doctrine of "first in time is first in right" is recognized, a reasonable exercise of this right shall not block *full economic development of underground water resources*.

I.C. § 42-226 (emphasis added).

9. IGWA argued in the Clear Springs/Blue Lakes Call that:

The Ground Water Act's stated policy goal of "full economic development" necessarily gives relevance to and requires the Director to consider the economic effect of curtailment when responding to delivery calls against groundwater rights. If curtailment will result in substantial economic harm, the senior's water delivery call must be rejected. I.C. § 42-226.

See p. 44 of Groundwater Users' Opening Brief submitted to Idaho Supreme Court in

connection with Clear Springs/Clear Lakes Call (excerpts attached hereto as Exhibit 3).

10. The Idaho Supreme Court rejected IGWA's interpretation of I.C. § 42-226 in

<u>Clear Springs Foods, Inc. v. Spackman</u>, 150 Idaho 790, 252 P.3d 71 (2011).

11. First, the Supreme Court made it clear that I.C. § 42-226 has no application in

delivery calls between senior spring users like Rangen and junior ground water users.

See In re Delivery Call of A&B Irrigation District, Docket Nos. 28403/38421/38422

(August 2, 2012), p. 12 (discussing holding of Clear Springs Foods, Inc. v. Spackman,

150 Idaho 790, 808, 252 P.3d 71, 89 (2011)).

### 12. The <u>Spackman</u> Court also held that:

The reference to "full economic development of underground water resources" [as used in I.C. § 42-226] does not mean that the groundwater appropriator who is producing the greater economic benefit or would suffer the greater economic loss is entitled to the use of the ground water when there is insufficient water for both the senior and junior appropriators. If that were the basis for allocating water in times of shortage, then water would be allocated among farmers based upon the market prices of their respective crops and their expected yields.

Spackman, 150 Idaho at 802, 252 P.3d at 83 (emphasis added).

13. The <u>Spackman</u> Court explained that the Idaho legislature enacted I.C. § 42-226 in
1951. 150 Idaho at 801, 252 P.3d at 82. At the time it was enacted, the statute read as follows:

It is hereby declared that the traditional policy of the state of Idaho, requiring the water resources of this state to be devoted to beneficial use in reasonable amounts through appropriation, is affirmed with respect to the ground water resources of this state as said term is hereinafter defined.

Id. (quoting I.C. § 42-226 as originally enacted).

14. In 1953, the Idaho legislature added the "full economic development" language to the end of the first sentence of § 42-226. <u>Id.</u> The language was added to change the Supreme Court's prior holding in <u>Noh v. Stoner</u>, 53 Idaho 26 P.2d 1112 (1933). <u>Spackman</u>, 150 Idaho at 83, 252 P.3d at 83. In <u>Noh</u>, the Supreme Court held that a prior appropriator of ground water was protected in his historic pumping level. <u>Id.</u> The <u>Spackman</u> Court explained that: "The 1953 amendment recognized that in order for there to be full economic development of underground water resources, a senior appropriator with a shallow well should not be able to block subsequent appropriators of groundwater. To prevent that from occurring, the senior appropriator is protected only 'in the maintenance of reasonable ground water pumping levels as may be established by the state reclamation engineer." <u>Id.</u> (quoting I.C. § 42-226).

15. The Supreme Court unequivocally held in <u>Spackman</u> that: "A delivery call cannot be denied on the ground that curtailment of junior appropriators would result in substantial economic harm." 150 Idaho at 803, 252 P.3d at 84 (emphasis added).

16. The <u>Spackman</u> Court reasoned that adopting IGWA's position would be contrary to the provision in Idaho Code, § 42-233a which states:

The director, upon determination that the ground water supply is insufficient to meet the demands of water rights within all or portions of a critical ground water area, shall order those water right holders *on a time priority basis*, within the area determined by the director, *to cease or reduce withdrawal of water* until such time as the director determines there is sufficient ground water.

Id. (discussing I.C. § 42-233a) (emphasis in original).

17. The Court also held that IGWA's position is contrary to Article XV, § 3, of the Idaho Constitution which states that: "Priority of appropriations shall give the better right as between those using the water ....." <u>Id.</u>

18. The <u>Spackman</u> Court went on to explain that IGWA's "full economic development" argument was inconsistent with the definition of "Full Economic Development of Underground Water Resources" found in the Department's Conjunctive Management Rules. <u>Id.</u> (discussing IDAPA 37.03.11.010.07). The Department defines "Full Economic Development of Underground Water Resources" as:

The diversion and use of water from a ground water source for beneficial uses in the public interest at a rate that does not exceed the reasonably anticipated average rate of future natural recharge, *in a manner that does not result in material injury to senior-priority surface or ground water rights*, and that furthers the principle of reasonable use of surface and ground water as set forth in Rule 42.

IDAPA 37.03.11.010.07 (emphasis added).

19. The Supreme Court also held that IGWA's position was contrary to the State Water Plan. One of the requirements of the State Water Plan is that: "[e]xisting rights, established duties, and the relative priorities of water established in article XV, section 3

of the constitution of the state of Idaho shall be protected and preserved." <u>Id.</u> (citing I.C. §42-1734A(a)).

20. The <u>Spackman</u> decision makes it clear that the economic impact arguments made by IGWA in past water delivery call cases are without merit and should not be advanced in this case. Church's testimony concerning possible economic impacts caused by a curtailment are contrary to Article XV, § 3 of the Idaho Constitution and violate the mandates of I.C. § 42-233a, Conjunctive Management Rule 37.03.11.010.07 and the State Water Plan (I.C. §42-1734A(a)).

21. Moreover, Church's testimony concerning any possible economic impacts caused by a curtailment does not have any tendency to make the existence of any fact that is of consequence in this delivery call more or less probable than it would be without his testimony. <u>See I.R.E. 401 ("Relevant Evidence" means evidence having any tendency to</u> make the existence of any fact that is of consequence to the determination of the action more probable or less probable than it would be without the evidence). As such, Church's testimony is irrelevant and should be excluded pursuant to Rule 600.

22. The bottom line is that:

In making a determination of whether or not to regulate juniors, the Director is required to evaluate whether the quantity [of water] available meets or exceeds the quantity the senior can put to beneficial use. If the Director regulates juniors to satisfy the senior's decreed quantity there is no risk of injury to the senior. However, if the Director regulates juniors to satisfy a quantity less than decreed, there is risk to the senior that the Director's determination is incorrect. There is no remedy for the senior if the Director's determination turns out to be in error and the senior comes up short of water during the irrigation season.

See In re Delivery Call of A&B Irrigation District, Docket Nos. 28403/38421/38422

(August 2, 2012), p. 24 (quoting with approval the reasoning of the District Court)

(emphasis added). There is no place for the economic analysis advanced by IGWA, and, as such, Church's testimony should be excluded pursuant to Rule 600.

### IV. RELIEF SOUGHT

23. For the foregoing reasons, Rangen, Inc. respectfully requests that the Director enter an Order prohibiting IGWA from offering the testimony of Economist John S. Church at the trial of this matter. Alternatively, Rangen requests permission to identify an expert witness to rebut Church's testimony.

24. Rangen requests a hearing on this Motion. DATED this  $\cancel{15}$  day of August, 2012.

BRODY LAW OFFICE, PLLC By M. Brody Robyn

HAEMMERLE & HAEMMERLE, PLLC

7/ By

MAY, BROWNING & MAY

### **CERTIFICATE OF SERVICE**

The undersigned, a resident attorney of the State of Idaho, hereby certifies that on the 1/2 day of August, 2012 she caused a true and correct copy of the foregoing document to be served upon the following by the indicated method:

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Attorneys for Idaho Ground Water Appropriators, Inc.

#### **BEFORE THE DEPARTMENT OF WATER RESOURCES**

#### **OF THE STATE OF IDAHO**

IN THE MATTER OF THE REQUEST FOR ADMINISTRATION IN WATER DISTRICT 120 AND THE REQUEST FOR DELIVERY OF WATER TO SENIOR SURFACE WATER RIGHTS BY A & B IRRIGATION DISTRICT, AMERICAN FALLS RESERVOIR DISTRICT #2, BURLEY IRRIGATION DISTRICT, MILNER IRRIGATION DISTRICT, MINIDOKA IRRIGATION DISTRICT, NORTH SIDE CANAL COMPANY, and TWIN FALLS CANAL COMPANY

**EXPERT REPORT OF JOHN CHURCH** 

1. I am president of Idaho Economics, an economic consulting firm located in Boise, Idaho. The firm's mailing address s P.O. 45694, Boise, Idaho 83711. I am an independent economic consultant and a visiting assistant professor in the Economics Department at Boise State University. I have a Bachelor of Science degree in civil engineering from the University of Washington, a Bachelor of Business Administration degree from Boise State University, and Master of Science degree in economics from the University of Idaho. Prior to becoming an economic consultant I was corporate economist for Idaho Power Company in Boise, Idaho.

2. I have 17 years of professional experience at Idaho Power Company as corporate economist and 8 years of experience as an independent economic consultant. I have experience in building economic models and performing economic impact analysis studies. I have constructed and maintain a long-term economic forecasting model for the purpose of forecasting economic activity and demographic characteristics of the State of .

Idaho and each of Idaho's forty-four counties. A significant portion of this forecasting and analysis concerns Idaho's agricultural industry and the outlook for agricultural products. The output of this economic forecasting model is regularly used by various clients around the state of Idaho for their long-term business and resource planning needs. In addition, I have experience in the economic valuation of long-term resource purchase contracts, the economic evaluation of decision alternatives, economic modeling of local area impacts resulting from transportation improvement projects, and the economic modeling and forecasting of long-term demand and supply for elementary and secondary education teachers. I often am asked by the media and various organizations to comment on or evaluate conomic trends and developments in Idaho. I have served as an expert witness on these and related subjects on many occasions.

3. I have prepared economic impact studies for the Idaho National Engineering and Environmental Laboratory (now the Idaho National Laboratory), resorts, planned communities, location decisions by manufacturing, utility, and service industry firms, expansion decisions by manufacturing firms. For many economic impact studies I have also prepared fiscal impact studies for site or regulatory approval. I have prepared and presented sworn testimony before state regulatory authorities, legislative committees, and to state and federal courts.

4. I have reviewed numerous materials pertaining to the current controversies between holders of surface water rights for irrigation and holders of groundwater rights for irrigation and other purposes divorted from the Eastern Snake Plain Aquifer ("ESPA") in areas that are tributary to the Snake River upstream from Milner Dam. These materials include, among others:

- The January 14, 2005 letter to the Director, Idaho Department of Water Resources ("IDWR" or "Department") from the seven surface water irrigation entities calling themselves the Surface Water Coalition ("Coalition") initiating the Delivery Call action in which this report is being submitted;
- The Director's February 14; 2005 and May 2, 2005 Orders in this case;
- Three economic studies (discussed below) evaluating the effects of shutting off ground water wells as generally requested by the Surface Water Coalition, as well as several sources of data concerning income, jobs, local and state tax collection, and Idaho's agricultural economy;
- The September 15, 2004 ESPA Conceptual Settlement Framework, a/k/a the "Strawman Proposal" pertaining to various aquifer management measures;
- The proposed Ground Water Districts' Mitigation Plan for the American Falls Reach of the Snake River dated February 8, 2005 and submitted by six ground water districts and one irrigation district whose members rely on ESPA ground water (the "Ground Water Districts");

**EXPERT REPORT OF JOHN CHURCH-2** 

- Dr. Charles Brendecke's March 23, 2005 affidavit and accompanying materials submitted to IDWR pertaining to the Ground Water Districts' proposed mitigation plan;
- The Coalition's Joint Response to Director's February 14, 2005 Request for Information dated Match 15, 2005, and its Supplemental Response to Director's Information Request dated April 15, 2005.

5. The purpose of this Report is to evaluate certain questions regarding the economic implications of groundwater pumping as it may have affected the water supplies to certain surface water diverters who use such water for irrigation of commercial agricultural crops, and the economic effects of shut-offs of groundwater wells as proposed by these surface water diverters in the present delivery call before the Department. All opinions in this report are based on my training, experience, and expertise, including my reliance on data, reports, and methods that are reliable and regularly relied upon by experts in my field.

6. I have previously provided, in another matter before the Department, my March 23, 2005 affidavit discussing three economic studies addressing alleged effects on various groups of water users resulting from ground water use, or curtailment of ground water pumping. My affidavit is attached to this report as Exhibit A and is incorporated by this reference. Attached to the affidavit are the three economic studies referenced above.

7. Of particular interest to me in preparing this report is one of these studies, that was written by Joel R. Hamilton, Ph.D., *Economic Importance of ESRPA-Dependent Springflow to the Economy of Idaho* (December 2, 2004) (the "Hamilton Study"). While the Hamilton Study is addressed in my attached affidavit, further comment about it is appropriate here.

8. The Hamilton Study attempts to describe: 1) the economic value of ESPA spring outflows, both in the Thousand Springs reach (Water District 130) and in the American Falls Reach (Water District 120), and 2) the economic damage that has occurred as a result of reduced spring flows in these areas. The Hamilton Study also focuses significant attention on the economic benefits, in the form of the potential hydroelectric generation that additional spring flows would create assuming those flows stay instream through the entire hydropower system on the Snake River.

9. The Hamilton Study asserts that the economic impact of shutting off post-1961 or post-1949 groundwater rights would be minimal. The reasoning is that the economic damage that would result from a curtailment of junior groundwater rights is already accounted for in the economy by what Hamilton assumes to be an essentially equivalent economic harm being experienced by surface water irrigators through reduced water flows. In my opinion, this assumption is unsupported by facts. Nothing in the Coalition's Joint Response to Director's February 14, 2005 Request for Information in this case dated March 15, 2005, that I have reviewed would corroborate this assumption.

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10. In making its calculations, the Hamilton Study assumes that ESPA groundwater withdrawals have had a direct effect on the availability of surface water supplies and have caused surface water users to forego production (and thus income) and to dry up irrigated lands. Hamilton Study at p. 2. The Hamilton Study's central premise, which it describes as "a theme . . . repeated several times," is that "senior water right holders already are experiencing the economic effect of a curtailed water supply." Hamilton Study at p.18. Again, the Hamilton Study provides no data to support this position.

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11. Similarly, Hamilton claims that the surface water users have had to adapt and be creative to deal with what Hamilton infers are groundwater pumping-induced water shortages, and as a result they have incurred a significant expense to install sprinkler systems to make more efficient use of water. Hamilton then concludes that this is a cost imposed by groundwater pumping and already bome by the economy that is somehow balanced or offset by shutting down groundwater-irrigated acres. This is illogical. A rational economic view is that each water user would take, and has taken, those economically-appropriate measures to increase efficient use of the water resource and thereby maximize their own economic output per unit of water. Doing so would tend to maximize economic outputs from all water users that are dependent on the resource. If an irrigator can make his diversion or delivery system more efficient, doing so presumably provides its own economic benefits to that farmer, and in any event was not done in the context of a counterbalancing requirement that ground water rights be curtailed. Furthermore, it would in no way "repay" the surface irrigators for their investment to have the ground water users curtailed.

12. I have seen no documentation that any surface water users receiving their water supply from the Coalition members actually have dried up acreage in the recent drought of 2004, or in 2005. However, these assertions are again made without data or the specific information that would support this position.

13. There is no concrete evidence that surface-irrigated lands in Twin Falls, Jerome, and Gooding Counties have been taken out of irrigation due to lack of water since 1990, and there appears to be no correlation between water supply and farm production in these counties.

14. Idaho's agricultural industry is in troubling economic times. The potato industry and market reflects the economic tensions faced by many in Idaho agriculture today. As an economist, I often refer to statements of industry analysts and leaders, including those reported in the press, for data concerning economic trends, including those affecting the agricultural economy Idaho. My review of such statements has shown that there are several troubling factors facing south Idaho farmers, but I have not found any credible comment that lack of water is among these factors. Attached as Exhibits B and C to this report are articles by Ginautas Duncius of the Wall Street Journal and David Barboza of the New York Times that focus on the current economic problems facing Idaho potato growers. Additional articles which provide insight into the state of Idaho's agricultural industry are combined and attached here as Exhibit D. 15. The common causes that run throughout these descriptions of the troubled state of the potato industry in Idaho are:

- Lower consumer demand for potatoes and potato products nationwide,
- The domestic overproduction of potatoes has forced prices lower,
- Imported Canadian potatoes and potato products have displaced potato supplies that would have, absent the imports, been supplied by U.S. producers,
- Falling prices for potatoes in conjunction with increased input costs have reduced the profitability of many potato growers, and, lately, higher energy prices have increased costs to many of Idaho's potato processors.
- However, the one thing that was not mentioned throughout this catalogue of concerns was any alleged inadequacy in water supplies. Likewise, I have not been able to find specific documented evidence that water supply has been a problem in Idaho's agricultural economy in the period from 1990 to the present.

16. In my opinion, economic forces unrelated to water supply are the major determinates of the state of Idaho's agricultural economy.

17. Over the past ten years agricultural crop producers in South Central Idaho have been facing the increasing economic pressure of very small average annual increases in the price of the agricultural commodity that they produce, and therefore slow growth in the revenues that they receive, while at the same time experiencing a seemingly unrelenting increase in the price of inputs. Energy costs, fertilizer costs, seed costs, the cost of labor and even property taxes are increasing at a faster rate than the price of the agricultural commodity that they produce.

18. Exhibit E provides the background data and some greater detail on this predicament. The figures in Exhibit E are from Table CA-45 Farm Income and Exponses from the detailed local area personal income estimates made by the U.S. Department of Commerce's, Burcau of Economic Analysis. The tables shown in Exhibit E are for Gooding, Jerome, and Twin Falls countles (combined and individually) for the years 1980, 1985, and for the period 1990 through 2003.

19. Pages 1 and 2 represent the combination of the figures from all three counties (Gooding, Jerome, and Twin Falls). Within those tables Line 3 depicts the annual revenues (in current year, or nominal dollars) received by farms from the sale of agricultural crops. Lines 10, 11, and 12 of the table represent the annual expenditures by all farms on three major categories of farm inputs - seed purchases, fertilizer purchases, and the cost of petroleum products purchased.

20. The annual average rate of increase in the revenues received by the agricultural crop producers in these three counties versus the annual average increase in the cost of the three input categories highlighted is truly reflective of the cost squeeze that

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many in Idaho agricultural production are faced with today. Since 1990 through 2003 the annual average increase in the revenues received by crop producers from the sale of their production has increased at an annual average rate of 0.8 percent per year.

21. On the other hand, the total annual expenditures for seed purchases increased at an annual average rate of 4.7 percent per year over the 1990 to 2003 period. Total expenditures on fertilizer increased at an annual average rate of 5.1 percent per year while petroleum product purchases increased at a 3.1 percent annual rate over the 1990 to 2003 period.

22. The growth in the crop producers' revenues did not even keep up with the overall rate of price inflation in the economy. The Consumer Price Index for All Urban Consumers increased at an annual average rate of 2.7 percent per year over the same 1990 to 2003 period. This means that not only is the farmer in these three counties being squeezed by his input prices becoming a larger and larger share of his total revenues, he is also finding that revenue he does receive cannot buy him the same basket of goods and services that it once did. Every year he is falling further and further behind in this economic climate. I have been unable to discern any part of this equation that is specifically attributable to the condition or amount of surface water supplies.

23. Falling crop prices have led the potato producers to voluntarily undertake a program of reducing the number of acres planted so as restrict the available supply and raise prices in the marketplace. (See Exhibit F) This strategy can be somewhat successful for Idaho's potato producers because the State has a very large share of the total national production, provided that the growers can hold to an agreement to restrict the acres planted. Doing so is feasible, in my opinion, because low potato prices already encourage growers to reduce their potato acres. Potato acres planted in Gooding, Jerome, and Twin Falls counties over the last decade were already on a slow decline (see Exhibit G).

