

RECEIVED

MAY 05 2014

WATER RESOURCES
WESTERN REGIONSTATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT
To appropriate the public waters of the State of IdahoIdent. No. 63-33951

1. Name of applicant(s) Cole Valley Christian Schools Phone 208-947-1212
 Name connector (check one): ☐ and ☐ or ☐ and/or
 Mailing address 200 E. Carlton Ave. City Meridian
 State ID Zip 83642 Email mbeglinger@cvcsonline.org
2. Source of water supply ground water which is a tributary of _____
3. Location of point(s) of diversion:

TWP	RGE	SEC	Govt Lot	¼	¼	¼	County	Source	Local name or tag #
3N	1E	7		SE	NW		ADA	GROUNDWATER	

4. Water will be used for the following purposes:
 Amount 0.13 cfs for irrigation purposes from 4/1 to 11/30 (both dates inclusive)
 (cfs or acre-feet per year)
 Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year)
 Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year)
 Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year)
5. Total quantity to be appropriated is (a) 0.13 cubic feet per second (cfs) and/or (b) _____ acre feet per year (af).
6. Proposed diverting works:
- Describe type and size of devices used to divert water from the source Six inch well with a 5-10 hp submersible pump
to mainline then to sprinkler system.
 - Height of storage dam _____ feet; active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet. If the reservoir will be filled more than once each year, describe the refill plan in item 11. For dams 10 feet or more in height OR reservoirs with a total storage capacity of 50 acre-feet or more, submit a separate Application for Construction or Enlargement of a New or Existing Dam. Application required? ☐ Yes ☐ No
 - Proposed well diameter is 6 inches; proposed depth of well is 125 feet.
 - Is ground water with a temperature of greater than 85°F being sought? ☐ Yes ☒ No
 - If well is already drilled, when? No; drilling firm _____;
 well was drilled for (well owner) _____; Drilling Permit No. _____
7. Description of proposed uses (if irrigation only, go to item 8):
- Hydropower; show total feet of head and proposed capacity in kW. _____
 - Stockwatering; list number and kind of livestock. _____
 - Municipal; complete and attach the Municipal Water Right Application Checklist.
 - Domestic; show number of households _____
 - Other; describe fully. _____

8. Description of place of use:

- a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- b. If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below.
See instructions for standard symbols.

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
3N	1E	7								4.5									4.5

Total number of acres to be irrigated: 4.5

9. Describe any other water rights used for the same purposes as described above. Include water delivered by a municipality, canal company, or irrigation district. If this application is for domestic purposes, do you intend to use this water, water from another source, or both, to irrigate your lawn, garden, and/or landscaping?

City of Meridian supplies potable water to the same location. The property is also served by the Hunter Lateral within the Nampa Meridian Irrigation District.

10. a. Who owns the property at the point of diversion? Applicant
- b. Who owns the land to be irrigated or place of use? Applicant
- c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing:
N/A

11. Describe your proposal in narrative form, and provide additional explanation for any of the items above. Attach additional pages if necessary.

Please see attached narrative.

12. Time required for completion of works and application of water to proposed beneficial use is 5 years (minimum 1 year).

13. **MAP OF PROPOSED PROJECT REQUIRED** - Attach an 8½" x 11" map clearly identifying the proposed point of diversion, place of use, section #, township & range. A photocopy of a USGS 7.5 minute topographic quadrangle map is preferred.

The information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval.

Matthew A. Beglinger
Signature of Applicant

Signature of Applicant

Matthew Beglinger, Athletic Director/Facilities Director
Print Name (and title, if applicable)

Print Name (and title, if applicable)

For Department Use:

Received by CNute Date 5-5-14 Time 12:30 Preliminary check by VLM
Fee \$ 100⁰⁰ Received by CNute Receipt No. W042080 Date 5-5-14