24. Why don't the farmers switch to another crop, one with higher market prices and a greater potential to make a profit? At the moment there are no good choices. Wheat prices are lower than a few years ago (see Exhibit H), the price of beans has been falling for the last few years (see Exhibit I), and hay prices are essentially flat (see Exhibit J).

25. Prior to the 2005 irrigation season some persons were anticipating that shortages of surface water would cause dramatic crop losses. As reflected in the Director's May 2 Order in this case, in mid-April 2005 a series of interviews of County Agricultural Extension Agents in the Magic Valley counties was performed in an effort to assess the impact of the drought on crops irrigated from the Snako River in Gooding, Jerome, Lincoln, and Twin Falls counties. In general, it was reported that these interviews found that most growers, through the use of careful water management efforts, and some technological fixes when necessary, had not experienced any appreciable crop losses due to a lack of available water supplies. The 2004 crop production statistics from the National Agricultural Statistics Service (NASS) website at <u>http://www.usda.gov/nass/</u> back this up. The NASS 2004 crop production statistics for Twin Falls County show that potato production per acre harvested was at 435 hundredweight per acre, the highest in

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over fifteen years. Similarly, yields per acre for other crops were also up from the previous year: Alfalfa Hay at 5.43 tons per acre was up nearly 6.9 percent over 2003 yields, Barley at 121.4 bushels per acre was up nearly 15.4 percent over 2003, and Wheat farmers also experienced a 4.8 percent increase in yield per acre in 2004 to 124.2 bushels. The 2004 average yield of 124.2 bushels of Wheat per acre in Twin Falls County was second only to its previous all time high average yield per acre of 127.8 bushels per acre.

26. Many who were interviewed anticipated that 2005 would be the year of severe water shortages and crop losses as great as 35 to 40 percent. However, they were making these speculations in April 2005—just before it continued to rain another 7 inches in the next 45 days.

27. What prospectively looked to some like a situation of potential, waterrelated modest economic losses in 2004 the statistics now show produced increased yields from the previous year. In a similar fashion, the Spring 2005 speculation about the magnitude of future economic losses is nothing more than speculation. A loss is not a loss until it is real. The figures do not indicate that such loss occurred in 2005.

28. With one possible exception, the majority of any perceived economic harm being experienced by the surface water users will not be eliminated by a curtailment of the groundwater irrigators. However, the economic effect on the groundwater irrigators would be dramatic and immediate. A shutting down of the groundwater irrigators pumps leaves no transition to a more efficient method, it leaves no possibility of salvaging a portion of a crop, nor does it leave an opportunity for the groundwater user to reallocate any remaining water supplies, or resort to storage, to lessen the harm.

29. The impact of a groundwater curtailment is also to likely have a similar economic impact on many of South Central Idaho's rural communities.

30. The Snyder Study, (attached to Exhibit A) which was commissioned by the Expanded Natural Resources Interim Committee of the Idaho Legislature in 2005, accurately estimates, in my opinion, the economic impact of a potential curtailment of ESPA groundwater supplies to groundwater irrigators and to Idaho's economy.

31. In the Snyder Study, Professors Snyder and Coupal used IMPLAN, a wellknown and accepted economic impact model, to examine the relative economic gains and losses that would occur in Idaho's economy due to a curtailment of groundwater supplies to irrigators in the ESPA, with the resultant dry-up of irrigated farmland.

32. The Snyder Study evaluated two scenarios of groundwater well shut-offs. One would simulate shutting off irrigation wells with post-1961 water right priorities. The other evaluated a shut-off of post-1949 priorities. The Snyder Study specifically examined the economic impacts upon three major constituencies that would either receive economic benefit or endure economic damage from groundwater curtailment under these two scenarios. These were: a) the ESPA groundwater lirigators, b) the surface water users, and c) the aquaculture water users in the Thousand Springs area. Since we are, in this report, addressing only the effects of a potential groundwater supply

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curtailment on groundwater and surface water users, the predicted impacts on the aquaculture industry are not discussed here.

33. The Snyder Study predicts that a curtailment of a large number of ESPA junior groundwater right holders beginning in the spring of any year would have a nearimmediate economic impact in that year, and follow-on impacts in future years. To the extent that such a curtailment actually puts farms or other enterprises out of business permanently, the near-term impact also would become a long-term impact. I find the Snyder Study's methods and conclusions to be reasonable and supported by data and methods that are reliable and regularly relied upon by experts in my field.

34. However, the Snyder Study predicts that the economic changes that would be realized by the surface water users and the aquaculture industry are predicted to accumulate over relatively long periods of time. Furthermore:

The initial benefits of curtailment to the senior surface/spring watar right holders will be much less than the amount predicted to occur at steady state. For example, as shown in Appendix A, the economic benefits in the form of gross sales to all senior surface/spring water rights holders is estimated to be only \$0.9 million in the first year of curtailment. The total value of output impact on ground water right holders, however, remains constant at a -\$211 million. Thus, in the first year of curtailment, the relative net economic impact is estimated to be in excess of -\$210 million. Snyder Study at xviii

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35. On the other hand, the Snyder Study's predicted economic damages to the groundwater users who would be completely shut off under either of the scenarios would, in the first ten years and when measured in terms of the nominal dollar value of economic output, would be nearly 23 times larger than the predicted economic gains to the surface water users. In my opinion, this is a reasonable prediction of the magnitude of the difference in economic cost-benefit. I provided a chart of these relative effects with my affidavit, attached as Exhibit A. It accurately reflects the magnitude of harm and benefit.

36. In my opinion, a curtailment of groundwater irrigation in the magnitude of either of the Snyder Study scenarios would have an immediate, and large, negative economic impact on the economy of South Central Idaho and ultimately the State.

37. However, even assuming that South Central Idaho's surface-irrigated agricultural economy is suffering due to insufficient water supplies (which, again, is not indicated by any specific data) the slow accumulation of additional surface water supplies to the Coalition members, as shown by the Brendecke work, would not be enough to overcome the macroeconomic forces that have been troubling Idaho's agricultural economy over the last fourteen years in both wet and dry years.

38. However, one consequence of a widespread curtailment of groundwater pumping likely would be that thousands of acres of groundwater irrigated potatoes would be kept out of production, market supply would decrease, and the market price would increase for those potato producers who remain in operation, such as the surface water users represented by the Coalition. This is the "exception" referred to above,

39. There are many factors that have an economic effect on the operations of the surface water user. Many of these are larger macroeconomic issues for which any curtailment of water supplies to those using groundwater irrigation sources will not be a remedy. A curtailment will not lower the price of fertilizers, seed, or fuels. It will not, with perhaps the one exception noted above, raise the agricultural product price and improve the surface water user's profitability. As other studies have shown, the economic damages to the overall economy will be immediate and substantial.

40. A widespread curtailment of ESPA groundwater users, such as the post-1961 priority curtailment described in the Snyder Study, would cause substantial, and likely permanent, harm to Idaho's economy that, in its first year alone, would overwhelm any possible long-term gain.

41. An approach that is consistent with state policies of optimizing or maximizing beneficial uses of the State's water resources consistent with full economic development of ground water within the ESPA would be to implement measures that can maximize economic benefits while phasing in any improvements in aquifer water levels that are designed to improve surface water supplies in amounts and at places shown by credible studies and data to relate to positive economic outcomes, and to take steps to minimize the effects of future droughts without causing the disruptions of groundwater curtailment and loss of farm-dependent economics. In my opinion, for any such program to adhere to the principal of maximizing economic development, it would have to keep ground water pumpers in business as irrigators.

Dated: December 30, 2005.

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John S. Church

EXPERT REPORT OF JOHN CHURCH-9

BEFORE THE DEPARTMENT OF WATER RESOURCES

### OF THE STATE OF IDAHO

IN THE MATTER OF DISTRIBUTION OF WATER TO VARIOUS WATER RIGHTS HELD BY OR FOR THE BENEFIT OF A & B IRRIGATION DISTRICT, et al.,)

IN THE MATTER OF DISTRIBUTION OF WATER TO WATER RIGHT NOS. 36-02356A, 36-07210, AND 36-07427

(Blue Lakes Delivery Call)

IN THE MATTER OF DISTRIBUTION OF WATER TO WATER RIGHT NOS. 36-04013A, 36-04013B, AND 36-07148 (SNAKE RIVER FARM); (Clear Springs Delivery Call)

DEPOSITION OF JOHN CHURCH

NOVEMBER 15, 2007

**REPORTED BY:** 

JEFF LaMAR, C.S.R. No. 640

Notary Public





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IN THE MATTER OF DISTRIBUTION OF WATER TO WATER RIGHT NOS. 36-02356A, 36-07210, AND 36-07427 (Blue Lakes Delivery Call)

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OF THE STATE OF IDAHO

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1	THE DEPOSITION OF JOHN CHURCH was taken on	1	INDEX
2	behalf of the American Falls Reservoir District #2	2	
3	at the offices of Racine, Olson, Nye, Budge &	3	TESTIMONY OF JOHN CHURCH PAGE
4	Bailey, Chartered, 101 South Capitol Boulevard,	4	Examination by Mr. Arkoosh 5,99
5	Suite 200, Boise, Idaho, commencing at 8:10 a.m. on	5	Examination by Mr. Simpson 66,100
6	November 15, 2007, before Jeff LaMar, Certified	6	Examination by Ms. McHugh 95
7	Shorthand Reporter and Notary Public within and for	7	
8	the State of Idaho, in the above-entitled matters.	8	
9		9	
10	APPEARANCES:	10	
11	For American Falls Reservoir District #2:	11	
12	ARKOOSH LAW OFFICES, CHTD.	12	
13	BY MR. C. TOM ARKOOSH	13	
14	P.O. Box 32	14	
15	Gooding, Idaho 83330	15	
16	For Milner Irrigation District, North Side Canal	16	
17	Company, Twin Falls Canal Company, A & B Irrigation	17	
18	Company, Burley Irrigation Company, and Clear	18	
19	Springs:	19	
20	BARKER, ROSHALT & SIMPSON LLP	20	
21	BY MR. JOHN K. SIMPSON	21	
22	1010 West Jefferson, Suite 102	22	
23	P.O. Box 2139	23	
24	Boise, Idaho 83701-2139	24	
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Page 2

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Page 3

1	JOHN CHURCH,	1	that right?
2	first duly sworn to tell the truth relating to said	2	A. Yes.
2	cause, testified as follows:	3	Q. What's the difference? Why do you say
4	cause, lestified as follows.		Idaho and south central Idaho?
5	EXAMINATION	5	A. Well, there is a difference. A great
6	BY MR. ARKOOSH:	6	deal of the economic impact would be specifically
7		7	damaging to the economy of south central Idaho. And
	Q. Mr. Church, my name is Tom Arkoosh. And	8	
8 9	I represent the American Falls Reservoir District	9	what I mean by that is Cassia, Minidoka, Twin Falls,
	No. 2.	10	Jerome, Lincoln, Gooding Counties, and to a lesser
10	A. Uh-huh.		extent Blaine County.
11	Q. And this deposition is given in both the	11	However, some of that does spill over
12	surface water call and the Thousand Springs call.	12	into other parts of Idaho. And I think the
13	And I guess we can stipulate, Counsel,	13	input/output analysis that Snyder uses in his model
14	that we'll just have one transcript. And both	14	is not specific to south central Idaho but is rather
15	depositions are noticed for this time, so we'll just	15	specific to Idaho. And so it does pick up some
16	take them together and put both captions on the face	16	economic impacts that will fall outside of the area.
17	of the deposition?	17	In particular, tax impacts will fall
18	MS. McHUGH: Yeah, that's fine.	18	outside of the area. A lot of supplier impacts will
19	MR. ARKOOSH: Okay.	19	fall outside of area also, the area of south central
20	Q. Who are your employers in these calls?	20	Idaho.
21	A. Idaho Ground Water Users Association.	21	(Mr. May joins the proceedings.)
22	Q. In both calls?	22	Q. (BY MR. ARKOOSH): Any other impacts?
23	A. In both calls, yes.	23	Tax and supplier impacts. Any others?
24	Q. Okay. And what was your charge? What	24	A. Well, that translates to not only tax
25	were you asked to do?	25	revenues to the State of Idaho, but also income
	Page 6		Page 8
	A The short discussion is invested of		00 · · · · · · · · · · · · · · · · · ·
1	A. To evaluate the economic impacts of	1	effects to persons throughout the state of Idaho,
2	these ground water calls upon the economy of Idaho	2	employment effects to persons in the state of Idaho.
3	and south central Idaho, review the reports of	3	Q. Any others?
4	Snyder and Coupal and Hamilton and Hazen in terms of	4	A. Loss of sales. But those really
5	the validity of their economic impact studies and	5	translate down to the other two, yes.
07	analyses, to offer my opinions as to what the	6	Q. Are you going to offer or have you
7	economic impacts may be.	1	formed, either one and that is a compound
8	Q. Okay. I see two different things, then,	8	question any other opinions that you have not
9	Mr. Church: One is to review other people's	9	given us in your direct and rebuttal testimonies?
10	analyses, and the other thing is that - were you to	10	A. No.
11	do a separate independent analysis?	11	Q. Okay. Do you have your rebuttal report
12	A. No, I didn't do a separate independent	12	for the surface water call in front of you?
13	analysis.	13	MS. McHUGH: He has his rebuttal report of
14	Q. So then the substantive material that	14	the Thousand Springs case. It's identical.
15	has led to your opinions is found in all of the	15	THE WITNESS: Yes.
16	other reports that you just described?	16	MR. ARKOOSH: No, it doesn't matter, if it's
17	A. A substantive amount of that is in those	17	identical.
18	reports that I've described. I did use some	18	MS. McHUGH: Okay.
19	supplemental materials that is attached to my	19	Q. (BY MR. ARKOOSH): Are they identical,
20		20	
21	Q. Okay. And you were to evaluate the	21	A. I only wrote one.
22		22	
23	0 1	23	
24	supplemental material you looked at and based on	104	A Man
25		24	

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	Page 9		Page 11
1	your rebuttal report that "It is clear that	1	And that really was an analysis in, I think, the
	Dr. Hamilton misses the intent of the	2	Snyder study of the whole economy, but they were
3	Snyder/Coupal," C-o-u-p-a-l, "report when he	3	charged with looking at three pieces and parts.
4	comments at paragraph 21 of his expert rebuttal	4	What I'm saying here is Hamilton
5	report: The decision by Snyder and Coupal to	5	criticizes them for not looking at other parts of
6	exclude these," quote, "'externality," close quote,	6	the economy. But they specifically said up front
7	"effects such as hydropower from their analysis is	7	that they were charged to look at three specific
8	perplexing," et cetera.	8	sectors.
9	Do you see that language?	9	Q. For purposes of the call, what's the
10	A. I do.	10	relevant inquiry, in your view?
11	Q. Okay. And then the point that "The	11	A. In terms of economic impacts?
12	purpose of the Snyder/Coupal analysis was explained	12	Q. Yes.
13	at page IX of the report: The Natural Resources	13	A. I think that the relevant inquiry gives
14	Interim Committee of the Idaho Legislature	14	you - well, let me put it this way.
15	determined that it should commission an independent	15	The overall economic impacts are largely
16	economic analysis to provide an assessment."	16	reflected in examining those three sectors of the
17	Do you see that language?	17	economy the Snyder and Coupal work was charged to
18	A. Yes, I do.	18	look at. So we will probably have daring to put
19	Q. Would you expound on that point? Let me	19	a phrase to it that kind of the Mackenzie
20	paraphrase it.	20	approach: We'll have the 80 percent solution
21	As I understand what you're saying,	21	with quote, "80 percent solution," unquote, with
22	Dr. Hamilton shouldn't read the Snyder/Coupal report	22	examining those three sectors. So we'll be very
23	to measure effects throughout the Idaho economy, but	23	close to the total economic impacts.
24	instead should read it to measure the effects in	24	Q. You seem to be saying, then, the
25	south central Idaho.	25	relevant inquiry is the total economic impact to the
	Page 10		Page 12
1	Is that a fair paraphrase?	1	economy of the state and not just those three
2	A. No, that's not a fair assessment of what	2	factors of the economy?
3	I was saying there.	3	A. Those three factors of the economy
4	Q. Okay.	4	those three sectors that will be impacted will be
5	A. What I was saying there essentially is	5	the largest components of the economic impacts of
6	if you go to that section of the I'll set this	6	the state.
7	over here. Snyder and Coupal, if you go to that	7	Q. Okay. You're answering a different
8	section of their report, they're essentially telling	8	question than I'm asking, and I think you know that.
9	you the parameters that they had to do their study.	9	A. Yes.
10	Q. Okay.	10	Q. Why don't you answer first the question
11	A. And essentially they were charged with	11	I'm asking, and then let's talk about the effects of
12	examining three direct sectors of the economy, and	12	the study.
13	not treating all of the sectors that could have been	13	What is the relevant inquiry for
14	impacted. Certainly the hydropower sector could	14	purposes of the call, the state economy or just
15	have been impacted. But specifically they were	15	those three sectors of the economy?
16	directed and scoped down to the point of looking at	16	A. Mr. Arkoosh, I don't think you can
17	what were the effects upon the surface water users	17	separate the two.
18	if they were to put the call into place and receive	18	Q. I agree. They're all part of an
19	more water, to the ground water users as to what	19	economy. But one economy is larger than sectors o
20		20	
21	were in place, and to the spring water users, what	21	Is the relevant inquiry the economic
22		22	impacts on the economy in the state of Idaho?
23		23	A. Yes.
24	-	24	
25		25	said that they were not making an analysis of the
		-	NG SERVICE, INC. (208) 345-8800 (fa