May 2, 2014

IDWR – Application for Permit, **Narrative**

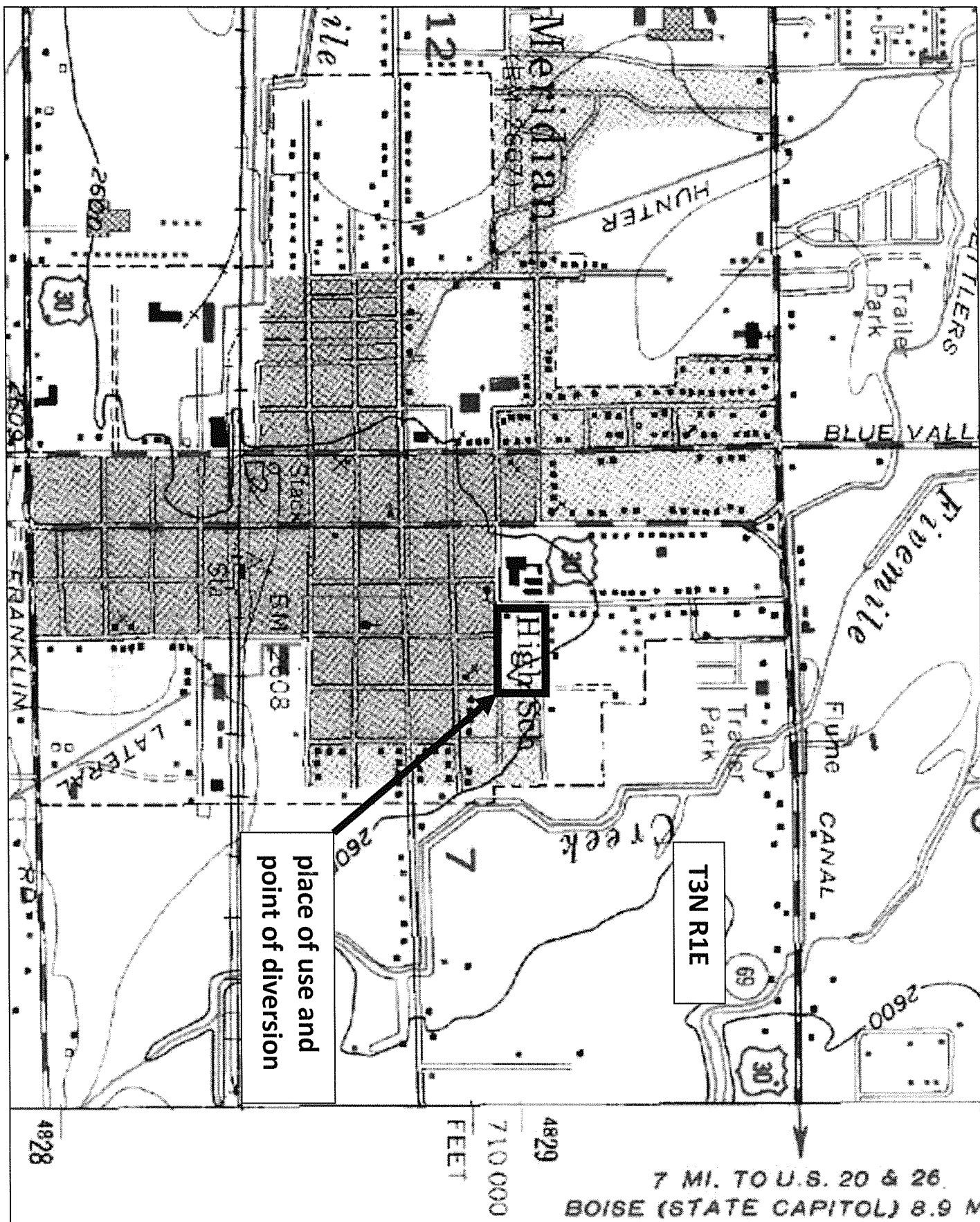
Cole Valley Christian School has recently acquired the 4.5 acre lot to the East of the school building. We are in the process of developing a multi-use grass field for student and community activities.

Currently there is city water to the residence. The current plan is to remove the residence and cap the city water until such a time as needed (future drinking fountains or restrooms.)

The land is also served by the Hunter Lateral. There are several concerns we have regarding the use of this water as our primary means for irrigation.

- 1) The flow is not very high. Pumping water directly from the source for irrigation would not be feasible without substantial on-site water storage. The civil engineer that I spoke with did not think it would be possible without a pond.
- 2) The availability of water can be intermittent. The local Hunter Lateral rep I spoke with said that the line is not always maintained (nobody pays dues anymore and the original governing structure has basically dissolved over the years.) It is not uncommon to be without water for a week or more if there is a problem up the line.
- 3) The water schedule (once per week for a 37 hour period) is set up for flood irrigation. This is not a good method for irrigating an athletic field that will see daily use.
- 4) In a dry year (such as 2013) the irrigation water can be shut off as early as August. Football season lasts into late October. This would make for a very dry, hard, and unsafe practice field.

For these reasons we are proposing a well with a water bearing zone within 50 to 125 feet to properly irrigate the field. Thank you for your consideration.



63-33951



Sommer, Rachel

From: Sommer, Rachel
Sent: Wednesday, June 25, 2014 11:58 AM
To: 'LEGALS@IDAHOSTATESMAN.COM'
Subject: Ada Legal Ad
Attachments: Ada Cover Letter.docx; Ada Legal Ad.docx

Good Morning Janice Hildreth,

Please see the attached ad for publication on 7/3/2014 & 7/10/2014.

Please confirm these are okay to publish as shown.

Thank you,

Rachel Sommer

Administrative Assistant
Dept. of Water Resources
Western Regional Office
2735 Airport Way, Boise ID 83705
Phone 208-334-2190 | Fax 208-334-2348
Email: rachel.sommer@idwr.idaho.gov

June 25, 2014

LEGAL NOTICE DEPARTMENT
IDAHO STATESMAN
PO BOX 40
BOISE, ID 83707

RE: Application For Permit No's: 63-33942, 63-33951

Dear Legal Notice Department:

Please publish the enclosed legal notice on the dates indicated (once a week for two consecutive weekly issues). If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Please send the affidavit and bill to this office before 7/21/2014. Your cooperation is appreciated.

Sincerely,

Rachel Sommer
Administrative Assistant

Enclosures

The following applications have been filed to appropriate the public waters of the State of Idaho:

63-33942

NORTH HILLS PARTNERSHIP

10446 W SHADYBROOK DR

BOISE, ID 83704

(2)Points of Diversion SENW S14 T04N R01E ADA County Source GROUND WATER

Use: DOMESTIC 01/01 to 12/31 0.25 CFS

Total Diversion: 0.25 CFS

Date Filed: 5/2/2014

Place of Use: DOMESTIC

T04N R01E S14 SENW

Water bearing zone to be appropriated is from 50 to 150 feet.

63-33951

COLE VALLEY CHRISTIAN SCHOOLS

200 E CARLTON AVE

MERIDIAN, ID 83642

Point of Diversion SENW S7 T03N R01E ADA County Source GROUND WATER

Use: IRRIGATION 03/01 to 11/15 0.13 CFS

Total Diversion: 0.13 CFS

Date Filed: 5/5/2014

Place of Use: IRRIGATION

T03N R01E S7 SENW

Total Acres: 4.5

Water bearing zone to be appropriated is from 50 to 125 feet.

Permits will be subject to all prior water rights. For additional information concerning the property location, contact Western Region office at (208) 334-2190; or for a full description of the right(s), please see www.idwr.idaho.gov/apps/ExtSearch/WRFiling.asp. Protests may be submitted based on the criteria of Idaho Code § 42-203A. Any protest against the approval of this application must be filed with the Director, Dept. of Water Resources, Western Region, 2735 Airport Way, Boise ID 83705 together with a protest fee of \$25.00 for each application on or before 7/21/2014. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director

Published on 7/3/2014 and 7/10/2014



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

June 17, 2014

MATTHEW BEGLINGER, ATHLETIC & FACILITIES DIRECTOR
COLE VALLEY CHRISTIAN SCHOOLS
200 E CARLTON AVE
MERIDIAN, ID 83642

Re: Application for Permit No. 63-33951

Dear Mr. Beglinger:

The application referenced above, submitted to the Idaho Department of Water Resources (IDWR) on May 5, 2014, has been assigned to me for processing. The application for permit seeks 0.13 cfs from ground water for the irrigation of 4.5 acres in Ada County. IDWR will publish legal notice of the application in July, however, additional information is required before a permit will be issued.