			state and a second state of the
1	effects on the entire economy in the state of Idaho;		there was a different answer.
2	correct?	2	Q. Did you participate in the development
3	A. They specifically focused their analysis	3	of the requests for the Snyder/Coupal report?
4	upon three sectors that they were charged to look	4	A. Not for the requests for it.
5	at. In total, it would not have captured all the	5	Q. What was your participation?
6	economic impacts upon the state of Idaho.	6	A. I was there in terms of data assembly.
7	Q. You indicate at page 3 of your rebuttal	7	I had a contract with the State of Idaho to do
8	testimony that "If Dr. Hamilton really wants a more	8	fiscal impacts as a side adjunct of what Snyder and
9	complete analysis of potentials costs and benefits	9	Coupal came up with.
10	associated with the curtailment of ground water	10	So Snyder and Coupal were going to
11	pumping in the ESPA, he should lobby the Idaho	11	coming up with economic impacts to those three
12	legislature to sponsor a further study that would	12	sectors to show what happened to the Idaho economy.
13	build upon the information already known and	13	I, in turn, were to take that and trace that back to
14	complete a review of the other sectors of the Idaho	14	say here's what would happen to tax revenues to the
15	economy that he is concerned about."	15	state of Idaho and to local governments.
16		16	
17	Do you see that language? A. Yes.	17	Q. Who was your client in that work?
			A. The Idaho attorney general's office.
18	Q. Okay. Can you expound on that? I mean,	18	Q. And specifically with whom did you
19	what does lobbying the legislature have to do with	19	interact?
20	the development of expert testimony in this case?	20	A. Clive Strong.
21	A. The legislative committee commissioned	21	Q. And what did he ask you to do?
22	the study, provided an amount of money for the study	22	A. Essentially what we've just explained,
23	and a time frame for this study to be done. And in		to do a fiscal impact analysis on the state of
24	that regard, that was a large constraint as to how	24	Idaho. That never was completed, though.
_25	much could be done, what sectors could be looked at,	25	Q. I was going to say I've never read it.
	Page 14		Page 16
		1	
1	given the budget that they had and the time that	1	A. Yeah.
1 2	given the budget that they had and the time that they had.	12	
1 2 3	they had.	1	Q. So why was it not completed?
	they had. If he wants a more complete analysis,	2	<ul><li>Q. So why was it not completed?</li><li>A. It was not completed because I misread</li></ul>
3 4	they had. If he wants a more complete analysis, then a larger budget would probably be necessary and	2 3 4	<ul><li>Q. So why was it not completed?</li><li>A. It was not completed because I misread</li><li>the contract. And I did some consulting work with</li></ul>
3 4 5	they had. If he wants a more complete analysis, then a larger budget would probably be necessary and a longer time frame would be necessary.	2 3 4 5	<ul><li>Q. So why was it not completed?</li><li>A. It was not completed because I misread</li><li>the contract. And I did some consulting work with</li><li>Givens, Pursley for IGWA. And the contract with the</li></ul>
3 4	they had. If he wants a more complete analysis, then a larger budget would probably be necessary and a longer time frame would be necessary. So given the constraints the committee	2 3 4	Q. So why was it not completed? A. It was not completed because I misread the contract. And I did some consulting work with Givens, Pursley for IGWA. And the contract with the attorney general's office had an exclusivity clause
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Q. You didn't have any discussions with	1.	
C	1	Q. Any legislators?
Clive?	2	A. No.
A. Well, in terms of the parameters that he	3	Q. Anyone else in the AG's office?
wanted, I pretty well understood what he wanted out	4	A. No.
of that. And that was essentially as an adjunct to	5	Q. The rest of your rebuttal goes on to
	6	point out that although Dr. Hamilton expanded the
	7	scope of the inquiry by talking about those what
the State of Idaho. And in terms of tax revenue	8	we've labeled "externalities" that were not in the
control of states, while states are subscription of the states of the states of the states of	9	Snyder/Coupal report, you're somewhat critical of
	10	the way he handled some of those externalities; is
		that fair to say?
	1	A. I don't think it's fair to say I was of
		the way he handled those externalities. I think I
		was critical of the fact that he was essentially
		casting some doubt onto the report because of
		incompleteness, when in actuality the report had
· · · · · · · · · · · · · · · · · · ·	1	been defined and stated up front that it was defined
		to look at these three sectors.
The second se		Q. That was your first opinion
		A. That was my first opinion, yes.
	1	Q. – that we've just discussed.
	1	But you go on, and you say at page 3,
		for instance, in the middle of the page, you say,
	1	"Further, Dr. Hamilton misinterprets the purpose and
		intent of my expert report," and then you go on to
Page 18		Page 20
Imperie that 0	1	and that I A labour he notices he arrest with a
	2	say that "Although he notices he agrees with a number of the assumptions, he didn't come to
	2	adequate conclusions regarding the externalities
	1	
	1	that he examined." Starting at page 4 you talk about domestic and industrial, page 5 livestock,
	-	
	7	page 6 sugar beet and potato processing, page 5 is
	0	ESPA.
		Do you see that discussion?
	1	A. I do.
		Q. Is that a fair paraphrase that after you
	1	said that he's misread the purpose of the
		Snyder/Coupal report, then you say that where he's
		expanded it, he hasn't necessarily done it
		correctly?
	1	A. Let me see if I said "done it
	1	correctly."
	1	I don't read that into it, that he did
	1	
	1	Q. Could have done it differently? Could
	1	more expansively? I'm just looking for a paraphras
	1	
· · · · · · · · · · · · · · · · · · ·		
	1	
A. No. 8) 345-9611 M & M COURT REPC		
	wanted, I pretty well understood what he wanted out of that. And that was essentially as an adjunct to the input/output analysis that Snyder and Coupal were doing, what would be the fiscal impacts upon the State of Idaho. And in terms of tax revenue impacts. Q. Why would the State of Idaho look at that question? Do you understand why? And if you do, can you explain why? A. Well, in general, I think it is part of the economic impacts. So it's and in the sense that the study focused in terms of Snyder and Coupal's focused down to three sectors of the economy and what were the impacts upon those three sectors. This was almost like a side adjunct to it as to what impacts will it have on tax revenues in the state of Idaho. Now, specifically, why they wanted to know that, I don't know. I mean, nobody told me exactly why they wanted to know that. Q. Do you have an idea why they wanted to	wanted, I pretry well understood what he wanted out of that. And that was essentially as an adjunct to the input/output analysis that Snyder and Coupal were doing, what would be the fiscal impacts upon the State of Idaho. And in terms of tax revenue impacts.          Q. Why would the State of Idaho look at that question? Do you understand why? And if you do, can you explain why?       10         A. Well, in general, I think it is part of the economic impacts. So it's and in the sense that the study focused in terms of Snyder and Coupal's focused down to three sectors of the economy and what were the impacts upon those three sectors.       13         This was almost like a side adjunct to it as to what impacts will it have on tax revenues in the state of Idaho.       21         Now, specifically, why they wanted to know that, I don't know. I mean, nobody told me exactly why they wanted to know that.       24         Q. Do you have an idea why they wanted to       25         Page 18       14         Know that?       1         A. It was part of the economic impacts.       2         Q you don't have an idea?       6         A. No.       7         Q. Okay. Mr. Church, you're going to have to let me finish a question A. Certainly.       10         Q and I'll try and let you finish an answer. And it's very hard to do. I understand that.       11         A. With Snyder and Coupal, I did. And that was essentially that I needed their results to complete my analysis. So I needed to have their projected economic impacts.       20

Page 21

1	"externality sectors of the economy," and in that	1	heavy on the aquifer, especially in a time of
2	regard the report is incomplete. And I've	2	drought, that we're reducing those levels that I
3	criticized the fact that you could have made or	3	described in order
4	should have made a request to expand the economic	4	A. Especially in a time of drought, yes.
5	impact analysis to include those sectors. And then	5	Q. Okay. So one benefit of being sure
6	I also said, though, that Dr. Hamilton could have	6	demand is either equal to or less than supply is
7	inferred or at least made some better judgment than	7	that it offers a benefit to the economy?
8	he had in terms of these sectors by just commonsense	8	A. Yes.
9	analysis.	9	Q. Okay. And conversely, when demand
10	Q. Okay. And that's what I was getting to.	10	outstrips supply in both the short term and the long
11	You've looked at the externalities and you've	11	term, it is a detriment to the state's economy, and
12	applied a commonsense analysis and you've come to	12	specifically to the south central Idaho economy?
13	some various conclusions?	13	A. In the short term?
14		14	Q. In the short term and in the long term.
15	Q. Okay. Let's talk about that method and	15	A. Well, there's a difference. I think in
16		16	the short term if you supposedly mine the water, you
	11 2 0	17	
17	factors. I want to give you a definition first.	1	would have a benefit to the economy in the short
18	When I talk about a healthy aquifer, I'm speaking of	18	term. The long term would be negative to the
19	1	19	economy.
20	1 0	20	Q. Okay. You indicated that the
21		21	Snyder/Coupal report was peer reviewed; is that
22		22	correct?
23	for a manual management of a manual management of the second seco	23	A. Yes.
24		24	
_25		25	A. It's been reviewed by other economic
	Page 22		Page 24
1			and family to the second second in the second second
1	aquifer advances the state's economy or restricts	1	professionals. It was reviewed in terms of the
2		2	hydrologic assumptions that were put into it and
3		3	what acres would be essentially curtailed by a
4		4	sprinkled acres, ground-water-use acres would be
5		5	curtailed, what could be grown upon them post
6	state's economy, obtaining a healthy, stable aquifer	6	curtailment.
7	is a good, positive thing economically; is that	7	So in terms of the assumptions, they
8	correct?	8	were reviewed by professionals in agriculture and
9	A. It would be a good, positive thing	9	hydrology, and in terms of the forecast and the
10	economically.	10	methodology, reviewed by economists.
11	Q. Okay. And in order to get to a healthy	11	Q. And who are those people that did the
12	economy, notwithstanding the agreements regarding	12	review? Do you know?
13	the condition of the economy, we want to be sure	13	A. Lots of names, but not specifically, no.
14	that demand does not outstrip supply of water; is	14	Q. Okay. Where do we find that list of
15	that right?	15	names? In the report?
16	A. In a very short-term sense, that may not	16	A. Yes. Yes.
17		17	Q. Okay. If you'd look at page 3 of your
18		18	
19		19	
20		20	
21		21	C. The second se
22	,	22	
23		23	
24	11	24	
25		25	
	An even of the second		
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1	MR. ARKOOSH: Let's go back on the record.	1	correlation between water supply and farm production
2	Q. Do you recall, Mr. Church, language in	2	in Twin Falls, Jerome, and Gooding Counties, for
3	either your report or testimony as follows: "There	3	example, you're only talking about a decision to
	appears to be no correlation between the water	4	idle lands? You're not talking about getting caught
	supply and farm production in Twin Falls, Jerome,	5	in an irrigation season and shutting off water to a
	and Gooding Counties, for example. I conclude that	6	growing crop?
	economic forces unrelated to water supply are the	7	A. No, I wasn't talking about that.
	major detriments to the state of Idaho's	8	Q. That's pretty damaging, though, isn't
	agricultural economy. A rational economic view is	9	it?
	-		
	that each water user takes economically appropriate	10	A. It can be. It depends on which crop it
	measures to increase efficient use of water	11	is and which stage of the process it is, where it is
	resources, thereby maximizing his economic output	12	in that crop production function.
	per unit of water, and that if an irrigator can make	13	Q. Well, it was all crops in mid-August
	his diversion or delivery system more efficient,	14	across 64,000 acres.
	doing so provides its own economic benefits to the	15	Were you aware of that?
	farmer and was not done in the context of	16	A. No, I wasn't aware that it was to that
	counterbalancing requirement that ground water users	17	extent.
18	be curtailed."	18	Q. And if you recall, 2004 was one of the
19	Do you recall that language?	19	hot drought years.
20	A. I do recall that language.	20	Do you recall that?
21	Q. And do you still agree with that	21	A. Yes.
22	opinion?	22	Q. Okay. So that would be a material
23	A. Yes, I do.	23	economic impact, would it not?
24	Q. Okay. So in summary, it seems to me	24	A. Yes. American Falls Irrigation District
	that what you're saying is that one of the problems		is in what counties?
	Page 26		Page 28
1	that farm production problems suffered by surface	1	Q. Well, it's spread across several. But
2	water users were not due to lack of water supply but	2	it's called the Gooding system. It's Gooding
	from other forces; is that right?	3	County, Lincoln County, Jerome County, runs across
4	A. In the context of they were well,	4	those counties.
5	they were caused by other forces to a large extent.	5	But you were either not given or did not
6	Q. Well, let me just give you for instance.	6	have that information that in 2004, the year before
	Later on you say that "There's been no evidence	7	the call, that that reservoir district was shut down
8	presented that anybody ceased to irrigate on the	8	in mid-August?
9	basis of lack of water."	9	A. Let me look at something real quick.
		10	Very dangerous proposition to pick up
10 11	Do you recall that in your report?	1	your binder by the rings and have it fall apart on
	A. Yes, I recall that.	11	
12	Q. Are you aware that, for instance,	12	you, which I did before the PUC one time. Lost all
	American Falls Reservoir District No. 2 shut off in	13	my stuff.
13			Yes. In forming my analysis, I had only
14	mid-August in 2004? They ran out of water. Were	14	
14 15	you aware of that?	15	gone up to data through 2003 which was available at
14 15 16		15 16	that time - at that time.
14 15	you aware of that?	15	that time – at that time. Q. Okay. What are the economically
14 15 16	you aware of that? A. Oh, I'm aware that they have	15 16	that time - at that time.
14 15 16 17	you aware of that? A. Oh, I'm aware that they have occasionally run out of water early in the year.	15 16 17	that time – at that time. Q. Okay. What are the economically
14 15 16 17 18	you aware of that? A. Oh, I'm aware that they have occasionally run out of water early in the year. That has not been in the sense of cease to irrigate. I mean, in the sense the way I phrase it here as	15 16 17 18	that time – at that time. Q. Okay. What are the economically appropriate measures you talked about? When you sa "A rational economic view is that each water user
14 15 16 17 18 19 20	you aware of that? A. Oh, I'm aware that they have occasionally run out of water early in the year. That has not been in the sense of cease to irrigate. I mean, in the sense the way I phrase it here as "Did not irrigate lands or put idle lands or set	15 16 17 18 19	that time – at that time. Q. Okay. What are the economically appropriate measures you talked about? When you sa "A rational economic view is that each water user takes economically appropriate measures to increase
14 15 16 17 18 19 20 21	you aware of that? A. Oh, I'm aware that they have occasionally run out of water early in the year. That has not been in the sense of cease to irrigate. I mean, in the sense the way I phrase it here as "Did not irrigate lands or put idle lands or set aside lands."	15 16 17 18 19 20 21	that time – at that time. Q. Okay. What are the economically appropriate measures you talked about? When you sa "A rational economic view is that each water user takes economically appropriate measures to increase efficient use of water resources, thereby maximizing
14 15 16 17 18 19 20 21 22	<ul> <li>you aware of that?</li> <li>A. Oh, I'm aware that they have</li> <li>occasionally run out of water early in the year.</li> <li>That has not been in the sense of cease to irrigate.</li> <li>I mean, in the sense the way I phrase it here as</li> <li>"Did not irrigate lands or put idle lands or set aside lands."</li> <li>Q. Well, they just quit irrigating crops in</li> </ul>	15 16 17 18 19 20 21 22	that time – at that time. Q. Okay. What are the economically appropriate measures you talked about? When you sa "A rational economic view is that each water user takes economically appropriate measures to increase efficient use of water resources, thereby maximizing his economic output per unit of water."
14 15 16 17 18 19 20 21 22 23	<ul> <li>you aware of that?</li> <li>A. Oh, I'm aware that they have</li> <li>occasionally run out of water early in the year.</li> <li>That has not been in the sense of cease to irrigate.</li> <li>I mean, in the sense the way I phrase it here as</li> <li>"Did not irrigate lands or put idle lands or set aside lands."</li> <li>Q. Well, they just quit irrigating crops in the ground; isn't that right?</li> </ul>	15 16 17 18 19 20 21 22 23	that time – at that time. Q. Okay. What are the economically appropriate measures you talked about? When you sa "A rational economic view is that each water user takes economically appropriate measures to increase efficient use of water resources, thereby maximizing his economic output per unit of water." What are "economically appropriate
14 15 16 17 18 19 20 21 22	<ul> <li>you aware of that?</li> <li>A. Oh, I'm aware that they have</li> <li>occasionally run out of water early in the year.</li> <li>That has not been in the sense of cease to irrigate.</li> <li>I mean, in the sense the way I phrase it here as</li> <li>"Did not irrigate lands or put idle lands or set aside lands."</li> <li>Q. Well, they just quit irrigating crops in</li> </ul>	15 16 17 18 19 20 21 22 23	that time – at that time. Q. Okay. What are the economically appropriate measures you talked about? When you sa "A rational economic view is that each water user takes economically appropriate measures to increase efficient use of water resources, thereby maximizing his economic output per unit of water." What are "economically appropriate measures"?

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1	the land, using sprinklers to get a better	1	it's not enough water, he will do what he can within
2	application of water, to apply it in a correct	2	the terms of profitability to get more water, would
3	fashion so you do not have runoff. Some very	3	he not?
4	high-tech sort of things today where sensors are in	4	A. Yes.
5	the ground that detect what the water content is of	5	Q. Okay. You have the Snyder/Coupal report
6	the soil, so on and so forth. So do I need to water	6	in your hands. Would you look at page 55.
7	now or do I need to water later? This sort of	7	I thought that that was off the
8	thing. Very efficient use. It probably puts the	8	record.
9	right amount of water on the crop at the right time.	9	(Discussion.)
10	Actually, I do believe Dr. Hamilton even	10	MR. ARKOOSH: Back on the record.
11	points that out as being a significant factor where	11	Q. Are you aware of a study done of a basin
12		1	
	he says, "Much of the interest in sprinklers and	12	in northern Spain called "Multi Criteria Modeling of
13	other high-application-efficiency irrigation systems	13	Irrigation Water Market at Basin Level"
14	results from the somewhat higher yields they often	14	A. No, I'm not.
15	make possible. Sprinklers often allow better timing	15	Q done by a couple of economists, Jose
16	of water application, more even water distribution,	16	Rodriguez and Yolanda Martinez?
17	and hence can increase crop consumptive water use	17	A. No.
18	along with yields."	18	Q. Are you familiar with that?
19	Q. So faced with a water shortage, your	19	A. I'm not.
20		20	Q. They came to a couple of conclusions. I
21	tells you that people would use their water more	21	want to read one to you and ask you if you agree or
22		22	
23		1	disagree with the conclusion.
	A. Yes.	23	A. Okay.
24		24	· · · · · · · · · · · · · · · · · · ·
25	water shortage? Would they try and increase the		some interesting practical conclusions can also be
	Page 30		Page 32
1	supply of water?	1	drawn, the most important of which is the potential
2	A. Well, of course, they would.	2	of water markets to act as a demand policy
3	Q. I would guess that one's common sense	3	instrument to improve economic efficiency and
4	would tell one that if a junior user was faced with	4	
5	curtailment, he would try to go out and get some	5	
6	water?	6	positive impact from the economic and social points
7	A. And even if a senior user were faced	17	of view. These gains are due to transfers being
8	with a shortage, he would go out and try and get	8	
9	some water.	9	profiles enjoying greater competitive advantages,
10	Q. Sure.	10	favorable soil and climate conditions, and better
11	A. Yeah.	11	geographic locations downstream."
12	Q. Okay. That's Adam Smith's economic	12	Do you agree with that?
13	hand invisible hand at work, isn't it?	13	A. I do. I think water markets are
14	A. Yeah.	14	advantageous.
15	Q. I mean, you try to go out and maximize	15	
16	your profits.	16	Q. Okay. And would you elaborate on that?
17	So you try to get the inputs you need to	17	"Advantageous," what do you mean by
18	maximize your profits; isn't that correct?	1	that?
19	A. That's correct. It may mean, though,	18	A. It would allow a better distribution of
20	that to the extent - and this is an -1	19	water. It would allow water to move to its highest
21	that to the extent and this is an unknown to	20	use to where it would be most productive in the
22	the extent that the senior surface water users have	21	economy.
	backup irrigation wells to be the buffer against the	22	So those, essentially that would have a
	snortage.	23	higher value for it and receive greater profit
24	Q. Well, any water user will do all he can	24	that's their motivation would be willing to pay
25	to both maximize the use of the water he has, and if	25	for it.
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1	Q. Would those greater profits benefit the	1	one, which we're going through right now.
2	economy overall in the kind of input/output analysis	2	Q. Okay.
3	that Snyder/Coupal used?	3	A. That's probably the first step that any
4	A. Yes. Yes.	4	one of them would make and I think both of them have
5	Q. Okay. Let me put this go ahead.	5	made in terms of parties here or to all parties -
6	Finish your answer.	6	Q. Okay.
7	A. No. Go ahead. No. Go ahead.	7	A is going through the legal process to
8	Q. In layman's terms, the water would	8	try and mitigate or dismiss or abate that threat to
9	follow the money, would it not? Where it can be	9	the extent that they can.
	most beneficially used is where the water would go	10	If they cannot, then obviously they're
	if, again, Adam Smith's invisible hand were allowed	11	going to find different strategies for survival
	to operate?	12	financially, economically, that may be "What can I
3	A. The water would follow the money. I	13	do without the water?" or "What can I do if I only
	guess that's one way of putting it. The money would	14	receive part of the water? What other alternatives
5	attract the water.	15	do I have for the assets that I've got?"
6	Q. Okay. And overall, then, that would be	16	That can involve, if I'm not harvesting,
.7	a benefit to the economy?	17	then "Let me get rid of assets that I have." Maybe
8	A. Yes.	18	I do not need machinery anymore. Maybe I can cut my
9	Q. Okay. Because we would have more	19	expenses that way. Maybe I can enroll my land in
20	efficient and ultimately more profitable use of the	20	some sort of set-aside program that would allow me
21	water; is that right?	21	to earn something rather than nothing. Maybe I can
22	A. That's right.	22	buy water.
23	Q. Okay. Now, I'm going to tell you,	23	Q. Okay.
	page 55 of the Snyder/Coupal report that I have	24	A. Unfortunately, sometimes the water bank
25	A. I think we're the same now.		doesn't work all that well here.
3 4 5 6 7 8 9	they write this sentence regarding suggestions for further analysis. "These models can address the issue of profitability and may also feed into a larger regional impact model such as the one used in these analyses." Do you see that language? A. Yes. Q. Okay. That indicates to me that there's	3 4 5 6 7 8 9	bank? A. I can't really speak to that. Q. Okay. The conjunctive management rules allow a junior user who's been ordered to curtail to mitigate for the injury that he's causing so that he doesn't have to curtail. You're aware of that, I'm sure?
10	not been an analysis of profitability done in the	10	A. Yes.
11	input/output model that Snyder/Coupal used?	11	Q. And that, in effect, is a type of water
12	A. No, there was not.	12	market; isn't that right?
13	Q. Okay. In your view, using common sense	13	A. Uh-huh.
14	in your experience as an economist, what would	14	Q. And so a private mitigation agreement
	hi jour experience us an economist, what would	1	could be as simple as a senior pumper paying a
		15	obula be ab billiple as a bellior palliper paying a
15	happen if there were a threat of curtailment or	15	junior number not to nump and then asking for
15 16	happen if there were a threat of curtailment or order of curtailment? What would the individual	16	junior pumper not to pump and then asking for approval from the department
15 16 17	happen if there were a threat of curtailment or order of curtailment? What would the individual farmer do facing that threat or facing an order of	16 17	approval from the department.
15 16 17 18	happen if there were a threat of curtailment or order of curtailment? What would the individual farmer do facing that threat or facing an order of curtailment? How would he respond to that?	16 17 18	approval from the department. You're aware of that process, are you
15 16 17 18 19	happen if there were a threat of curtailment or order of curtailment? What would the individual farmer do facing that threat or facing an order of curtailment? How would he respond to that? A. Restate that.	16 17 18 19	approval from the department. You're aware of that process, are you not?
15 16 17 18 19 20	<ul> <li>happen if there were a threat of curtailment or order of curtailment? What would the individual farmer do facing that threat or facing an order of curtailment? How would he respond to that?</li> <li>A. Restate that.</li> <li>Q. Okay. Using your common sense, that</li> </ul>	16 17 18 19 20	approval from the department. You're aware of that process, are you not? A. Uh-huh.
15 16 17 18 19 20 21	<ul> <li>happen if there were a threat of curtailment or order of curtailment? What would the individual farmer do facing that threat or facing an order of curtailment? How would he respond to that?</li> <li>A. Restate that.</li> <li>Q. Okay. Using your common sense, that commonsense method that you pointed out in your</li> </ul>	16 17 18 19 20 21	<ul> <li>approval from the department.</li> <li>You're aware of that process, are you</li> <li>not?</li> <li>A. Uh-huh.</li> <li>Q. Would that be one of the strategies that</li> </ul>
15 16 17 18 19 20 21 22	<ul> <li>happen if there were a threat of curtailment or order of curtailment? What would the individual farmer do facing that threat or facing an order of curtailment? How would he respond to that?</li> <li>A. Restate that.</li> <li>Q. Okay. Using your common sense, that commonsense method that you pointed out in your rebuttal report, and your experience as an</li> </ul>	16 17 18 19 20 21 22	<ul> <li>approval from the department.</li> <li>You're aware of that process, are you</li> <li>not?</li> <li>A. Uh-huh.</li> <li>Q. Would that be one of the strategies that</li> <li>your common sense leads you to believe that could be</li> </ul>
15 16 17 18 19 20 21 22 23	<ul> <li>happen if there were a threat of curtailment or order of curtailment? What would the individual farmer do facing that threat or facing an order of curtailment? How would he respond to that?</li> <li>A. Restate that.</li> <li>Q. Okay. Using your common sense, that commonsense method that you pointed out in your rebuttal report, and your experience as an economist, what would a farmer do facing a threat of</li> </ul>	16 17 18 19 20 21 22 23	<ul> <li>approval from the department.</li> <li>You're aware of that process, are you</li> <li>not?</li> <li>A. Uh-huh.</li> <li>Q. Would that be one of the strategies that</li> <li>your common sense leads you to believe that could be employed?</li> </ul>
15 16 17 18 19 20 21 22 23 24 25	<ul> <li>happen if there were a threat of curtailment or order of curtailment? What would the individual farmer do facing that threat or facing an order of curtailment? How would he respond to that?</li> <li>A. Restate that.</li> <li>Q. Okay. Using your common sense, that commonsense method that you pointed out in your rebuttal report, and your experience as an economist, what would a farmer do facing a threat of curtailment?</li> </ul>	16 17 18 19 20 21 22	<ul> <li>approval from the department.</li> <li>You're aware of that process, are you not?</li> <li>A. Uh-huh.</li> <li>Q. Would that be one of the strategies that your common sense leads you to believe that could be employed?</li> <li>A. It could be.</li> </ul>