Surface water has historically been delivered to the property by Nampa Meridian Irrigation District (NMID) through the Hunter Lateral. It is unclear from the application whether the intent of the appropriation is to supplement or replace the surface water. If the intent is to supplement the NMID water, the school system must use the surface water when it is available, and use the ground water when the surface water is not available. IDWR would require that the annual assessments to NMID continue to be paid and the permit would contain the following supplemental use conditions:

065 - The right holder shall make full beneficial use of all surface water rights available to the right holder for irrigation of the lands authorized to be irrigated under this right. The right holder shall limit the diversion of ground water under this right for land with an appurtenant surface water right(s) to those times when the surface water supply is not available or the surface water supply is not reasonably sufficient to irrigate the place of use authorized under this right.

104 - If the surface water right(s) appurtenant to all or part of the place of use is abandoned, forfeited, sold, transferred, leased or used on any other place of use, this right to divert ground water shall not be used on the land with an appurtenant surface water right(s) without an approved transfer pursuant to Section 42-222, Idaho Code, or approval of the Department if a transfer is not required.

The right holder shall pay all assessments levied by the Nampa Meridian Irrigation District related to the right for delivery of surface water to irrigate the place of use.

If the intent of the application is for the ground water use to replace the surface water as the primary right, you must obtain a letter from NMID allowing you to opt out of the district, or provide a detailed cost analysis of why the NMID water is not financially feasible over a period of years. IDWR will not approve a primary groundwater right without this level of documentation because the property has a surface water right, and there is a historical and statewide public policy that surface water be used to the extent possible to protect ground water for instances when it is the only source available.

Application for Permit 63-33951
July 17, 2014
Page 2 of 2

I have enclosed documents from the IDWR file of permit 63-33301, which was a similar situation. Hopefully, these documents can provide guidance.

Your deadline for the requested information is July 18, 2014. In the alternative, you may request a delay in processing for six months. In any case, the documentation or request for additional time is due in writing by the deadline, and failure to do so may result in the application being voided. Fees are not refunded for voided applications. Please call me at 208.334.2190 if you have questions or would like to discuss your options further. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Vicky Music". The signature is stylized with a large "V" and a cursive "Music".

Vicky Music
Sr. Water Resource Agent

Enclosures: 63-33301 backfile documents

cc via electronic mail (with enclosures): Candice McHugh



SPF WATER
ENGINEERING

November 23, 2009

RECEIVED

NOV 24 2009

WATER RESOURCES
WESTERN REGION

Steve Lester
IDWR Western Region Office
2735 Airport Way
Boise, ID 83705

**Subject: Application for Permit
Application to Lease a Water Right 63-4614 to the Water Supply Bank**

Dear Steve,

Enclosed on behalf of Caldwell School District No. 132 is an Application for Permit for diversion of primary ground water for irrigation use.

Surface water delivered by Pioneer Irrigation District and water right 63-4614 diverted from Dixie Slough are currently appurtenant to the property proposed for ground water irrigation. To prevent supplemental irrigation restrictions, an Application to Lease Water Right 63-4614 to the Water Supply Bank and a copy of the Petition for Exclusion submitted to Pioneer Irrigation District for approval are included.

Caldwell School District No. 132 requests that the Application for Permit be expedited for the following reasons:

1. The Water from Pioneer Irrigation District is not delivered and/or available.
2. The irrigation system from Dixie Drain will require significant and costly repairs before the next irrigation season for continued use.
3. The proposed place of use represents the school grounds for Syringa Middle and Washington Schools. Grass vegetation resulting from irrigation use provides a safe play environment for the school children.

Enclosed is Check No. 91117 for the \$250 filing fee required for the Application for Permit.

WATER BANK APPL to S.U. 12/11/09
w/ cc of cover letter etc.
-SL

63.33301

November 23, 2009

Please let me know if there are any questions. Thanks Steve.

Sincerely,

A handwritten signature in cursive script, appearing to read "Lori Graves".

Lori Graves
Water Rights Specialist

Cc: Amber Van Ocker, LKV Architects

Enclosures

SPF file number: 715.0020



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way, Boise, Idaho 83705-5082

PHONE: (208) 334-2190 FAX: (208) 334-2348 www.idwr.idaho.gov

C.L. "BUTCH" OTTER, Governor
GARY SPACKMAN, Interim Director

December 11, 2009

CALDWELL SCHOOL DISTRICT #132
C/O LORI GRAVES
SPF WATER ENGINEERING LLC
300 E MALLARD DR STE 350
BOISE ID 83706

Re: Application for Permit No. 63-33301

Dear Lori:

The above referenced application will be expedited for legal notice as requested. While that occurs, additional information will be needed before the Idaho Department of Water Resources (IDWR) can issue a decision for the application.

For various reasons, IDWR typically does not approve primary ground water irrigation for land already irrigated by surface water rights. An approval might be possible based on the following two items.

- 1) Exclusion from Pioneer Irrigation District (PID) – Ground water replacement of PID water might be possible following an approved exclusion issued by PID based on unreliable and/or unavailable delivery of water by PID to the proposed place of use. Please provide a copy of the PID decision when it is available.
- 2) Dixie Drain Right No. 63-4614 – This right was recently decreed for irrigation of the proposed site. Aerial photos indicate recent irrigation of that land, presumably by this right. That information suggests the right is adequate to cover the irrigation proposed in the new application. The application indicates Dixie Drain has high sediment content, preventing successful completion of the project.

Please provide a more detailed explanation in that regard. This should include some type of cost/benefit analysis showing why continued irrigation from Dixie Drain is not feasible over a reasonable period of time (years?).

Assuming protests are not filed against the application, it might be approvable based on your response to the above items. The application to lease right 63-4614 to the Water Supply Bank has been forwarded to the

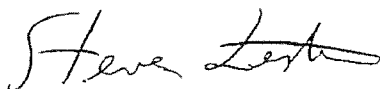
Application for Permit No. 63-33301
December 11, 2009
Page 2

IDWR State Office for follow up. I imagine the water bank application will depend on the outcome of application 63-33301.

Please submit the requested information while application processing continues. The applicant may seek additional time to provide the information by making a written request to interrupt processing for up to six months. A response including the requested information, or a request for more time to seek the information, must be received within sixty (60) days. The application will be voided without a timely written reply.

Please let me know if you need more information. Thank you for your attention to this matter.

Sincerely,

A handwritten signature in cursive script, appearing to read "Steve Lester". The signature is written in dark ink and is positioned above the printed name and title.

Steve Lester
Water Rights Supervisor

Copy: Aaron Marshall, IDWR State Office



SPF WATER
ENGINEERING

February 15, 2010

RECEIVED

FEB 17 2010

WATER RESOURCES
WESTERN REGION

Steve Lester
IDWR Western Region Office
2735 Airport Way
Boise, ID 83705

Subject: Application for permit No. 63-33301

Dear Steve,

The following letter and attachments are in response to the additional information you requested in your letter dated December 11, 2009.

Exclusion from Pioneer Irrigation District. The School District was denied exclusion from Pioneer Irrigation District (PID). PID asserts that appropriate delivery is made to the head of a lateral ditch system that serves the property. It is PID's understanding that the School District is unable to receive the water because of difficulties coordinating with other water users on the lateral.

As a result, the proposed ground water may need to be permitted as supplemental to PID water and the School District will continue to pay for irrigation shares that they are unable to receive.

Dixie Drain Right No. 63-4614. The attached memorandums from SPF Water Engineering (dated February 9, 2010) and the Land Group (dated January 18, 2010) explain why continued irrigation from Dixie Drain is not feasible and includes a cost/benefit analysis as requested.

Thank you for your attention to this application Steve. Please let me know if you need any further information to continue processing.

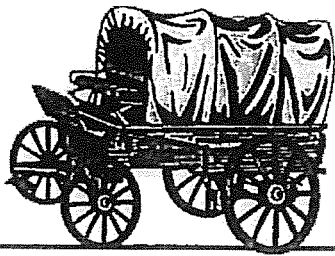
Sincerely,

Lori Graves
Water Rights Specialist

Cc: Amber Van Ocker, LKV Architects

Enclosures

SPF file number: 715.0020



Pioneer Irrigation District

JEFF SCOTT
Superintendent

P.O. BOX 426 • CALDWELL, IDAHO 83606
(208) 459-3617
www.pioneerirrigation.com

MARK ZIRSCHKY
Asst. Superintendent

DAWN FOWLER
Secretary/Treasurer

December 8, 2009

Lori Graves
SPF Water Engineering
300 E. Mallard, Suite 350
Boise, ID 83706

RE: Exclusion Petition Denied - Account #1846

Dear Lori:

Please be advised the Board of Directors of Pioneer Irrigation District considered your Petition for Exclusion from the District for property assessed under Account #1846. As such, I am returning the package you submitted, along with your check #91118 for the exclusion fees.