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rage 57		Tage 35
reduce demand on the aquifer?	1	profitable to use ultimately in the market?
A. Restate your position again. In terms	2	A. That's different than what I realized
	3	you stating the first time around.
	4	Q. Okay. I misstated myself.
	5	A. Yeah. Because the senior was paying the
	6	junior not to pump, not the junior paying the senior
	7	not to pump.
	8	Q. No, it's the junior.
		The person facing curtailment is the one
		that needs to mitigate or cease farming
		A. Right.
		Q or find other strategies?
		A. That's my misunderstanding of what you
		were saying, because it didn't make sense to me as
		to why the senior would be paying the junior if the
		junior was the one who was going to be curtailed.
A. That's correct, if you cut pumping from		And I couldn't understand why the senior was going
the aquifer.	18	to be curtailed.
Q. And as a rational economic being, to	19	Yes, that would make sense. That would
make that decision, the junior user would have to	20	make sense.
decide that it's economically feasible for him to do	21	Q. Okay. And it would flow to the
	22	A. The highest use.
	1	Q. Yeah. And the same could be said of any
	1	
0	24G	Page 40
O. So the water would move to the most	1	canal company not to use water or a settler on a
	2	canal company or a canal company water user not to
	3	use water as well; isn't that correct?
		A. That's correct.
		Q. And there are two, I see from our prior
	-	discussions, beneficial outcomes to this: One, we
	7	
	8	were going to decrease demand on the aquifer; and
	0	second, we're going to use the resource to increase
	-	the overall profit in the economy.
5,	1	Those are at least two beneficial
	1	aspects of doing that; is that right?
	1	A. That's correct.
		Q. Okay.
	1	A. There's a difference between short term
	15	and long term with those two things.
	16	Q. Okay. Please elaborate on that.
Q. Okay.	10	
Q. Okay. A. In the sense that the senior pumper has	17	A. Well, again, the long-term benefit would
	1	A. Well, again, the long-term benefit would be to very cautious with that cup, I see. The
A. In the sense that the senior pumper has the threat of being curtailed	17	be to - very cautious with that cup, I see. The
<ul> <li>A. In the sense that the senior pumper has the threat of being curtailed</li> <li>Q. Junior. Junior pumper.</li> </ul>	17 18 19	be to very cautious with that cup, I see. The long-term benefit would be to bring the aquifer to
<ul> <li>A. In the sense that the senior pumper has the threat of being curtailed</li> <li>Q. Junior. Junior pumper.</li> <li>A. The junior pumper has the threat of</li> </ul>	17 18 19 20	be to very cautious with that cup, I see. The long-term benefit would be to bring the aquifer to an equilibrium. In the short term that may have
<ul> <li>A. In the sense that the senior pumper has the threat of being curtailed</li> <li>Q. Junior. Junior pumper.</li> <li>A. The junior pumper has the threat of being curtailed?</li> </ul>	17 18 19 20 21	be to very cautious with that cup, I see. The long-term benefit would be to bring the aquifer to an equilibrium. In the short term that may have some severe economic impacts in getting to that
<ul> <li>A. In the sense that the senior pumper has the threat of being curtailed</li> <li>Q. Junior. Junior pumper.</li> <li>A. The junior pumper has the threat of being curtailed?</li> <li>Q. That he seeks water to mitigate so he</li> </ul>	17 18 19 20 21 22	be to very cautious with that cup, I see. The long-term benefit would be to bring the aquifer to an equilibrium. In the short term that may have some severe economic impacts in getting to that long-term solution.
<ul> <li>A. In the sense that the senior pumper has the threat of being curtailed</li> <li>Q. Junior. Junior pumper.</li> <li>A. The junior pumper has the threat of being curtailed?</li> <li>Q. That he seeks water to mitigate so he can continue to farm. If his operation is more</li> </ul>	17 18 19 20 21 22 23	be to very cautious with that cup, I see. The long-term benefit would be to bring the aquifer to an equilibrium. In the short term that may have some severe economic impacts in getting to that long-term solution. So necessarily the possible short-term
<ul> <li>A. In the sense that the senior pumper has the threat of being curtailed</li> <li>Q. Junior. Junior pumper.</li> <li>A. The junior pumper has the threat of being curtailed?</li> <li>Q. That he seeks water to mitigate so he can continue to farm. If his operation is more profitable than the senior who owns the water,</li> </ul>	17 18 19 20 21 22 23 24	be to very cautious with that cup, I see. The long-term benefit would be to bring the aquifer to an equilibrium. In the short term that may have some severe economic impacts in getting to that long-term solution. So necessarily the possible short-term outcomes could be different than the long-term
<ul> <li>A. In the sense that the senior pumper has the threat of being curtailed</li> <li>Q. Junior. Junior pumper.</li> <li>A. The junior pumper has the threat of being curtailed?</li> <li>Q. That he seeks water to mitigate so he can continue to farm. If his operation is more</li> </ul>	17 18 19 20 21 22 23 24 25	be to very cautious with that cup, I see. The long-term benefit would be to bring the aquifer to an equilibrium. In the short term that may have some severe economic impacts in getting to that long-term solution. So necessarily the possible short-term outcomes could be different than the long-term outcome. The short-term outcome could be very
	<ul> <li>reduce demand on the aquifer?</li> <li>A. Restate your position again. In terms of senior pumper paying junior pumper. Why?</li> <li>Q. Not to pump, so that the senior pumper would mitigate the use that he's going to make of the aquifer and he would continue to pump.</li> <li>A. So the amount that the senior pumper is pumping has not changed?</li> <li>Q. But the junior pumper no longer pumps, or vice versa, depending on which one.</li> <li>A. In other words, you effectively cut pumping from the aquifer?</li> <li>Q. Correct.</li> <li>A. Okay.</li> <li>Q. So wouldn't that reduce demand on the aquifer?</li> <li>A. That's correct, if you cut pumping from the aquifer?</li> <li>Q. And as a rational economic being, to make that decision, the junior user would have to decide that it's economically feasible for him to do that, and the senior user who would give up his senior rights to let the junior user mitigate would have to go through the same economic process?</li> <li>A. Right.</li> </ul> Page 38 Q. So the water would move to the most effective use for profitability, as it does in all markets? <ul> <li>A. Is the curtailment of pumping valued correctly? I mean taking less out of the aquifer.</li> <li>Q. Well, I'm just looking at it as two farmers: One junior user is threatened to pump and he's found a senior user who's willing to sell so he can mitigate and continue to pump. As rational economic beings, it would move to the most profitable use? I mean, isn't that the assumption in the market, it would move to the most profitable use? A. So the – doesn't quite fit with me. I'm sory.</li></ul>	reduce demand on the aquifer?  A. Restate your position again. In terms of senior pumper paying junior pumper. Why?  Q. Not to pump, so that the senior pumper 4 would mitigate the use that he's going to make of the aquifer and he would continue to pump. A. So the amount that the senior pumper is pumping has not changed?  Q. But the junior pumper no longer pumps, or vice versa, depending on which one.  A. In other words, you effectively cut pumping from the aquifer?  Q. Correct.  A. Okay.  Q. And as a rational economic being, to make that decision, the junior user would have to decide that it's correct, if you cut pumping from the aquifer.  Q. And as a rational economic being, to make that decision, the junior user mitigate would have to go through the same economic process?  A. Right  Page 38  Q. So the water would move to the most effective use for profitability, as it does in all markets?  A. Is the curtailment of pumping valued correctly? I mean taking less out of the aquifer.  Q. Well, I'm just looking at it as two farmers: One junior user who's willing to sell so he can mitigate and continue to pump.  A. So the – doesn't quite fit with me.  Im sorry. Q. Okay.

negative initially, and that is close in time. The	1	increase the health of the aquifer, the curtailment
long-term outcome could be positive, but that is	2	scenario could ultimately overall result in a
very far out in time, in terms of values.	3	healthier Idaho economy?
Q. But even in the short term, I've never	4	A. In the long run.
seen any analysis done by anybody in this case that	5	MR. ARKOOSH: I'm going to take a little
	6	break.
	7	Is that okay?
	8	THE WITNESS: That's fine.
	9	(Recess.)
	10	Q. (BY MR. ARKOOSH): Before we took a
		break, we were talking about short term and long
		term.
		Would you tell me what those two terms
		mean to you, "short term" and "long term"?
		A. Well, short term is in a situation where
		you can change some inputs or some processes but not
		others, or not have a significant effect on others.
		Long term is where you could change
		practically everything. You could change in
		terms of a production plant, you could change the
		size of the plant. You could make it bigger.
		Necessarily, in the short term tomorrow you
assumption when we know or common sense tells us		couldn't.
there are a variety of other strategies out there	24	So like tomorrow or the next day, next
that people will pursue? Why do we limit ourselves	25	week, for example, Micron could not double its
Page 42		Page 44
to the assumption that everybody's just going to	1	output. But in the long term it could by building a
	2	bigger plant.
		In terms of this context for the water
	4	rights and the flows of the aquifer and economic
	5	
	-	benefits and costs, short term is essentially the
	1	immediate impacts.
	/	The long term is, "Well, what will it
	8	take to get those flows to that point that everyone
		is satisfied with or happy with." That's a
		long-term sort of thing, and it's somewhat uncertain
		as to how long that will be, but pretty well, I
agricultural economists and people who know the land	1	think, agreed it's going to be in the terms of a
and from the people who know the water that say	13	decade or decades.
these acres could grow this under that circumstance.	14	Q. So one irrigation season would be in the
Q. But, Mr. Church, they've only gone back	15	short term, given the way you're using it?
and said, "Well, we're going to revert those to dry	16	A. Short term, yes. Yes. And even two or
	17	three or four or five would be short term
	18	Q. Okay.
	1	
5		
	1	
	1	
	23	
O Ge airean that says an inht in another and all		
Q. So given that we might increase overall profitability on the aquifer and given that we might	24	
	<ul> <li>long-term outcome could be positive, but that is very far out in time, in terms of values.</li> <li>Q. But even in the short term, I've never seen any analysis done by anybody in this case that says if we maximize the efficient use of water by allowing the profitable enterprises to use the water, it would benefit the economy. I've never seen anybody do such an analysis. <ul> <li>Are you aware of such an analysis?</li> <li>A. No, I'm not.</li> </ul> </li> <li>Q. But really, that's what would happen; you would have to investigate the strategies people would employ in face of curtailment. You've addressed increased deficiencies, but the other strategy is actually going out and mitigating. <ul> <li>There's one strategy really contemplated by the conjunctive management rules nobody's really investigated, the economic effect of that, have they, that you're aware of?</li> <li>A. No, not that I'm aware of.</li> <li>Q. So why do we limit ourselves to the assumption when we know or common sense tells us there are a variety of other strategies out there that people will pursue? Why do we limit ourselves.</li> <li>Page 42</li> </ul> </li> <li>to the assumption that everybody's just going to curtail and that's going to be the effect on the economy? That's the most irrational, isn't it?</li> <li>A. Well, to an extent, I agree. There's a part that's missing. There are strategies. The Snyder/Coupal study essentially says they will be curtailed, but doesn't necessarily give them a zero value, "What can they do otherwise?" There is some of that built into it.</li> <li>There is some assumptions from the agricultural economists and people who know the land and from the people who know the water that say these acres could grow this under that circumstance.</li> <li>Q. But, Mr. Church, they've only gone back and said, "Well, we're going to revert those to dry farms, and that's the only economic benefit we're going to investigate. We're not going to talk about the mitigation effects."</li> </ul>	long-term outcome could be positive, but that is very far out in time, in terms of values.3Q. But even in the short term, I've never4seen any analysis done by anybody in this case that says if we maximize the efficient use of water by allowing the profitable enterprises to use the 

<ol> <li>you will realize some of the benefits of the call?</li> <li>A. The person who is</li> <li>Q. Calling.</li> <li>A calling the water, some, yes.</li> <li>Q. Okay.</li> <li>A. Although I will add from what I've seen</li> <li>O the hydrologic models, it's going to be very</li> <li>Minimal in the first year or two.</li> <li>Q. Well, to get to the long term, we're</li> <li>Q. Well, to get to the long term, we're</li> <li>Q. Well, to get to the long term, we're</li> <li>Q. Well, to get to the long term, we're</li> <li>Q. Well, to get to the long term, we're</li> <li>Q. Well have to start someplace, yes.</li> </ol>	eans more fish; oduction u came to the t surface water half an inch nch, which is an inch rather
<ul> <li>3 Q. Calling.</li> <li>4 A calling the water, some, yes.</li> <li>5 Q. Okay.</li> <li>6 A. Although I will add from what I've seen</li> <li>7 of the hydrologic models, it's going to be very</li> <li>8 minimal in the first year or two.</li> <li>9 Q. Well, to get to the long term, we're</li> <li>10 going to have to start with the short term.</li> <li>11 Do you agree with that?</li> <li>3 correct?</li> <li>4 A. I don't know the fish prostruction. I can't say.</li> <li>6 Q. Are you aware when you</li> <li>7 conclusion on the short term that</li> <li>8 projects are taking, for instance,</li> <li>9 rather than three-quarters of an in</li> <li>10 their usual duty of water, or half</li> <li>11 than five-eighths of an inch? Ar</li> </ul>	oduction u came to the t surface water half an inch nch, which is an inch rather
<ul> <li>A calling the water, some, yes.</li> <li>G. Okay.</li> <li>A. Although I will add from what I've seen</li> <li>7 of the hydrologic models, it's going to be very</li> <li>8 minimal in the first year or two.</li> <li>9 Q. Well, to get to the long term, we're</li> <li>10 going to have to start with the short term.</li> <li>11 Do you agree with that?</li> <li>4 A. I don't know the fish proposed for the short term that a project are taking, for instance, and the short term.</li> <li>9 A. Well, to get to the long term, we're</li> <li>10 going to have to start with the short term.</li> <li>11 Do you agree with that?</li> </ul>	u came to the t surface water half an inch nch, which is an inch rather
<ul> <li>5 Q. Okay.</li> <li>6 A. Although I will add from what I've seen</li> <li>7 of the hydrologic models, it's going to be very</li> <li>8 minimal in the first year or two.</li> <li>9 Q. Well, to get to the long term, we're</li> <li>10 going to have to start with the short term.</li> <li>11 Do you agree with that?</li> <li>5 function. I can't say.</li> <li>6 Q. Are you aware when you</li> <li>7 conclusion on the short term that</li> <li>8 projects are taking, for instance,</li> <li>9 rather than three-quarters of an in</li> <li>10 their usual duty of water, or half</li> <li>11 than five-eighths of an inch? Ar</li> </ul>	u came to the t surface water half an inch nch, which is an inch rather
<ul> <li>6 A. Although I will add from what I've seen</li> <li>7 of the hydrologic models, it's going to be very</li> <li>8 minimal in the first year or two.</li> <li>9 Q. Well, to get to the long term, we're</li> <li>10 going to have to start with the short term.</li> <li>11 Do you agree with that?</li> <li>6 Q. Are you aware when you</li> <li>7 conclusion on the short term that</li> <li>8 projects are taking, for instance,</li> <li>9 rather than three-quarters of an in</li> <li>10 their usual duty of water, or half</li> <li>11 than five-eighths of an inch? Ar</li> </ul>	t surface water half an inch nch, which is an inch rather
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<ul> <li>8 minimal in the first year or two.</li> <li>9 Q. Well, to get to the long term, we're</li> <li>10 going to have to start with the short term.</li> <li>11 Do you agree with that?</li> <li>8 projects are taking, for instance,</li> <li>9 rather than three-quarters of an in</li> <li>10 their usual duty of water, or half</li> <li>11 than five-eighths of an inch? Ar</li> </ul>	half an inch nch, which is an inch rather
9Q. Well, to get to the long term, we're9rather than three-quarters of an it10going to have to start with the short term.10their usual duty of water, or half11Do you agree with that?11then five-eighths of an inch? Ar	nch, which is an inch rather
10 going to have to start with the short term.10 their usual duty of water, or half11 Do you agree with that?10 their usual duty of water, or half11 than five-eighths of an inch? Ar	an inch rather
11 Do you agree with that? 11 than five-eighths of an inch? Ar	
	e you aware that
12 A. We'll have to start someplace, yes. 12 that's going on?	
13 Q. I mean, if curtailment would really 13 A. Uh-huh.	
14 happen, if the effect of curtailment, the fifth year 14 Q. And you have to have to	) answer "yes" or
15 has got to start with the first year; correct? 15 "no" audibly.	
16 A. That's correct. 16 A. Yes. Yes.	
17 Q. Okay. Let's talk about the short term 17 Q. Okay. So for these seni	or projects and
18 for the senior right now. 18 these senior fish farms, and ever	in the short term,
19 You know, I mean, you are not aware that 19 that have either self-curtailed the	eir use or were
20 American Falls Reservoir District No. 2 shut down in 20 forced to curtail their use, would	In't there be an
21 the middle of August when you did your review of the 21 economic benefit if we got started	ed in the
22 economic effects of a curtailment? 22 rehabilitation of the aquifer?	
23 A. No, I did not. 23 A. There would be an ecor	nomic benefit.
24 Q. Okay. 24 However, let me point out that t	here comes an
25 A. But my data essentially went up through 25 economic cost too. I mean, that	
Page 46	Page 48
	10 1
1 '93 in terms of - sorry, 2003 in terms of what I 1 analysis that was done by Snyde	-
2 Q. Are you aware that the fish farms in the 2 They are done for the fish farms in the 2 they that the grade for the fish farms in the 2 they that the grade for the fish farms in the 2 they that the grade for the fish farms in	
3 Thousand Springs area are not receiving their full 3 there that there are some benefit	
4 water right? 5 A Low ensure of that 5 maximum based in a maximum ba	
5A. I am aware of that.5positive benefits in a reasonable6O. Are you aware, for instance, that the6But there are some negative	
7 depth of the wells on the A & B project have gotten 7 along with it. And to the extent	
8 so deep that they can't, as a practical matter, 8 are some mitigation strategies the	
9 deepen them anymore and some of those wells are not 9 that will lessen the negatives. E	-
10 receiving the water?	
11 A. I'm not aware of that. 11 Q. Well, but no one's ever	
12 Q. Okay. Would that have any effect on 12 analysis about the mitigation str	
13 your analysis of the effects of the economy of 13 could be that overall for the stat	•
14 curtailment in the short term? 14 we really don't know this without	-
15 A. In the case of the A & B District, that 15 analysis but it could be all the	
16 would have an effect. I have looked at the fish 16 mitigated? I mean, if you put w	
17 farming operations, though, in particular. And 17 profitable uses for the economy	
18 while their flows are down and that's what they have 18 short term, you could avoid all t	the negative impacts
19 said, and it's very plausible, but in terms of value 19 on the state's economy?	at a line of the second
20 of output and output, it's not down. In terms of 20 A. Are you assuming the	water stays in the
21 fish production, U.S. Department of Agriculture says 21 state?	
22 fish production is up. 22 Q. Yes, I'm assuming all c	
23 Q. Overall maybe, but on a particular farm 23 equal. I'm just assuming that the	
24 suffering from lack of water? 24 it's effective as an order, and the	
25 A. Not on a particular farm, no. Overall. 25 rational beings so the juniors ca	n mitigate and the
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1	seniors have certainty in water supply.	1	been done. I have thought about it. I have never
2	Even in the short term, there could be	2	offered a comment on it. I have been charged to
3	an overall benefit to the state's economy?	3	look at these studies that have been completed,
4	A. If the water stays in the state, yes.	4	Coupal, Hazen, Hamilton, so on and so forth.
5	Q. Okay.	5	The analysis that you're asking about is
6	A. If you put it up to the highest bidder,	6	complex. It is time-consuming. You would
7	that may not necessarily be the case.	7	essentially have to ask a lot of people what their
8	Q. Well, there are and I know you're	8	strategy would be.
9	aware of this there are barriers to buying water	9	And I have found in the past that when
10	out of state. There are artificial legal barriers	10	you're asking questions about this particularly
11	to doing that.	11	sensitive subject water that you do not you
12	You're aware of those?	12	don't necessarily get the rational answer that you
13	A. Some of them, yes.	13	would in reality. Some people will react and just
14	Q. Okay. And there's one benefit we seem	14	knee-jerk react. "No, that will not happen," for
15	to I know he's talked about some benefits to the	15	example.
16	seniors. But there's one benefit that seems to be	16	So it would be sort of a focus group
17	hugely overlooked to me, and it's the uncertainty of	17	analysis with people that are being rational, not
18	not knowing whether you're going to have your water	18	necessarily espousing a point of view, but making a
19	supply or not.	19	rational economic decision, which could be difficult
20	Now, you would agree with me that that's	20	to set up, that framework. It's a complex framework
21	a pretty negative benefit for the state because you	21	and it's a complex problem and hasn't been explored.
22		22	Q. Are you aware that in the face of this
23	less-water-consumptive crops in your decision-making	23	call various junior users are out actually buying or
	process?	24	optioning water as a hedge against the contingency?
25	•	25	A. No. I am not.
	Page 50		Page 52
		2.5	1 490 02
1	some of them would undertake, yes.	1	Q. Are you aware of that?
2	Q. Well, you're almost forced to undertake	2	A. No, I'm not aware of that.
3	it, aren't you?	3	Q. But that would be a rational economic
4	A. Not necessarily.	4	behavior in your view, would it not?
5	Q. You could be irrational and gamble, I	5	A. Yes.
6	suppose.	6	Q. And you would expect to see it, I would
7	A. Sure. That's not irrational. People do	7	think?
8	it all the time.	8	A. Yes. The options, yes.
9		9	MS. McHUGH: You said "optioning" water?
10	you're going to have your water, wouldn't it, for	10	THE WITNESS: Option.
11	the economy of the senior user and ultimately the	11	MS. McHUGH: I thought you said "auctioning."
12	•	12	THE WITNESS: No.
13	A. More knowledge is always better, yes.	13	MR. ARKOOSH: Take a short break.
14		14	(Recess.)
15	A. But they will never have perfect	15	MR. ARKOOSH: Let's go back on the record.
16	•	16	Q. I just wanted to be clear that when you
17	Q. Do you know why no analysis has been	17	were discussing what I heard you say to be
18	made of what we'd really expect in the face of a	18	irrational answers, you were not talking about
19		19	
20	· · · · · · · · · · · · · · · · · · ·	20	
21		21	very difficult to gather information regarding what
22		22	
23	0	23	
24		24	the second se
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			And a state of the second s
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			the second se
1	Q. Right.	1	linkages that earnings have in that area and those
2	A. What they really will do will be a		industries have, but they're by and large going out
3	different scenario than what you would probably get	3	somewhere else and affecting the economy. And it
4	in a focus group asking them what they would do.	4	tries to identify what stays in an area and what
5	Q. Correct. Okay. And so when things like	5	doesn't stay in an area.
6	this happen I mean, you look at something like	6	Q. How does one physically perform such an
7	the director sends out a threat of curtailment or he	7	analysis? Do you use spreadsheets or
8	sends out an actual curtailment order obviously	8	A. Well, it is a matrix that is essentially
9	there's a certain amount of panic by those affected.	9	mined from a massive amount of data that the federal
10	But as with all of these things, the	10	government gathers on business activity, things
11	rational economic being goes from panic to planning,	11	called "value-added surveys." In fact, I did one of
12	I'm assuming; is that correct?	12	those for Idaho Power quite a few years ago. It was
13	A. That would be correct.	13	an industry census that, you know, as required by
14	Q. And you're worried if you did a study,	14	law, you must fill out this form.
15	you'd get the panic answer rather than the planning	15	And they essentially define what inputs
16	answer; is that right?	16	you buy, where you buy them from, and what you
17	A. That's correct. I think that from my	17	produce and what you sell it for and where do you
18	experience with dealing with people involved with	18	sell it and who do you sell it to to identify those
19	water that it's usually not a rational answer that	19	linkages.
20	you get.	20	Q. What do you think of those kind of
21	Q. Okay. But farmers, in terms of	21	modeling processes? You've performed one for Idaho
22	obtaining and using water, are going to be very	22	Power. Was that for the state economy?
23	rational, are they not?	23	A. That was not an input/output model. An
24		24	
	react with a knee-jerk reaction sometimes, but they	25	O. Okav.
	Page 54		Page 56
		ł	
1	are rational.	1	A. It is an analysis of "If you did this,
2	Q. Okay. I want to ask you a few questions	2	this effect would happen." So in regards to if I
3	to educate me.	3	were to open up a production plant in Boise, hire
4	What is an input/output analysis?	4	500 people, have a payroll of \$15 million, buy these
5	A. It's essentially a model that links	5	kind of inputs, this would predict the impacts upon
6	sectors of the economy and through a complex process	6	other sectors of the economy and essentially that
7	says, "This sector has this effect on these other	7	multiplicative effect that that new plant would have
8	sectors."	8	on the local economy.
9	So in the legal services industry	9	What I did for Idaho Power, and what I
10	category, it earns income, and where does it a	10	still do for a lot of clients and Idaho Power
11	acquire goods and services that it uses. So it	11	included, is I do time-series analysis. I do
12	hires people. It uses electricity. It rents office	12	forecasting of the future. So I'm forecasting
13	space. Those linkages are identified through an	13	employment by category: population, number of
14	input/output analysis.	14	households, translates to residential customers,
15	To the extent that they link within a	15	personal income by county, by their service
16	local economy now, necessarily the United States	16	territory, and by the state.
17	economy is pretty well self-contained. There's a	17	Q. So an input and output analysis is sort
18	lot of stuff goes across borders. But an	18	of a snapshot; fair to say?
19	input/output analysis is going to capture most of	19	A. Fair to say.
20		20	
21		21	modeling you're doing over time is sort of more like
22		22	
	on the caller manay it jou get to		
23		23	
		23 24	time; is that right?
24	Challis, Idaho, for example, money spent there,	1	time; is that right? A. Right. It's a predictive model of

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1	Q. Has anybody ever done, to your	1	That's not going out and mitigating by
2	knowledge, such a prediction of what would happen in	2	getting water to replace the water you're going to
3	the event that we started managing this aquifer and	3	use, that's just using the assets you have
	turned it into what we earlier defined as a healthy	4	remaining?
5	aquifer? Has anybody ever done that work?	5	A. It's not a water mitigation strategy.
6	A. Not that I know.	6	It's an economic mitigation strategy.
7	Q. Isn't that really the relevant inquiry	7	Q. What is a production function in an
8	for the state's economy? We're going to be a few	8	input/output model?
9	years into the future rather than this snapshot	9	A. It's a model of inputs that come into a
	we've tried to take here?	10	particular production of a product and how those
1	A. Well, you've taken essentially 30	11	inputs are combined. So you to result in an
2	snapshots in the Snyder model. It goes out 30	12	output.
3	years. So essentially it's taking this state, this	13	Q. Well, getting to this question is why I
4	state, this state, and looking at it in a excuse	14	asked for that definition, because has the
5	me, 30 year snapshots into the future.	15	input/output model in the Snyder/Coupal report used
6	So in that regard, he has a similar	16	the same production function for alfalfa grown by
7		17	
	to what you have in a motion picture animation – is	18	ground water pumpers as it has for alfalfa grown by surface water users?
8	a flip chart of here's the impacts over time by a		
9	series of snapshots.	19	A. Is that a question?
20	Does it look at the whole economy? No.	20	Q. Yes. Has it done that?
21	It's really focused on those three sectors that they	21	A. Did it use
	were charged to look at.	22	Q. Use the same production functions for
23	Q. And does it include how rational people	23	those two groups for alfalfa.
	really will act in the face a curtailment order?	24	A. I don't know.
25	Probably not; is that correct? Let me restate the	25	Q. Okay. Tell me what you know about the
	Page 58	1.5	Page 60
1	question.	1	CREP program.
2	As we discussed, isn't the underlying	2	A. The what?
3	assumption people just shut off and that's that?	3	Q. The CREP program.
· ·		1	
4	A No I don't believe that's the	4	A The agricultural set-aside program?
4 5	A. No. I don't believe that's the	4	A. The agricultural set-aside program?
5	underlying assumption. There are strategies between	5	Q. Yes.
5 6	underlying assumption. There are strategies between their assumption, which I said earlier is something	5 6	Q. Yes. A. Very little.
5 6 7	underlying assumption. There are strategies between their assumption, which I said earlier is something greater than zero, which I would say would be the	5 6 7	<ul><li>Q. Yes.</li><li>A. Very little.</li><li>Q. Okay. Do you know why nobody is signing</li></ul>
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5 6 7 8 9	underlying assumption. There are strategies between their assumption, which I said earlier is something greater than zero, which I would say would be the complete shutoff scenario. It's greater than zero, but there's something in here that could be	5 6 7 8 9	<ul> <li>Q. Yes.</li> <li>A. Very little.</li> <li>Q. Okay. Do you know why nobody is signing up?</li> <li>A. No.</li> </ul>
5 6 7 8 9	underlying assumption. There are strategies between their assumption, which I said earlier is something greater than zero, which I would say would be the complete shutoff scenario. It's greater than zero, but there's something in here that could be mitigated. They didn't go to the complete extent of	5 6 7 8 9 10	<ul> <li>Q. Yes.</li> <li>A. Very little.</li> <li>Q. Okay. Do you know why nobody is signing up?</li> <li>A. No.</li> <li>Q. Okay. You've not investigated that?</li> </ul>
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			the second second second second second
	Q. So if I were to tell you that the orders	1	A. I'm aware of that.
	20 and 130 differ substantially from either one	2	Q fixing the aquifer.
3 of th	ose scenarios, do you know of anybody that's	3	A. Yes. I'm not aware of the specifics.
4 done	a correlation between what's actually proposed		But I'm aware that that's out there, yes.
5 by th	he department and what the Snyder/Coupal report	5	Q. Okay. In order to gauge the effects on
6 tries	to measure?	6	the state's economy of arriving at certain goals, do
7	A. I know of no one who has done that	7	you think it would be beneficial for the state's
8 study	y.	8	economy now I'm not talking about the various
9	Q. Wouldn't that be a relevant inquiry, in	9	individuals involved, but for the state's economy to
10 your	view?	10	make an assessment of one means of reaching a goal
	A. That would be a relevant inquiry, yes.	11	versus another means, if this CAMP process decides
	Q. Are you aware that there have been	12	the state should reach the various aquifer
	gation agreements entered as a result of orders	13	management goals?
	e 120 and the 130?	14	A. I think that there's, as you've said,
	A. I'm aware of mitigation agreements.	15	various different scenarios on how you could reach a
	Q. Which ones are you aware of?	16	goal, whatever goal you want to reach. And a
	A. Specifically, I can't state which ones	17	necessary part of that would be an evaluation of the
	aware of.	18	cost benefit in terms of the economics for the
	Q. Didn't the dairy people enter into a	19	overall economy
	gation agreement?	20	Q. So is this
	A. I'm not aware of that.	21	A in those processes and those
	Q. You're just aware that there are some	22	strategies.
		23	Q. So as an economist with your experience
	gation agreements out there? A. Yes.	1	in the state of Idaho, you would recommend to
			whoever is trying to reach those goals to take a
_25	Q. Is that what we talked about, that one	25	
	Page 62		Page 64
1 wou	ld expect that rational economic beings would go	1	look at the cost
	and seek to mitigate in the market?	2	A. Economic impacts of every scenario, yes.
	A. That's the process, yes.	3	Q. Okay. So that they really should look
	Q. Okay. When we push toward the long-term	4	at the economic impacts of a curtailment scenario
	of what I called a healthy aquifer or you could	5	versus the economic impacts of the various other
-	it equalizing the aquifer or you could call it	6	scenarios that flow through the CAMP process in
	ing demand equal supply, however you want to call	7	order to reach the goals they ultimately agree to?
	then we push towards that goal, are there	8	A. Yes.
	ous ways to get there that have varying costs?	9	Q. Okay.
	A. I imagine there are.	10	A. Let me add, it should be an economic
	Q. Okay. Let me give you an example of	11	impact analysis that looks at it, not just as a
		12	
	t I'm talking about.	1	snapshot at a point in time, though, but as an
13	Are you aware of the CAMP process that's	13	ongoing kind of projection, if you will, of impacts
-	oing?	14	over a longer period of time. Because in some cases
	A. No.	15	you're not going to see some impacts in the short
	Q. Okay.	16	run or they're going to be very negative or very
	A. It doesn't ring a bell.	17	positive, but it's going to be different in the long
	MS. McHUGH: Maybe the acronym is –	18	run.
19	THE WITNESS: Yeah.	19	So I think it really takes a longer-term
20	Q. (BY MR. ARKOOSH): It's an aquifer	20	
	agement plan. There's an effort by a lot of	21	picture is really kind of up to the goal that wants
21 man		1	
21 man 22 invo	olved parties to put together an aquifer	22	1 , 0
21 man 22 invo 23 man	olved parties to put together an aquifer nagement plan. And in that aquifer management	22 23	going to take by those educated guesses or
21 man 22 invo 23 man 24 plan	olved parties to put together an aquifer hagement plan. And in that aquifer management h, it includes the effort to find various goals		going to take by those educated guesses or
21 man 22 invo 23 man	olved parties to put together an aquifer hagement plan. And in that aquifer management h, it includes the effort to find various goals	23	going to take by those educated guesses or predictions of hydrologists and so on and so forth.