It was the consensus of the Board to deny your Petition for Exclusion because none of the statutory reasons for exclusion apply to this particular situation. On your petition, you checked reasons #2 and #3. Reason #2 states that petitioner(s) have installed a good and sufficient water system independent of the water system of Pioneer *because the District does not own sufficient water rights to furnish an adequate supply of water*. Pioneer does own sufficient water rights and is able to adequately supply water. Therefore, this option is not valid.

Reason #3 states that The lands so described, in their present condition, are not agricultural lands and Pioneer Irrigation District has not:

- a. adopted a resolution to construct a distribution system for the lands pursuant to Section 43-333, Idaho Code; or
- b. called an election on the question of construction a distribution system for the lands under the provisions of Section 43-329, Idaho Code; or
- c. independently or in cooperation with a city or county established a local improvement district to construct a distribution system for the lands; or constructed a distribution system for the lands.

Per our Superintendent, Pioneer does have a distribution system in place for this property. It is his understanding that the School District chose not to use that distribution system because of difficulties coordinating with other water users. Therefore, this portion of the statute does not apply either.

You are welcome to appear before the board to present any additional information you feel has bearing on the situation. If you wish to appear before the Board, please call me to schedule a time at our next regularly scheduled meeting, which will be January 7, 2010.

If you have any questions, please feel free to call.

Sincerely,

Dawn C. Fowler
Secretary/Treasurer



RECEIVED

FEB 17 2010

WATER RESOURCES
WESTERN REGION

MEMORANDUM

DATE: February 9, 2010

TO: Lori Graves, SPF Water Engineering

FROM: Jennifer Sukow

CC: SPF File 715:0020

RE: Caldwell School District, Water Right Application No. 63-33301

JOB NO.: 622.0020

This memorandum discusses the economic feasibility of surface water and ground water use for irrigation of the Caldwell School District's Syringa Middle School and Washington Elementary School site. The school district currently irrigates approximately 19 acres using water from the Dixie Drain under water right 63-4614. Water right 63-4614 is a wastewater right, and is conditioned "*subject to the right of the original appropriator....to cease wasting water, to change the place or manner of wasting it, or to recapture it.*" The school district is requesting authorization to use ground water as the primary source of irrigation water in water right application 63-33301.

As noted by the Idaho Department of Water Resources, the school district has irrigated the subject property with water from the Dixie Drain as recently as the 2009 irrigation season. However, the current irrigation system is labor intensive and costly to operate. The current system uses hand lines and is plagued with high sediment content from the Dixie Drain. Per the school district's maintenance supervisor, Virgil Bryson, school district staff spends approximately 54 hours per week operating the irrigation system. This includes 3 staff moving hand lines for 2 hours per day, 6 days per week and one staff person removing silt (3 hours per day, 6 days per week) to keep the sprinklers unplugged. The school district spends approximately \$12 per hour per maintenance employee, including wages, taxes, and benefits. Assuming an additional 3 hours per week to monitor the pumping station and 30 weeks of irrigation, the annual labor cost to operate the existing irrigation system is approximately \$20,500.

The school district plans to replace the existing system with a pressurized irrigation system to reduce annual maintenance costs. The Land Group provided a brief letter report discussing the feasibility of using the Dixie Drain as the source of water for the new pressurized irrigation system (Attachment A). Because the Dixie Drain has a high sediment load and significant

amounts of dead vegetation and debris, pumping station costs will include extensive screening and filtration systems. Staff time would be required to daily or twice daily to inspect and clean weed racks and screens at the pumping station intake. Some fine sediments and algae are also expected to pass through the filtration system, so staff time would continue to be required to clean valves and spray nozzles. Conceptual level design, permitting, and construction costs for the pumping station are expected to be approximately \$163,500 (Attachment A).