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	Page 65		Page 6
1	Q. So for the health of the state's	1	should be enlarged in terms of the scope, the
2	economy, really the relevant inquiry is the	2	sectors it looked at within the state economy?
	long-term inquiry; is that right?	3	A. Did I have the opportunity or did I take
4		1	
	A. The relevant inquiry is the long term,		the initiative?
	yes. However, the short-term costs may determine	5	Q. Either.
	someone's course of action. In other words, if the	6	A. I did not take the initiative to offer
	pain is too much, the long term may not be the goal	/	any suggestions as to widening the scope of the
	that anybody wants to reach.	8	study. And and I did realize that there are
9	Q. Okay. We've not established because	9	other sectors that should be examined. However, at
0	we've not really done - well, for the curtailment	10	that point the parameters of the study had been
1	scenario, for instance, we've not really done an	11	pretty well set. So I didn't go further.
	analysis of what people really will do. We've just	12	Q. As a part of your involvement with the
	made an assumption that everybody is going to shut	13	AG's office, I think your testimony was that you
	off their well and then go from there; is that	14	were not involved in any of the meetings with
	correct?	15	legislative leadership or the AG's office regarding
6	A. I believe you're correct. We haven't	16	
	The second se		the Snyder/Coupal study?
7	done an analysis of all the strategies that would be	17	A. Oh, I was in a meeting at IDWR where
	used.	18	legislators were there, the director was there,
9	MR. ARKOOSH: I believe Mr. Simpson has some	19	Snyder and Coupal were there, and many
0	inquiries.	20	representatives of the University of Idaho's
1	MR. SIMPSON: You believe? You can sit	21	Hydrology Water Resources Research Institute, so o
2	there. We haven't changed. Are you okay?	22	and so forth, were there.
3	(Discussion.)	23	But it was I'm trying to recall the
			context of that meeting. It was really a kind of
	III octava o taking a service weeks 200 milion of the service to the		"Let's all get together and here are your contacts
1	EXAMINATION	1	and things that you need to interface with other
2	BY MR. SIMPSON:	2	people about" sort of meeting.
3			
-	Q. Mr. Church, I guess we can go back on	3	Q. So in essence, that was bringing Snyder
4	Q. Mr. Church, I guess we can go back on the record under the presumption that that little	3	Q. So in essence, that was bringing Snyder and Coupal into the State arena, if you will, and
4	the record under the presumption that that little	345	and Coupal into the State arena, if you will, and
456	the record under the presumption that that little dissertation by Mr. Arkoosh was not on the record.	3 4 5 6	and Coupal into the State arena, if you will, and identifying if you had hydrology questions, that's
4567	the record under the presumption that that little dissertation by Mr. Arkoosh was not on the record. Mr. Church, my name is John Simpson.	3 4 5 6 7	and Coupal into the State arena, if you will, and identifying if you had hydrology questions, that's who they would contact; if you had economic
6 7	the record under the presumption that that little dissertation by Mr. Arkoosh was not on the record. Mr. Church, my name is John Simpson. And I represent various surface and spring water	7	and Coupal into the State arena, if you will, and identifying if you had hydrology questions, that's who they would contact; if you had economic questions, here's where you go, so on and so forth?
6 7 8	the record under the presumption that that little dissertation by Mr. Arkoosh was not on the record. Mr. Church, my name is John Simpson. And I represent various surface and spring water users throughout the reaches of the Snake River, and	7 8	and Coupal into the State arena, if you will, and identifying if you had hydrology questions, that's who they would contact; if you had economic questions, here's where you go, so on and so forth? A. Yes. It was establishing the linkages.
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	and the second se		
1	A. Not at the meetings, no. I don't recall		to me in relationship to valuation of crops that
2	any documents. And I've really gotten out of the		could be curtailed or lessened. I had meetings
3	habit of taking notes at meetings. It's usually all		concerning some of the preliminary work I had done
4	up here.		on fiscal impact analysis.
5	Q. Good habit.	5	But as far as the input/output analysis
6	A. I learned that at Idaho Power. From	6	that Coupal and Snyder performed, I don't recall any
7	attorneys, as a matter of fact.	7	other meetings that I was involved, and that process
8	Q. Do you recall if at that meeting the	8	went on went on without my active inputs. And
9	scope of their study was further refined or was it	9	for a period of time while that was going on, I was
10	explained by any of the individuals at that meeting	10	off doing other consulting projects, because I had a
11	to them: legislators, department officials, AG's	11	gap there in terms of I needed inputs from that to
12	office, or anyone else?	12	do my fiscal impact analysis.
13	A. I I really don't recall, period. I	13	Q. Just so I'm clear, your testimony today
14	mean, further refined? I don't recall. Scope	14	here is that you have no understanding regarding the
15	identified at that meeting? No, I don't recall. It	15	scope of the orders issued by the director either
16	may have been done afterwards. I really don't	16	with respect to the surface water call or the
17	recall.	17	Thousand Springs calls, and how those orders vary
18	Q. You indicated that the Coupal/Snyder	18	from the Coupal/Snyder report in terms of the
19	study was peer reviewed and you identified for	19	economic consequences they looked at?
20	Mr. Arkoosh that those individuals who peer reviewed	20	A. I have not reviewed those two orders and
21	that report were identified in the report; is that	21	the parameters that they have outlined in those
	your testimony?	22	orders, nor have I done any analysis or I know of
23	A. They're identified in that report and I	23	any analysis that compares that to the scenarios
	think there's some adjunct pieces of work that were	24	that Snyder and Coupal laid out in their report.
	referenced in that report, like in the bibliography	25	Q. So you could not offer opinions as to
	Page 70	Ly	Page 72
	Fage 70		Page 72
1	of that report, in terms of modeling the aquifer and	1	the validity of those scenarios offered by the
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2	flow impacts and things like that that were used as	2	
2	flow impacts and things like that that were used as a basis for the input/output analysis	2	Coupal/Snyder report in terms of their relevance to
3	a basis for the input/output analysis.	3	Coupal/Snyder report in terms of their relevance to the economic impact of the Blue Lakes order or the
3 4	a basis for the input/output analysis. Q. Okay. And if you need to refresh your	3 4	Coupal/Snyder report in terms of their relevance to the economic impact of the Blue Lakes order or the Clear Springs orders in 130?
3 4 5	a basis for the input/output analysis. Q. Okay. And if you need to refresh your recollection, you can refer back to that report as	3 4 5	Coupal/Snyder report in terms of their relevance to the economic impact of the Blue Lakes order or the Clear Springs orders in 130? A. No.
3 4 5 6	a basis for the input/output analysis. Q. Okay. And if you need to refresh your recollection, you can refer back to that report as to those individuals who did peer review and in what	3 4 5 6	Coupal/Snyder report in terms of their relevance to the economic impact of the Blue Lakes order or the Clear Springs orders in 130? A. No. Q. And likewise, you could not provide any
3 4 5 6 7	a basis for the input/output analysis. Q. Okay. And if you need to refresh your recollection, you can refer back to that report as to those individuals who did peer review and in what portions of the report and what expertise areas.	3 4 5 6 7	Coupal/Snyder report in terms of their relevance to the economic impact of the Blue Lakes order or the Clear Springs orders in 130? A. No. Q. And likewise, you could not provide any testimony with regard to the relevance of the
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	by the Coupal/Snyder report?	1	wrong you indicated that with respect to A & B
2	A. They would result in a different set of	2	that would be an analysis in terms of the impact
	economic impacts if there were mitigation measures.	3	with respect to the ground water availability to
4	Now, it doesn't necessarily mean that all of those	4	A & B, the ground water side; if truly they were not
5	economic impacts would be - you might still produce	5	able to acquire water relative to ag production on
6	more crop than what was perceived in the Snyder and	6	those lands, that should be considered in the short
7	Coupal study because some of it was mitigated.	7	term.
8	On the other hand, it might result in	8	Do you recall that testimony? Is that
9	lower incomes than what Snyder and Coupal have come	9	generally correct?
10	up with in terms of costs of mitigation, the	10	A. Yes, that's generally correct.
11	associated costs of doing business.	11	Q. Okay. And I think Mr. Arkoosh
12	Q. So there may be positive or negative	12	questioned you with respect to American Falls
13	impacts associated with those mitigation agreements,	13	Reservoir District No. 2. My question goes to your
14	but those were not analyzed in those reports?	14	statement regarding aquaculture facilities down
15	A. They were not, no.	15	there and the fact that the flows are down, but you
16	Q. Likewise, if there were other mitigation	16	indicated overall in the United States fish
17	agreements that were entered into or other	17	production is up.
18	alternatives to individuals being curtailed, those	18	Do you recall that testimony?
19	likewise would have relevance in determining the	19	A. I do recall. I don't believe I was
20	overall impact as studied by Coupal and Snyder or by	20	saying the United States. I was saying Idaho.
21	any other economist in their work in this case?	21	Q. Okay. So your testimony is you reviewed
22	A. Yes. Other mitigation agreements would	22	documents or information relative to fish production
23	have positive and negative effects that would result	23	
		1	in Idaho is up.
24	in a different set of economic effects than perhaps	24 25	, ,
23	is in this study or is in any other study.	23	
	Page 74	131	Page 76
1	Q. If you could, could you turn to your	1	Q. Okay. So the period 1997 to 2007?
2	prefiled expert testimony in the Blue Lakes delivery	2	A. '96 to 2006.
3	call/Clear Lakes delivery call case filed on	3	Q. And in terms of that fish production,
4	September 12th, 2007.	4	are there particular species that you're talking
5	A. Oh, okay.	5	about or just overall aquaculture production?
6	Q. Too many notebooks.	6	A. Trout.
7	A. Yes, too many notebooks.	7	Q. Trout production. And did you review
8	MS. McHUGH: I think I'll make a copy. It	8	any data with respect to either the Blue Lakes Trout
9	might be faster.	9	facility or the Clear Springs facilities regarding
10	MR. SIMPSON: Yes.	10	
11	(Recess.)	11	A. No, I did not.
12	Q. (BY MR. SIMPSON): Before we start, I	12	
13	just had a couple more questions on your testimony	13	
14	you provided Mr. Arkoosh.	14	
15	The first being: Do you recall your	15	
	testimony regarding that and he gave you examples	1	
16	IESTROUTY REVALUES THAT ADD DE VAVE VOU EXAMPLES	16	production either in terms of declining fish
16		17	DIOVIDENTIAL PROPERTY AND A DECUMPTOR DISP
17	such as American Falls Reservoir District No. 2 and	17	
17 18	such as American Falls Reservoir District No. 2 and the aquaculture rights in the Thousand Springs area	18	production or lost opportunities with respect to
17 18 19	such as American Falls Reservoir District No. 2 and the aquaculture rights in the Thousand Springs area and A & B — the impact today if their supplies are	18 19	production or lost opportunities with respect to fish production relative to the availability of
17 18 19 20	such as American Falls Reservoir District No. 2 and the aquaculture rights in the Thousand Springs area and A & B the impact today if their supplies are not sufficient to meet either their production needs	18 19 20	production or lost opportunities with respect to fish production relative to the availability of flows would be relevant in terms of your overall
17 18 19 20 21	such as American Falls Reservoir District No. 2 and the aquaculture rights in the Thousand Springs area and A & B — the impact today if their supplies are not sufficient to meet either their production needs in terms of ground water pumping or their surface	18 19 20 21	production or lost opportunities with respect to fish production relative to the availability of flows would be relevant in terms of your overall economic analysis?
17 18 19 20 21 22	such as American Falls Reservoir District No. 2 and the aquaculture rights in the Thousand Springs area and A & B — the impact today if their supplies are not sufficient to meet either their production needs in terms of ground water pumping or their surface water deliveries to them.	18 19 20 21 22	production or lost opportunities with respect to fish production relative to the availability of flows would be relevant in terms of your overall economic analysis? A. If a particular farm or operation losing
17 18 19 20 21 22 23	such as American Falls Reservoir District No. 2 and the aquaculture rights in the Thousand Springs area and A & B the impact today if their supplies are not sufficient to meet either their production needs in terms of ground water pumping or their surface water deliveries to them. Do you recall that testimony?	18 19 20 21 22 23	production or lost opportunities with respect to fish production relative to the availability of flows would be relevant in terms of your overall economic analysis? A. If a particular farm or operation losing water is relevant?
17 18 19 20 21 22	such as American Falls Reservoir District No. 2 and the aquaculture rights in the Thousand Springs area and A & B the impact today if their supplies are not sufficient to meet either their production needs in terms of ground water pumping or their surface water deliveries to them. Do you recall that testimony? A. Yes.	18 19 20 21 22	<ul> <li>production or lost opportunities with respect to fish production relative to the availability of</li> <li>flows would be relevant in terms of your overall economic analysis?</li> <li>A. If a particular farm or operation losing</li> <li>water is relevant?</li> <li>Q. Right.</li> </ul>

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<ul> <li>2 analyzed fish production relative to the state of</li> <li>3 Idaho and whether fish production is up or down.</li> <li>4 Do you think it's also relevant in terms</li> <li>5 of whether an individual facility or facilities are</li> <li>6 not able to produce at productive levels given</li> <li>7 spring flow declines in a particular reach?</li> <li>8 A. Well, it's relevant. But the causation</li> <li>9 may not be necessarily what we might think. It</li> <li>10 might not be because of that. I'm just thinking</li> <li>11 there could be many causes for something to occur.</li> <li>12 Q. Okay. And my question goes towards the</li> <li>2 A. No, I'm not aware of the market.</li> <li>3 Q. Do you think that the loss of market</li> <li>4 opportunities would be relevant in consideration of</li> <li>5 an economic analysis associated with southeastern</li> <li>6 Idaho relative to ground water pumping and spring</li> <li>7 water uses?</li> <li>8 A. If that were the causation. There may</li> <li>9 be a whole bunch of things that would influence the</li> <li>10 market and the access to the market and the</li> <li>11 availability of a market that would have to be</li> <li>12 identified. Whether that is all associated with</li> </ul>				the second s
<ul> <li>J Idaha and whether fish production is up or down. Do you think it's also relevant in consideration of a reconsumptive?</li> <li>A. Well, it's relevant in a particular reach?</li> <li>A. Well, it's relevant in a particular reach?</li> <li>A. Well, it's relevant in a particular reach?</li> <li>A. Well, it's relevant in uth causation</li> <li>I there could be many causes for something to occur.</li> <li>Q. Okay. And my question goes towards the is use of Coupal - that the Coupal and Snyder report</li> <li>I do you think that economic analysis some analysis</li> <li>I there could be many causes for something to occur.</li> <li>Q. Okay. And my question goes towards the is the south central Idaho economy - and the is the south central Idaho economic analysis is product that the regional economy, if you will - that</li> <li>I boyou think that economic analysis on ground water pumping, on surface water ingates on ground water pumping versus a 21 surface water ingator or ground water pumping poputative such as a ground water pumping versus a 22 wirstus a spring water user? Would that analysis be 23 applicable here?</li> <li>A. Alort think it would be. I don't 25 think you'd get the causation or the correlations to 29 Q. Akay. Do you think it's relevant that 30 which the water that's gurged out of the ground, a 41 mortion analysis that way.</li> <li>Q. Okay. Du you think it's relevant that 30 which the water is totally consumed, do you 41 that should be considered, yes.</li> <li>Q. As opposed to ground water pumping, 41 which that vater is totally consumed, do you 42 think that's relevant in water suces.</li> <li>A. Well, yes, that's relevant in thereson of water consumed by a 31 ground water pumper, does that water leave the 32 applicable water is consumed to to. So that's 32 relevant is o.</li> <li>Q. As opposed to consumed to b.</li> <li>G. An dia is that a phrase that you developed 33 constraice water is consumed to b.</li> <li>Make a good analysis of ground water pumping, 32 what ha that a phrase that you</li></ul>	1	Q. So my question goes towards you've		aquaculture products?
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<ul> <li>13 economic analysis of ground water pumping to aquaculture?</li> <li>14 aquaculture?</li> <li>15 A. Well, yes, that's relevant. But then also surface water is consumed too. So that's relevant too.</li> <li>16 A. I believe is actually in some rules of</li> <li>17 relevant too.</li> <li>18 Q. So in terms of water consumed by a ground water pumper, does that water leave the</li> <li>20 state?</li> <li>21 A. Does it leave the state? Eventually, yes, it does, John. But no.</li> <li>23 Q. Are you aware of sensitivities</li> <li>24 associated with the aquaculture market in terms of</li> <li>13 it in documents provided to you?</li> <li>14 A. "Full economic development"?</li> <li>15 Q. Yes.</li> <li>16 A. I believe is actually in some rules of</li> <li>17 the Department of Water Resources.</li> <li>18 Q. And did you review those rules prior to</li> <li>19 developing your opinions?</li> <li>20 A. Many, many months ago, yes.</li> <li>21 Q. I'd like for you to look at Exhibit 37,</li> <li>22 if you would, please.</li> <li>23 A. 37.</li> <li>24 Q. I believe Exhibit 37 are the conjunctive</li> </ul>				
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<ul> <li>22 yes, it does, John. But no.</li> <li>23 Q. Are you aware of sensitivities</li> <li>24 associated with the aquaculture market in terms of</li> <li>22 if you would, please.</li> <li>23 A. 37.</li> <li>24 Q. I believe Exhibit 37 are the conjunctive</li> </ul>			1	
23Q. Are you aware of sensitivities23A. 37.24associated with the aquaculture market in terms of24Q. I believe Exhibit 37 are the conjunctive		······································		
24 associated with the aquaculture market in terms of 24 Q. I believe Exhibit 37 are the conjunctive			1	
		C. 11- Jon and of bolinter 100	1	
23 opportunities for production and marketing of 123 management rules?	-	· · · · · · · · · · · · · · · · · · ·		
(208) 345-9611 M & M COURT REPORTING SERVICE, INC. (208) 345-8800 (fa	(20	18) 345-9611 M & M COURT REPO	RTI	NG SERVICE, INC. (208) 345-8800 (fax)