Use of the proposed well as the primary ground water source would allow the school district to use water free of sediment and debris in the new pressurized irrigation system. This would eliminate staff time spent to clean intake screens and irrigation system valves and nozzles. Minimal staff time would be required to periodically monitor performance of the well pumping station and sprinkler station. Pumping station and irrigation system equipment would also be expected to have longer life, resulting in lower costs for equipment maintenance and replacement. Conceptual level design, permitting, and construction opinions of probable cost for the well and well pumping station are shown in Table 1.

Item	Conceptual Level Opinion of Cost
Well (350-feet, 10-inch casing, 6-inch screens)	\$66,500
Well pumping station	\$35,000
Design and permitting	\$14,000
Power improvements	\$5,000
Total	\$120,500

Table 1. Conceptual level opinion of probable cost for well and pumping system.

Conceptual level costs for the Dixie Drain and well pumping stations and annual labor costs are shown in Table 2 for comparison. Annual labor costs for operating the Dixie Drain pumping station are based on 12 hours per week to clean weed racks and intake screens and monitor the pumping station, plus 18 hours per week to clean valves and spray nozzles. Annual labor costs for operating the well pumping station are based on 5 hours per week to monitor the pumping station and sprinkler system. Annual costs for equipment repair and maintenance are also expected to be lower for the well, but have not been estimated. Design, permitting, and

construction costs do not include the pressurized irrigation distribution system, which is expected to be similar for either option.

Alternative	Design, Permitting, & Construction	Annual Labor Cost for Operation
Dixie Drain pumping station	\$163,500	\$10,800
Well and well pumping station	\$120,500	\$1,800

Table 2. Conceptual level cost comparison.

Primary use of ground water for irrigation of the Syringa Middleton School/Washington Elementary school site would provide the school district with a reliable supply of sediment-free water for the proposed pressurized irrigation system. Pumping station construction costs will be lower for the proposed well pumping station than for a new Dixie Drain pumping station. Ongoing labor costs for operation of the system and equipment maintenance costs will also be lower for the well pumping station. Further, the Dixie Drain is a wastewater source, and water right 63-4614 is dependent on continued wasting of water by upstream appropriators.



THE LAND GROUP, INC.

January 18, 2010

Amber Van Ocker
LKV Architects
2400 Riverwalk Drive
Boise, Idaho 83706

RE: Washington Elementary/Syringa Middle School Gravity Irrigation Pump Station Feasibility Study

Amber,

Per your request we have evaluated the upfront costs and long term efforts that would be required if the Caldwell School District were to install a pump station capable of pumping water from the Dixie Drain onto the landscaping for both schools. This study is based on the assumption that a new pump station would be installed in the same location of the existing pump station, our experiences with similar projects in the near vicinity of these sites that also utilize gravity irrigation water from the Dixie Drain, existing site characteristics and current pricing.

On past projects in the near vicinity of these two sites utilizing the same water source we have experienced consistently poor water conditions. The Dixie Drain consists of primarily unused irrigation water, agriculture runoff and storm water runoff or second hand water. This second hand water tends to have high amounts of fine sediment content and dead vegetation/debris floating in the water requiring an extensive screening and filtration system for the pump station and pressurized irrigation system.

The Dixie Drain crosses through these sites on the western property line flowing south to north. The waterway is a deep channel with the bottom of ditch sitting approximately ten feet below surrounding finish grades and top of water being approximately nine feet below surrounding finish grades. The depth of channel would demand large irrigation structures between 16' and 20' in depth capable of capturing water for the irrigation pump station. The steep slopes of the channel and high ground water will create difficult working conditions for a contractor ultimately inflating the cost of a typical installation. The Dixie Drain flows year round, requiring diversion of the water while the irrigation structures are being installed. It is likely that the Dixie Drain is in the jurisdiction of the Bureau of Reclamation. Wetlands mitigation and methods to prevent downstream water contamination during construction will likely be required. Proper approvals and permitting would need to be in place prior to installation.