1 A. Uh-huh.	1 When I went to college here at Boise
2 Q. And are those the rules that	
3 at prior to developing your opinions	3 degree and I was cleaning surgery rooms, not to
4 A. Yes.	4 mention I had two people that also had degrees
5 Q. And on page 3 of those rule	
6 A. Rule 7.	6 and one with a Ph.D. was cleaning surgery rooms.
7 Q. It states, "The full economi	7 Now, that is economic inefficiency. Highest and
8 development of the underground res	
9 Is this the rule by which you	
10 this concept of full economic develo	
· · · · · · · · · · · · · · · · · · ·	
8-1	
12 "full economic development," yes.	12 appropriated. It doesn't necessarily mean that is
13 Q. And in developing your de	
14 did you consult or consider any othe	
15 other than the rules that you have in	
16 A. No.	16 water rights, reallocation could be accomplished
17 Q. Did you talk to anyone abo	t what that 17 through the transfer or the sale and purchase of
18 definition should	18 water rights
19 A. Encompass?	19 A. Partially.
20 Q. Yes.	20 Q. – in terms of demand?
21 A. No, nor was I specifically	
22 what was meant by it. It was kind of	
23 efficiency argument. Economic eff	
24 situation where you can allocate so	
25 the highest level of output. You ca	
	Page 82 Page 84
14 300	
1 it in another way without losing som	output. So 1 through a water right transfer which is an
2 full economic development is econo	
3 that regard.	3 analyze whether or not such a transfer of the water
4 Q. Okay. So would it be true	
5 resource was fully appropriated or f	
6 that you've reached full economic d	
7 that resource?	7 But what I'm saying is there may be a physical
8 A. No. It may be inappropriate	
9 and it may be overappropriated.	9 Q. And when we say "physical"
12 resource and there's not a sufficient	
13 resource to satisfy those water right	
14 economic development occur, short	
15 through the water right transfer pro	
16 example, or sale and purchase of w	
17 A. Just because you have the	
18 appropriated doesn't necessarily me	
19 reaching its highest and best use or	he use that 19 might occur also through what Mr. Arkoosh described
20 would produce the most in the ecor	my. 20 was the mitigation process where a junior might buy
21 And I may give an example	as I 21 out a senior or, you know, the free-market process
22 mentioned earlier to the to the co	
23 here that and this is just an examp	
24 people that or things that are not	
25 and best use.	25 economic development, yes.
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1	Now, again, I'm going to come up with		aspects of full economic development as you've
2	short term and long term, though. In the short term	2	testified here today?
3	you may be moving towards that ideal that would be	3	A. Could you restate that again, please,
4	full economic development; however, this doesn't	4	John?
5	give a time frame for this. And so in the short	5	Q. Well, in your report you identify that a
6	term, you are definitely out of full economic	6	planning process should be part of a management
7	development in some cases. I mean, you're just	7	program and you've testified here today regarding
8	going to be. Some negatives will occur and some	8	your general understanding of the aquifer
9	positives will occur. Studies like Snyder's and	9	management - Eastern Snake Plain Aquifer management
10	Coupal's says there's more negatives than positives	10	planning process.
11	in the short term.	11	Would you consider that that planning
12	Q. Well, at the same time, you're moving	12	process should consider the items you have
13	towards full economic development through that	13	identified with respect to full economic
14	process of reallocation where the water's bought and	14	development; that is, moving the resource to its
15	sold and transferred through that process?	15	fullest and best use and how you reallocate that
16	A. You're moving toward more economic	16	through transfers, through mitigation, through the
17	greater economic efficiency. This doesn't give a	17	free market process?
18		18	A. Oh, yes. Essentially that's what
	time frame for full economic development.		
19	Q. Right. Were there any other rules	19	Mr. Arkoosh asked me. That mitigation process and
20	within the Exhibit 37 that you reviewed as part of	20	the processes that you go through hasn't been
21	your background in forming your opinions in this	21	identified. And in practicality, those processes
22	case? Do you recall?	22	and all those scenarios that could be undertaken to
23	A. No, I don't believe there was.	23	mitigate should be explored.
24	Q. In particular, just that one rule that	24	On the other hand, if you can get a
_25	we've been talking about?	25	rational answer or an answer that really reflects
	Page 86		Page 88
1	A Ves That was kind of my guiding light	1	what they would do under those circumstances
1	A. Yes. That was kind of my guiding light	1	what they would do under those circumstances,
1 2 3	as to full economic impacts.	1 2 3	perhaps, is another problem.
1 2 3	as to full economic impacts. Q. Okay. Don't put away your report yet,	3	perhaps, is another problem. Q. Okay. On page 7 of your report,
3 4	as to full economic impacts. Q. Okay. Don't put away your report yet, please. Just a number of the questions I have.	3 4	perhaps, is another problem. Q. Okay. On page 7 of your report, starting on line 9, you make the statement, "A
3 4 5	as to full economic impacts. Q. Okay. Don't put away your report yet, please. Just a number of the questions I have. A. This is your exhibits.	3 4 5	perhaps, is another problem. Q. Okay. On page 7 of your report, starting on line 9, you make the statement, "A ground water curtailment program, if implemented
3 4 5 6	<ul> <li>as to full economic impacts.</li> <li>Q. Okay. Don't put away your report yet,</li> <li>please. Just a number of the questions I have.</li> <li>A. This is your exhibits.</li> <li>Q. Okay. On page 6 of your report</li> </ul>	3 4 5 6	perhaps, is another problem. Q. Okay. On page 7 of your report, starting on line 9, you make the statement, "A ground water curtailment program, if implemented today, would not result in a turnaround in
3 4 5 6 7	<ul> <li>as to full economic impacts.</li> <li>Q. Okay. Don't put away your report yet,</li> <li>please. Just a number of the questions I have.</li> <li>A. This is your exhibits.</li> <li>Q. Okay. On page 6 of your report</li> <li>A. Yes.</li> </ul>	3 4 5 6 7	perhaps, is another problem. Q. Okay. On page 7 of your report, starting on line 9, you make the statement, "A ground water curtailment program, if implemented today, would not result in a turnaround in availability of surface or spring water tomorrow or
3 4 5 6 7 8	<ul> <li>as to full economic impacts.</li> <li>Q. Okay. Don't put away your report yet, please. Just a number of the questions I have.</li> <li>A. This is your exhibits.</li> <li>Q. Okay. On page 6 of your report</li> <li>A. Yes.</li> <li>Q on line 16, you identify spring</li> </ul>	3 4 5 6 7 8	perhaps, is another problem. Q. Okay. On page 7 of your report, starting on line 9, you make the statement, "A ground water curtailment program, if implemented today, would not result in a turnaround in availability of surface or spring water tomorrow or next year."
3 4 5 6 7 8 9	<ul> <li>as to full economic impacts.</li> <li>Q. Okay. Don't put away your report yet,</li> <li>please. Just a number of the questions I have.</li> <li>A. This is your exhibits.</li> <li>Q. Okay. On page 6 of your report</li> <li>A. Yes.</li> <li>Q on line 16, you identify spring users.</li> </ul>	3 4 5 6 7 8 9	perhaps, is another problem. Q. Okay. On page 7 of your report, starting on line 9, you make the statement, "A ground water curtailment program, if implemented today, would not result in a turnaround in availability of surface or spring water tomorrow or next year." What's your basis for making that
3 4 5 6 7 8 9 10	<ul> <li>as to full economic impacts.</li> <li>Q. Okay. Don't put away your report yet, please. Just a number of the questions I have.</li> <li>A. This is your exhibits.</li> <li>Q. Okay. On page 6 of your report</li> <li>A. Yes.</li> <li>Q on line 16, you identify spring users.</li> <li>Can you define what you mean by a</li> </ul>	3 4 5 6 7 8 9 10	perhaps, is another problem. Q. Okay. On page 7 of your report, starting on line 9, you make the statement, "A ground water curtailment program, if implemented today, would not result in a turnaround in availability of surface or spring water tomorrow or next year." What's your basis for making that statement?
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1			
1	Plain, that there would be amounts accruing in the	1 drought that one of the possibilities of curtailme	nt
2	reaches of the Snake River below Milner and in	2 could be that it would enhance spring flows. Bu	
3	springs associated with spring water rights, senior	3 said it was really not assessable because of the	6 F
4	spring water rights, and that water would be put to	4 time lags involved.	
5	beneficial use, would that change the opinions that	5 Q. But that's obviously a 1977 study done	
6	you've identified in your report?	6 by Dr. Hamilton prior to the development of the	
7	A. It's a matter of time frame. What I'm	7 ground water model, a tool that's available for the	
8	referencing here is the time frame of those	8 State?	ic
9	increases. Those increases undoubtedly would be	9 A. Prior to the sophistication of these	
10	there in the long run, not necessarily in the short	10 ground water models, yes.	
11	run.	,,,,,,	
12	Q. So if those increases were there next	C. c	
13			ц,
	year as a result of curtailment occurring on the	13 is that curtailing ground water rights out on the	n
14	plain, would those increases change some of the	14 plain would not yield increased flows in the spr	ings
15	opinions that you've generated in your report?	15 in the short term, as you've described it? It's	
16	A. In terms of full economic development?	16 more of a long-term perspective?	
17	No.	17 A. It's a long-term perspective.	
18	Q. In terms of moving towards full economic	18 Q. On the same page, page 7, beginning o	n
19	development?	19 line 20, you make the statement, "Finally an	
20	A. In terms of moving towards full economic	20 approach that is consistent with the State polici	
21	development? Perhaps. It depends on if we're	21 of optimizing or maximizing beneficial uses of	the
22	talking about water moving to its best use and	22 State's water resources."	
23	highest use, it doesn't necessarily mean that it	23 Do you see that statement?	
	runs out the springs as the best use or the highest	24 A. Yes. Yes.	
25	use.	25 Q. What State policies were you referring	
	Page 90	Pag	e 92
	2011		
1	Q. In terms of water delivery to a property	1 to when you made this statement?	
2	right holder, a water right holder, and them putting	2 A. Well, that full economic development	
3	that water to beneficial use, should that be	3 policy is consistent with State policies of	
4	considered as part of your opinions if that water	4 optimizing or maximizing beneficial uses. And	wha
			VALIC
5	were to appear next year and they could put that		VAIIC
5 6	were to appear next year and they could put that water to beneficial use?	5 I'm referring to there in my context here, the	
-	water to beneficial use?	<ul><li>5 I'm referring to there in my context here, the</li><li>6 statement is that economic efficiency, that ideal</li></ul>	of
6 7	<ul><li>water to beneficial use?</li><li>A. If that water were to appear next year,</li></ul>	<ul> <li>5 I'm referring to there in my context here, the</li> <li>6 statement is that economic efficiency, that ideal</li> <li>7 allocating this sort of produces the most efficient</li> </ul>	of
6 7 8	<ul><li>water to beneficial use?</li><li>A. If that water were to appear next year,</li><li>it would be miraculous that you could cut off water</li></ul>	<ul> <li>5 I'm referring to there in my context here, the</li> <li>6 statement is that economic efficiency, that ideal</li> <li>7 allocating this sort of produces the most efficien</li> <li>8 level of output, highest level of output.</li> </ul>	of
6 7 8 9	<ul><li>water to beneficial use?</li><li>A. If that water were to appear next year,</li><li>it would be miraculous that you could cut off water</li><li>in terms of pumping and have it show up at the</li></ul>	<ul> <li>5 I'm referring to there in my context here, the</li> <li>6 statement is that economic efficiency, that ideal</li> <li>7 allocating this sort of produces the most efficient</li> <li>8 level of output, highest level of output.</li> <li>9 Q. So again, this refers back to that rule</li> </ul>	of nt
6 7 8 9 10	water to beneficial use? A. If that water were to appear next year, it would be miraculous that you could cut off water in terms of pumping and have it show up at the springs.	<ul> <li>5 I'm referring to there in my context here, the</li> <li>6 statement is that economic efficiency, that ideal</li> <li>7 allocating this sort of produces the most efficient</li> <li>8 level of output, highest level of output.</li> <li>9 Q. So again, this refers back to that rule</li> <li>10 that we identified in the conjunctive management</li> </ul>	of nt nt
6 7 8 9 10	water to beneficial use? A. If that water were to appear next year, it would be miraculous that you could cut off water in terms of pumping and have it show up at the springs. However, if it were used beneficially,	<ul> <li>5 I'm referring to there in my context here, the</li> <li>6 statement is that economic efficiency, that ideal</li> <li>7 allocating this sort of produces the most efficient</li> <li>8 level of output, highest level of output.</li> <li>9 Q. So again, this refers back to that rule</li> <li>10 that we identified in the conjunctive management</li> <li>11 rules that you reviewed as part of your generation</li> </ul>	of nt nt
6 7 9 10 11 12	<ul> <li>water to beneficial use?</li> <li>A. If that water were to appear next year, it would be miraculous that you could cut off water in terms of pumping and have it show up at the springs.</li> <li>However, if it were used beneficially, it would lessen the negative economic impacts that</li> </ul>	<ul> <li>5 I'm referring to there in my context here, the</li> <li>6 statement is that economic efficiency, that ideal</li> <li>7 allocating this sort of produces the most efficient</li> <li>8 level of output, highest level of output.</li> <li>9 Q. So again, this refers back to that rule</li> <li>10 that we identified in the conjunctive manageme</li> <li>11 rules that you reviewed as part of your generation</li> <li>12 of your opinions?</li> </ul>	of nt nt
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1	MR. SIMPSON: Back on the record.	1	aquifer going away, there are negative impacts?
2	Q. Just a couple more questions and then	2	A. Negative impacts, yes.
3	I'm done.	3	MR. SIMPSON: That's all the questions I
4	Would you agree that the predicate to	4	have.
5	market, as we've described it, which results in full	5	MR. MAY: I don't have any.
6	economic development is a property right having	6	MS. McHUGH: I just have a couple questions.
7	property rights in a tangible item or in a water	7	and the same of a provide state of the
8	right, for example, or a piece of real estate, which	8	EXAMINATION
9	is then subject to the market, allowing the	9	BY MS. McHUGH:
10	development of that right and perhaps the transfer	10	Q. The Snyder/Coupal report contains some
11	of that property right?	11	analyses and values the three sectors bad
12	A. A property right will provide the	12	question but places some values that are relevant
13	motivation for transfers, development, at higher	13	to the three sectors that the report analyzed; is
14	valuations.	14	that true?
15	Q. Ultimately, the fullest development of	15	A. That's true.
16	that right itself?	16	Q. Is it fair to say that you could use
17	•	17	those valuations and that information on those
	A. To the extent possible.		
18	Q. What would be the economic consequences	18	sectors to apply them to other curtailment priority
	if the water supply that is, the ESPA and overall	19	dates, for example?
20	11 2	20	MR. ARKOOSH: Object to the form.
21	to decline, what would be the economic consequences	21	MS. McHUGH: Okay.
22	on the relative sectors that, for example, are	22	THE WITNESS: Pardon me?
23	described in the Coupal/Snyder report?	23	Q. (BY MS. McHUGH): He objected to the
24	A. I really don't know that, John. I mean,	24	
25	what scenario would that be? How would that occur?	25	true.
	Page 94		Page 96
	and the second		
1	When would it occur? And if it continues to	1	MR. ARKOOSH: Merely a lawyer noise,
1 2	When would it occur? And if it continues to decline, at what rate? No, I don't know.	2	MR. ARKOOSH: Merely a lawyer noise, Mr. Church. You can go ahead and answer the
1 2 3			
	decline, at what rate? No, I don't know.	2	Mr. Church. You can go ahead and answer the
3	decline, at what rate? No, I don't know. Q. But would you agree that	23	Mr. Church. You can go ahead and answer the question.
3 4	<ul> <li>decline, at what rate? No, I don't know.</li> <li>Q. But would you agree that</li> <li>A. It would have an impact.</li> <li>Q continual decline would have an</li> </ul>	2 3 4	Mr. Church. You can go ahead and answer the question. THE WITNESS: Yeah. Q. (BY MS. McHUGH): So I can re-ask my
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1 been charged to do that myself, nor have I done 1 A. In relative magnitude between the 2 2 winning and losing sectors of the economy, those that. 3 3 But it could be used as a parameter or ones that are examined, I don't think it would 4 parameters to examine between those two priority 4 change the magnitude of them. It might lessen them. 5 dates, and maybe even up to the present: Here's 5 But it wouldn't change the magnitude relative to 6 impacts at this priority date, impacts at that 6 each other. 7 7 priority date, and then by some method of allocation MS. McHUGH: Okay. I have nothing further. 8 8 we could have this impact to another priority date. MR. SIMPSON: Mr. Arkoosh? 9 9 Rather an interpolation, but maybe an 10 10 interpolation based upon the amount of water that FURTHER EXAMINATION 11 BY MR. ARKOOSH: 11 would be different between the two, the withdrawal, 12 sort of, of the curtailment waters. 12 Q. Well, I was just going to ask you, you 13 Q. In the Snyder/Coupal report, they place 13 know, if profits are greater today, the losers could 14 certain values on irrigated agriculture, for 14 lose more and the winners could get more; is that 15 example. 15 right? 16 16 Would that inform what in fact is the A. Well, that's true, yeah. Profits are 17 value of certain irrigated agriculture, for 17 greater today --18 18 instance? Q. The winners win more and the losers lose 19 19 A. Yes. more? 20 20 Q. And would that be the same for the other A. The winners win more and the losers lose 21 sectors it considered? 21 more. 22 22 A. Yes. Yes. MR. ARKOOSH: I have nothing further. 23 Q. Go ahead. 23 /// 24 24 /// A. I'll have to amplify that a little bit. 25 Given that Snyder and Coupal's report is 25 /// Page 100 Page 98 1 1 dated as of some date, it may be different as of FURTHER EXAMINATION 2 BY MR. SIMPSON: 2 this date, largely due to cost changes and price 3 Q. Mr. Church, is it reasonable, in your 3 changes and things like that that may have occurred. 4 4 view, to perform a statistical analysis, a linear So in a relative sense, if you treat 5 5 interpolation with two points? everything in the constant dollars of the date that 6 6 A. It is not a linear interpolation that report was done, that would definitely be a relative 7 7 I'm really mentioning. It is kind of a linear sort of impact. 8 8 adjustment of the results. But what I'm saying is If somebody wanted to recalibrate it to 9 9 that input/output model and the types of parameters a different date, it would be completely 10 different -- may be different. 10 that it uses, you could reasonably use a different 11 Q. Recalibrate it to a different date as to 11 set of water parameters and scale it because the 12 12 the date the report was made? input/output model parameters will not change 13 13 between one level and another level of water use. A. Yes. 14 14 So you could scale it up or down to an extent. Let me point out, though, that higher 15 15 O. And are you aware of -- let's just take prices and perhaps bigger profits also means bigger 16 1949 and 1961 -- the number of water rights that 16 losses if you curtail something. So it could be 17 were acquired in that period of time as opposed to 17 much larger negatives. 18 18 Q. Would you expect that the analysis of the number of water rights that were acquired at 19 the Snyder/Coupal report as far as its positive and 19 some other time, say 1961 to 1970? 20 A. Not specifically. I've seen numbers to 20 negative inputs would change dramatically based on, 21 that effect. But, yeah, I don't recall. I'm not 21 let's say, a priority date cut of -- if the priority 22 date that was curtailed was five to ten years 22 specifically aware of them, no. 23 23 junior? Q. Or the location of those water rights? 24 24 A. No. I don't know. MR. ARKOOSH: Object to the form. Q. (BY MS. McHUGH): You can still answer. 25 Q. Do you think that information would be 25 M & M COURT REPORTING SERVICE, INC. (208) 345-8800 (fax) (208) 345-9611

	Page 101	Page 103
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	relevant in order to determine whether or not this extrapolation that you've been describing could be done? A. And the yeah, it would be relevant, and the type of wells and the uses would be relevant. Q. Right. In other words, there would be a lot of background work to be done before one could reach a conclusion that one could take two points and then utilize those two points to draw conclusions to a third point or a fourth point? A. You would have to make some assumptions about who would be impacted and where. Q. And how much? A. Well, how much essentially is going to come with some priority date. That's how much. Q. That's right. A. But who and what essentially what would occur with that. MR. SIMPSON: Okay. That's all I have. MR. MAY: I don't have anything. MS. McHUGH: Okay. Dan's out of luck. We're off the record.	1       CERTIFICATE OF WITNESS         2       I, JOHN CHURCH, being first duly sworn,         4       depose and say:         5       That I am the witness named in the foregoing         6       deposition, consisting of pages 1 through 102; that         7       I have read said deposition and know the contents         8       thereof; that the questions contained therein were         9       propounded to me; and that the answers contained         10       therein are true and correct, except for any changes         11       that I may have listed on the Change Sheet attached         10       hereto.         13       DATED this
24	(Deposition concluded at 11:13 a.m.)	24 RESIDING AT
25	(Signature requested.) Page 102	25 MY COMMISSION EXPIRES Page 104
1	. Tuge 102	
2	-000-	CHANGE SHEET FOR JOHN CHURCH     PageLineReason for Change     Tempt
23	-000-	
3 4	-000-	2 PageLineReason for Change 3 Reads
3 4 5	-000-	2 PageLineReason for Change 3 Reads 4 Should Read 5 PageLineReason for Change 6 Reads
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2	I, JEFF LaMAR, CSR No. 640, Certified
3	Shorthand Reporter, certify:
4	That the foregoing proceedings were taken
5	before me at the time and place therein set forth,
6	at which time the witness was put under oath by me.
7	That the testimony and all objections made
8	were recorded stenographically by me and transcribed
9	by me or under my direction.
10	That the foregoing is a true and correct
11	record of all testimony given, to the best of my
12	ability.
13	I further certify that I am not a relative or
14	employee of any attorney or party, nor am I
15	financially interested in the action.
16	IN WITNESS WHEREOF, I set my hand and seal
17	this day of, 2007.
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22	JEFF LaMAR, CSR NO. 640
23	Notary Public
24	Eagle, Idaho 83616
_25	My commission expires December 30, 2011

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14	employee of any attorney or party, nor am I
15	financially interested in the action.
16	IN WITNESS WHEREOF, I set my hand and seal
17	this 21 <sup>5T</sup> day of November, 2007.
18	
19	Suma FF Lama and
20	NOTAR.
21	PUBLIC JEFF LaMAR, CSR NO. 640
22	JEFF LAMAR, CSR NO. 640
23	Notary Public
24	Eagle, Idaho 83616
25	My commission expires December 30, 2011

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#### Docket No. 37308-2010

### IN THE SUPREME COURT OF THE STATE OF IDAHO

# IN THE MATTER OF DISTRIBUTION OF WATER TO WATER RIGHT NOS. 36-04013A, 36-04013B, AND 36-07148 (Clear Springs Delivery Call)

IN THE MATTER OF DISTRIBUTION OF WATER TO WATER RIGHT NOS. 36-02356A, 36-07210, AND 36-07427 (Blue Lakes Delivery Call)

CLEAR SPRINGS FOODS, INC., Petitioner/Respondent/Cross-Appellant,

v.

BLUE LAKES TROUT FARM, INC., Cross Petitioner/Respondent/Cross-Appellant,

v.

IDAHO GROUND WATER APPROPRIATORS, INC., NORTH SNAKE GROUND WATER DISTRICT, and MAGIC VALLEY GROUND WATER DISTRICT, Cross Petitioners/Appellants/Cross-Respondents,

v.

GARY SPACKMAN., in his capacity as Director of the Idaho Department of Water Resources; and the IDAHO DEPARTMENT OF WATER RESOURCES, Respondents/Respondents on Appeal/Cross-Respondents,

v.

IDAHO DAIRYMEN'S ASSOCIATION, INC., and RANGEN, INC., Intervenors/Respondents/Cross-Respondents.

### **GROUNDWATER USERS' OPENING BRIEF**

On Appeal from the District Court of the Fifth Judicial District of the State of Idaho, in and for the County of Gooding.

Honorable John M. Melanson, District Judge, Presiding.



The central purpose of the Swan Falls Agreement would be ruined if spring water rights were entitled to increase surface water supplies above the minimum flows via the curtailment of ground water pumping. The State of Idaho and the Idaho Department of Water Resources entered into the Swan Falls Agreement only on condition that other water uses could continue or be developed so long as those minimum flows were maintained. The benefit of that bargain would be annihilated if spring users were entitled to command water flows above the minimum flows which were agreed to.

### (R. Supp. Vol. 6, p. 4796.)

As a matter of law, the terms of the Swan Falls Agreement render any delivery call by spring users invalid so long as the minimum flows at the Murphy Gauge are maintained. Blue Lakes and Clear Springs cannot be permitted to force the State to abandon the Swan Falls Agreement and deprive the State of its ability to develop the additional water secured by the Agreement. The curtailment orders should be set aside because they fail to comply with the comprehensive water management plan established by the Swan Falls Agreement and State Water Plan. If the Court accepts this argument, it will be unnecessary to remand this case for further proceedings.

# II. The curtailment orders violate the law of full economic development of groundwater resources set forth in Ground Water Act.

This Court should set aside the curtailment orders because they violate the overarching policy of the Ground Water Act ("Act") that "while the doctrine of 'first in time is first in right' is recognized, a reasonable exercise of that right <u>shall not block full economic development</u> of underground water resources." I.C. § 42-226 (emphasis added). The Act is acutely relevant to this case because it is the only place in Idaho's water code where the Legislature addresses the situation of a surface water user seeking to curtail a junior groundwater user. In fact, it was the

1953 amendments to the Act that first authorized the Director to administer groundwater rights for the benefit of surface rights. 1953 Idaho Sess. Laws, ch. 182. Prior to 1953, holders of surface water rights had neither a recognized right nor an administrative mechanism to seek priority administration against groundwater rights. As discussed below, this right to seek administration (through enforcement of priority) against groundwater rights is conditional.

To achieve this goal of full economic development, the Act provides that "appropriators of underground water <u>shall be protected</u> in the maintenance of reasonable ground water pumping levels." I.C. § 42-226 (emphasis added). The Act enables groundwater development to expand so long as it does not "result in the withdrawing of the ground water supply at a rate beyond the reasonably anticipated average rate of future natural recharge" (i.e. so long as withdrawals do not outpace inputs). I.C. § 42-237A(g).<sup>21</sup> Simply stated, if hydraulic conditions can sustain the existing diversions from the aquifer, the Act precludes curtailment. On this condition the Legislature made groundwater rights subject to curtailment by surface water rights.<sup>22</sup>

This administrative scheme is founded on precedent from this Court. As early as 1923, in a case involving groundwater, the Court held that a water user has "no right to insist the watertable be kept at the existing level in order to permit him to use the underground waters." *Nampa* & *Meridian Irrigation Dist. v. Petrie*, 37 Idaho 45, 51 (1923). The Court explained that "[t]o hold that any land owner has a legal right to have [] a water table remain at a given height ... is not required by either the letter or spirit of our constitutional and statutory provisions in regards

<sup>&</sup>lt;sup>21</sup> The Act even permits over-drafting of an aquifer in certain circumstances. I.C. § 42-237A(g).

<sup>&</sup>lt;sup>22</sup> Notably, the water rights that Blue Lakes and Clear Springs used to make their delivery calls were appropriated *after* the Ground Water Act was amended to provide for full economic development in 1953.

to water rights." *Id.* As the Court later stated in *Nettleton v. Higginson*, "the entire water distribution system under Title 42 of the Idaho Code is to further the state policy of securing the maximum use and benefit of its water resources." 98 Idaho 87, 91 (1977).

The Act's attention to reasonable pumping levels and the balance between withdrawals and recharge reflect the Legislature's <u>expectation</u> that aquifer levels would decline as groundwater pumping expanded. With respect to the ESPA specifically, the anticipated lowering of the water table was also expected to result in an accompanying reduction in the amount of water that overflows from the ESPA through the springs in the Thousand Springs area. Therefore, the Legislature provided that the Act applies "[w]henever any person owning or claiming the right to the use of any <u>surface or ground water right</u> believes that the use of such right is being adversely affected by one or more users of ground water rights of later priority ....." I.C. § 42-237B (emphasis added).

Former Director Ken Dunn testified that because of the Act's directive for full economic development of groundwater resources, "the Department would not have permitted spring users in the thousand springs reach to curtail ground water pumping on the Eastern Snake River Plain." *Id.* The policy was incorporated in the first State Water Plan adopted in 1977, which states:

Aquaculture can expand when and where water supplies are available and where such uses do not conflict with other beneficial uses. It is recognized, however, that future management and development of the Snake River Plain Aquifer may reduce the present flow of springs tributary to the Snake River, necessitating changes in diversion facilities.

(Ex.440, Policy 5G) (emphasis added.)

The Act and its mechanism for achieving full economic development were challenged in 1973. *Baker v. Ore-Ida Foods, Inc.*, 95 Idaho 575, 576 (1973). An earlier decision of this Court suggested that "a senior appropriator of ground water is forever protected from any interference with his method of diversion." *Id.* at 581 (citing *Noh v. Stoner*, 53 Idaho 651 (1933)). Under *Noh*, "the only way that a junior can draw on the same aquifer is to hold the senior harmless for any loss incurred as a result of the junior's pumping." *Id.* In *Baker*, the Court recognized that its prior decision in *Noh* was problematic, since "[i]f the costs of reimbursing the senior became excessive, junior appropriators could not afford to pump the aquifer." *Id.* 

In response, the Court reversed its prior holding, explaining that it was "inconsistent with the constitutionally enunciated policy of optimum development of water resources in the public interest." *Id.* at 583. The Court concluded that "the Ground Water Act is consistent with the constitutionally enunciated policy of promoting optimum development of water resources in the public interest." *Id.* at 584 (internal cite omitted); see also Idaho Const. art 15, § 3 (stating "[t]he right to divert and appropriate the unappropriated waters of any natural stream to beneficial use, shall never be denied...."). Further, the Court explained that

A senior is not absolutely protected in either his historic water level or his historic means of diversion. Our Ground Water Act contemplates that in some situations senior appropriators may have to accept some modification of their rights to achieve the goal of full economic development.

*Id.* A water user is not entitled to curtail junior-priority groundwater rights simply because the water table has lowered. While this means that junior-priority groundwater pumping may have some negative impact on senior-priority water users, the Court explained that

In the enactment of the Ground Water Act, the Idaho legislature decided, as a matter of public policy, that it may sometimes be necessary to modify private property rights in ground water in order to promote full economic development of the resource. The legislature has said that when private property rights clash with the public interest regarding our limited ground water supplies, in some instances at least, the private interests must recognize that the ultimate goal is the promotion of the welfare of all our citizens.

Id. (internal cite omitted); see also Schodde v. Twin Falls Land and Cattle Co., 224 U.S. 107, 120 (1912) (holding that a water right "is not an unrestricted right, but must be exercised with some regard to the rights of the public"). The ultimate criterion of groundwater administration is "how best to utilize the annual supply without over-drafting the stock which maintains the aquifer's water level." *Baker*, 95 Idaho at 580.

That is not to say that the directive for full economic development does away with the right of priority. To the extent necessary to prevent over-drafting of the aquifer, priority of right still determines which water rights get shut off to maintain a stable water table. But the Act unquestionably places limits on the exercise of priority. *Parker v. Wallentine*, 103 Idaho 506, 512 (1982) (confirming that the doctrine that first in time is first in right "was modified in certain respects by the enactment of the Ground Water Act ....").

The CM Rules incorporate the Act and its policy of full economic development of groundwater resources:

These rules integrate the administration and use of surface and ground water in a manner consistent with the traditional policies of reasonable use of both surface and ground water. The policy of reasonable use includes the concepts of priority in time and superiority in right being subject to conditions of reasonable use ... and full economic development as defined by Idaho law.

CM Rule 20.03. In addition, the CM Rules specifically instruct the Director to consider "[t]he amount of water available from the source from which the water right is diverted" when responding to delivery calls made against groundwater rights. CM Rule 43.01.a.

This Court has considered and upheld the constitutionality of the CM Rules, and affirmed the Director's duty in conjunctive water administration to consider "the reasonableness of a diversion, the reasonableness of use and full economic development." *AFRD2*, 143 Idaho at 876. As explained by the Court, "[w]hile the prior appropriation doctrine certainly gives pre-eminent rights to those who put water to beneficial use first in time, this is not an absolute rule without exception." *Id.* at 880.

The Ground Water Act facilitates full economic development by protecting groundwater pumping so long as a reasonable aquifer levels are sustained. In addition, the Act lends support to common law prohibition of monopolistic water use. It also requires the Director to consider the economic impact of curtailment. When applied to the facts of this case, these considerations uniformly and powerfully show that the curtailment orders violate the law of full economic development of groundwater resources.

## A. The curtailment orders require the water table of the ESPA to be maintained at an inflated level contrary to the Act.

The fact that (a) the spring water rights by which Blue Lakes and Clear Springs demand curtailment were appropriated when ESPA overflow was at an all-time high; (b) these peak flows cannot be restored without returning to flood irrigation, retiring Palisades Reservoir in favor of winter canal flows, and drying up nearly one million groundwater irrigated acres; (c) annual recharge to the ESPA (7.5 million acre-feet) is far above annual groundwater withdrawals (2.1 million acre-feet); (d) current spring flows remain 1,200 cfs above natural levels; and (a) the ESPA is at or near equilibrium (See Statement of Facts pp. 13-15 *supra*.), clearly precludes curtailment based on the administrative scheme embodied in the Ground Water Act. The central premise of the Act is that the ESPA and other aquifers will be administered to achieve full economic development by protecting the use of groundwater provided reasonable, sustainable aquifer levels are maintained.

The original curtailment orders issued in 2005 cite the law of full economic development (R. Vol. 1, p. 63  $\P$  6; R. Vol. 3, p. 512  $\P$  6) and note the difference between recharge into and withdrawals from the ESPA (R. Vol. 1, pp.45-45,  $\P\P$  3-6; R. Vol. 3 pp. 487-88,  $\P\P$  3-6). However, the orders do not take the next step and apply the law of the Act to the foregoing facts. The orders do not address administration of the ESPA based on reasonable aquifer levels at all. Massive and permanent curtailment was ordered without any meaningful analysis of the most defining statutory criterion for administering groundwater rights in response to delivery calls made by surface water rights.

After the hearing, the hearing officer acknowledged that "first in time is, first in right' is fundamental to water administration but is subject to consideration of the public interest," (R. Vol. 16, p. 3690), yet still offered no analysis of the aquifer level, the relationship between recharge and withdrawals, or the fact that spring discharges remain higher than historic levels. On judicial review, the district court acknowledged that both the CM Rules and Idaho Code § 42-226 require analysis of full economic development, but the court refused to reverse the curtailment orders, explaining:

Such a determination of "reasonableness" required the Director to balance the State's policy of full economic development, the exercise of senior priority rights, and the public interest. A determination of full economic development, as contemplated by the CMR and Idaho Code § 42-226, is not an analysis of the "highest and best" use of the water or the "best economic return" from the use of the water. Rather, full economic development denotes expansive utilization of the aquifer, and does not necessarily dictate a preference of a more profitable or popular water use over another. Applying the balancing test, the Director made findings that the Spring Users were employing reasonable diversion practices and that the amount of undeveloped water or "dead storage" in the aquifer was reasonable under the circumstances.

(Clerk's R. p. 121.) This conclusion is mistaken. First, full economic development is not a balancing test. While the Director may exercise discretion in defining a reasonable aquifer level, he cannot refuse to consider whether the rate of groundwater withdrawal exceeds the reasonably anticipated rate of future recharge, or refuse to administer the ESPA based on reasonable aquifer levels.

Second, the district court properly noted that "any public interest or full economic development analysis has to start with the premise that a certain amount of undeveloped water or 'dead storage' is acceptable" (Clerk's R. p. 79), but mistakenly assumed the Director actually made a determination of reasonable aquifer levels. While the Director recognized that annual recharge is greater than withdrawals, he not apply the fact to the law of the Act by making specific findings or conclusions concerning reasonable aquifer levels or the amount of "dead storage" required by the curtailment orders.

The district court further assumed that the Director actually made findings that the Spring Users' were not monopolizing the aquifer, but this assumption is equally untrue. *Id.* p. 78-79. While the district court was clearly troubled by the "overwhelming" evidence "that the curtailment of ground water does not result in a timely proportionate increase to spring flows" and that "the majority of the projected increases to the respective sub-reaches is water not used by the Springs Users and discharges from the aquifer through other spring complexes," *Id.* at 78, the district court ultimately affirmed the curtailment orders based on an assumption that the Director directly considered these issues.

Due to the lack of specific findings or conclusions concerning reasonable aquifer levels, we are left with nothing more than an <u>inference</u> that the Director must have believed that curtailment is consistent with administrative scheme embodied in the Act. But inferences are not enough to sustain the curtailment orders. The Director has a statutory duty to provide "a concise and explicit statement of the underlying facts of record supporting the findings." I.C. § 67-5248. This Court should not give deference to inferred findings and conclusions concerning facts that are at the very heart of this case. The lack of any meaningful analysis of the recharge/withdrawal balance and reasonable groundwater levels has resulted in the Act being utterly trivialized, with the Director now excused from making any meaningful application of the Act in the future.

Instead of the ESPA being administered for maximum sustainable beneficial use, the orders aim to maximize overflow from the ESPA, <u>minimizing</u> beneficial use of Idaho's most productive aquifer and encouraging additional delivery calls by spring users. Blue Lakes and Clear Springs have "no right to insist that the water table be kept at the existing level," *Petrie*,

37 Idaho at 51, yet the curtailment orders guarantee them an inflated water table that is impossible to restore without a total reversion to inefficient flood irrigation and a reversal of a half century's worth of groundwater development.

The curtailment orders should be set aside because they violate the Ground Water Act. With annual recharge into the ESPA far greater than withdrawals, the water table of the ESPA at or near equilibrium, and spring discharges well above natural levels, it makes no sense and is contrary to the directive for full economic development and the maintenance of reasonable pumping levels to permanently dry up more than 70,000 acres of farmland. This is precisely why the Act provides that senior water users may have to accept "some modification of their rights in order to achieve the goal of full economic development." *Baker*, 95 Idaho at 584.

### B. The curtailment orders give Blue Lakes and Clear Springs an unreasonable monopoly over the ESPA.

Violation of the Act is further evidenced by the gross monopoly created in Blue Lakes and Clear Springs by the curtailment orders. It has long been "[t]he policy of the law of this State [] to secure the maximum use and benefit, and least wasteful use, of its water resources." *Poole v. Olaveson*, 82 Idaho 496, 502 (1960) see also *Parker v. Wallentine*, 103 Idaho 506, 650 P.2d 648 (1982) (stating that "it is clearly state policy that water be put to its maximum use and benefit"). Accordingly, the CM Rules precludes monopolistic water use by providing that "[a]n appropriator is not entitled to command the entirety of large volumes of water in a surface or ground water source to support his appropriation contrary to the public policy of reasonable use of water." CM Rule 20.03.

#### **GROUNDWATER USERS' OPENING BRIEF**

The policy against monopolistic water use is rooted in our constitutional guarantee that "[t]he right to divert and appropriate the unappropriated waters of any natural stream to beneficial uses, shall never be denied ....." Idaho Const., Art. 15, § 3. As this Court explained more than a century ago,

In this arid country where the largest duty and the greatest use must be had from every inch of water in the interest of agriculture and home-building, it will not do to say that a stream may be dammed so as to cause subirrigation of a few acres at a loss of enough water to surface-irrigate ten times as much by proper application.

Van Camp v. Emery, 13 Idaho 202, 208 (1907). The United States Supreme Court, applying Idaho law, relied on this same policy in the case of Schodde v. Twin Falls Land and Cattle Co. 224 U.S. 107. In that case, water diversions into the newly-constructed Twin Falls Canal had substantially reduced the flow of water in the Snake River, preventing Schodde from being able to divert his more senior water right and leaving him without any water for his 430-acre farm. *Id.* at 114-16. Though senior in priority, the Court denied Schodde any recourse because protecting his diversion would unreasonably impair the public interest in maximizing development of the Snake River. *Id.* The Court reasoned that a water right "must be exercised with reference to the general condition of the country and the necessities of the people, and not so to deprive a whole neighborhood or community of its use and vest an absolute monopoly in a single individual." *Id.* at 121 (quoting *Basey v. Gallagher*, 87 U.S. 670, 683 (1874)).

In *Schodde*, the Court justified its decision with the following hypothetical, which is remarkably relevant to this case:

Suppose from a stream of 1000 inches a party diverts and uses 100, and in some way uses the other 900 to divert his 100, could it be said that he made such a

reasonable use of the 900 as to constitute an appropriation of it? Or, suppose that when the entire 1000 inches are running, they so fill the channel that by a ditch he can draw off to his land 100 inches, can he then object to those above him and appropriating the other 900 inches, because it will so lower the stream that his ditch becomes useless? This would be such an unreasonable use of the 900 inches as will not be tolerated under the law of appropriation.

*Id.* at 119. It was patently unreasonable to the *Schodde* Court to curtail water to thousands of irrigated acres if only ten percent of the curtailed water could be used by the senior water user.

While the *Schodde* Court did not state what it believed to be a reasonable return on curtailment, the hypothetical certainly implies it must be greater than ten percent. The best evidence of a reasonable rate of return on curtailment in this case was given by Clear Springs' CEO Larry Cope who testified that he believed that at least a two-thirds (sixty-seven percent) return on curtailment within ten years is an appropriate standard. (Cope, Tr. Vol. 1, p. 159, L. 12-16.)

In this case, the scope of curtailment is so broad that Blue Lakes is projected to receive **less than one percent** of the water curtailed. (See Statement of Facts at p. 40 *supra*.) Worse yet, Clear Springs is projected to receive only **one quarter of one percent** of the water curtailed. *Id.* The disparity between the amount of water curtailed and the projected benefit to Blue Lakes and Clear Springs could hardly be more extreme. The return on curtailment of less than one percent simply cannot be squared with holding in *Schodde* that a ten percent rate of return is patently unreasonable, particularly given the testimony of Mr. Cope that a two-thirds return should be required.

The remaining ninety-nine percent of the curtailed water is turned into unusable "dead" storage that serves the sole purpose of propping up an inflated water table and spring discharges. (Clerk's R. pp. 77-78.) This massive surplus of unusable storage water is contradictory to the law of full economic development as well as the constitutional promise that "[t]he right to divert and appropriate the unappropriated waters of any natural stream to beneficial uses, shall never be denied ....." Idaho Const. art. XV, § 3.

The Director's original curtailment orders fail to even mention, let alone make discrete findings or conclusions concerning, the disparity between the amount of water curtailed and the fractional return to Blue Lakes and Clear Springs, or the amount of groundwater that must be permanently stored in the ESPA to prop up the water table and support their inflated spring flows. Following the hearing, however, the hearing officer did note the stark imbalance:

One of the most startling facts in these cases is the amount of acreage that must be curtailed in order to deliver water to the Spring Users facilities. It is not a one cfs to one cfs increase to the Spring Users ratio. The vast majority of the water that will be produced from curtailment does not go to the Blue Lakes and the Snake River Farm facilities. Perhaps it will go to beneficial use in Idaho, perhaps not.

(R. Vol. 16, p. 3690.) Still, it was not enough for the Director to change course and narrow the scope of curtailment. The hearing officer did cite *Schodde* and CM Rule 20.03 in response to the Spring Users' argument that even more acres should have been curtailed (R. Vol. 16, p. 3712), but neither the hearing officer nor the Director were willing to go one step further and question whether <u>fewer</u> acres should be curtailed given the tiny rate of return on the broad curtailment ordered in an emergency in 2005.