Because of the characteristics listed above we feel the overall cost of an irrigation pump station will be significantly higher than that of a typical irrigation pump station. Components of this project would consist of design, permitting, agency approvals, irrigation structures, pump station, power

improvements and installation of all components required for a pump station to pull water from the water source and apply it to the pressurized irrigation system. Below is a summary of components required, installation and fees associated with all phases of the project.

<u>Phase</u>	<u>Estimated Fee</u>
Design/Applications:	\$7500
Permitting:	\$1000
Irrigation Structures:	\$75,000
Pump Station:	\$65,000
Power Improvements:	\$15,000
Total:	\$163,500

As always with any agency, maintenance is an important issue. With the amount of debris in the waterway, during peak irrigation seasons we anticipate daily or twice daily inspection and cleaning of weed racks and screens on the irrigation structures to allow adequate water flow to the pumps. The fine sediments in the water from the Dixie Drain cannot be fully filtered. Some sedimentation in the piping system should be expected. Increased maintenance will be required to clean valves and spray nozzles allowing the system to operate properly. Not doing so will decrease the efficiency of the irrigation system and increase power and water use. The sedimentation will also reduce the life span of most irrigation componenets. A combination of added labor and materials required due to poor water quality will increase annual maintenance budgets.

With the above being said, we recommend the Caldwell School District research the possibility of abandoning their surface water rights and acquire ground water rights for landscape irrigation. We feel that not only will the initial cost impact of a ground water pumping system be less expensive but also long term maintenance, power consumption and overall water use will be dramatically reduced.



The Land Group, Inc.

MEMORANDUM

TO: File

FROM: Steve Lester 

DATE: March 5, 2010

RE: Application 63-33301 Review Memo

The applicant proposed a new well to irrigate about 20 acres for school fields. Would like to replace existing surface water use with primary ground water use. The applicant petitioned to be excluded from Pioneer Irrigation District (PID) based on problems securing use of district water delivered to the head of a lateral – see information in 11/23/09 cover letter from SPF consultant.

The applicant has Dixie Drain right 63-4614 to irrigate the POU. That recently decreed right was submitted in a concurrent application to lease it to the water bank for an indefinite term (forever?) – original water bank application was forwarded to the SO.

Previous discussion with the SO about this application resulted in a request for more information, see IDWR 12/11/09 letter. SPF replied with a 2/15/10 letter/report.

PID denied the petition for exclusion as noted in the 2/15 report.

The 2/15 report provided a thorough and reasonable case for a primary ground water right. It does not appear feasible or cost-effective to maintain use of Dixie Drain water. Water from PID cannot be reasonably utilized as noted in the file information. Even if PID water could be used, the same problems would be present since PID water would be delivered via Dixie Drain.

Ground water levels in the vicinity appear stable. IDWR's "hydro.online" site confirms the following well information for T4N R3W:

24ACB1	stable since 1980
27AACD1	stable since mid-1990s
28ADDD1	stable since mid-1990s
30ADA1	stable since 1993
33DADC1	stable since 1998-2008, with about 5 ft. decline since then (marginal drop for 350+ ft. well).

An excessive irrigation rate is requested pursuant to Application Memo #60:

$$[(0.02 \text{ cfs/acre}) / (8 \text{ hr}/24 \text{ hr})] \times 19 \text{ acres} = 1.14 \text{ cfs.}$$

The application should be approved for primary ground water use with appropriate conditions to address the following points:

- Overlap and limits if use under 63-4614 resumes on the POU
- Continued payment of annual PID assessments (example from 65-22896 Rogers vs. Emmett Irrigation District)
- Supplemental ground water use if surface water use resumes on the POU (highly unlikely but possible).

Hornbaker, Sonny

From: Candice McHugh [cmchugh@mchughbromley.com]
Sent: Tuesday, June 03, 2014 1:45 PM
To: Hornbaker, Sonny
Subject: Cole Valley Christian School - Water App. 63-33951

Sonny,

It was great to speak with you today. I am writing you to request that this application be expedited if possible.

The school is trying to create a football/practice field and is relying on volunteers over the summer to complete the work. Therefore, we would like to get this application advertised as soon as possible so we can find out where we stand in order to resolve any issues. If you have any questions, please let me know.

Thank you very much!

Candice M. McHugh

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