



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098
Phone: (208) 327-7900 FAX: (208) 327-7866

September 21, 1998

RECEIVED

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

SEP 28 1998

Solar Farms Inc
68 N 500 E
Rupert ID 83350

Department of Water Resources
Southern Region

COPY

RE: Conditions of Transfer No. 5222 Water Right 45-02744B

Dear Wateruser:

The Department of Water Resources on June 23, 1998 approved transfer no. 5222 in your name. Conditions of approval of the transfer require that:

The right holder shall measure and annually report diversions of water and/or other pertinent hydrologic and system information as required by Section 42-701, Idaho Code.

This letter is further notice that measured is required. If you have not already installed measuring devices, you must install them and begin measuring within 56 days of the date of this letter, unless other arrangements are made with the department.

This letter is also to inform you that your diversion is located within the boundaries of the West ESPA Water Measurement District, and is included in the district's jurisdiction. Your annual diversion reports must be submitted to the measurement district, which will then compile and file diversion reports with the department. Staff from the measurement district will send reporting forms to you shortly.

Enclosed is a document titled Minimum Acceptable Standards for Measurement and Reporting of Surface and Ground Water Diversions. Please review the information carefully. If you have any questions, please call our southern region office at (208) 736-3033.

Sincerely,

Scott King

cc: Allen Merritt, West WMD
enc.

45-02744B

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
TRANSFER OF WATER RIGHT

TRANSFER NO. 5222
WATER RIGHT NO. 45-02744B

Saunders
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RECEIVED

JUN 26 1998

Department of Water Resources
Southern Region

This is to certify that: **SOLAR FARMS INC**
68 N 500 E
RUPERT ID 83350

has requested a change to the above captioned water right(s). This change in water right(s) is authorized pursuant to the provisions of Section 42-222, Idaho Code, provided the conditions listed below are met.

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
STOCKWATER	01/01 to 12/31	0.32 CFS	96.4 AF
COMMERCIAL	01/01 to 12/31	0.54 CFS	163.8 AF
	Totals	* 0.86 CFS	* 260.2 AF

SOURCE

GROUNDWATER

Priority: 02/10/1960

LOCATION OF POINT(S) OF DIVERSION:

SWSW , Sec. 33, Township 09S, Range 25E
CASSIA County

PLACE OF USE: STOCKWATER

TWN RGE SEC

09S 25E 33

NWSW

SWSW

PLACE OF USE: COMMERCIAL, same as STOCKWATER use

CONDITIONS OF APPROVAL AND REMARKS

1. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
2. The right holder shall measure and annually report diversions of water and/or other pertinent hydrologic and system information as required by Section 42-701, Idaho Code.
3. Use of water under this approval shall comply with applicable water quality standards of the Division of Environmental Quality of the Idaho Department of Health and Welfare.
4. The dairy operation authorized under this approval shall comply with applicable county zoning and use ordinances.

45-02744B # 5222

AD-

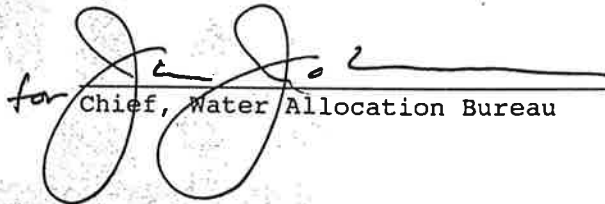
TRANSFER NO. 5222
WATER RIGHT NO. 45-02744B

COPY

CONDITIONS OF APPROVAL AND REMARKS

5. The right holder shall accomplish the change authorized by this transfer within one (1) year of the date of this approval.
6. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
7. Approval of this transfer does not preclude the opportunity for review of the validity of the water right(s) in the ongoing Snake River Basin Adjudication.
- * 8. The total instantaneous diversion of water from all points of diversion under Transfer 5222 shall not exceed 0.86 cfs, nor a total combined annual volume of 260.2 af.
9. The remainder of Right 45-02744 is identified as 45-02744A and is limited to a diversion rate of 3.44 cfs, an annual diversion volume of 1011.6 af, and irrigation of 252.9 acres each year.
10. The acres which are no longer authorized for irrigation under Right 45-02744A are specifically described as follows: 25.1 acres in NWSW, and 40.0 acres in SWSW, S33, T09S, R25E.
11. Two points of diversion are located within SWSW, S33, T09S, R25E.

Dated this 23rd day of June, 1978.

for  _____
Chief, Water Allocation Bureau

MEMORANDUM

COPY

TO: File 45-02744

FROM: Pam Skaggs^{PS}/State Office

SUBJECT: Transfer 5222

DATE: June 9, 1998

Transfer 5222 changes the point of diversion, nature and season of use under a portion of Right 45-02744, splitting the right into Parts A and B. The dairy will be built on-site and 65.1 acres removed for irrigation to provide for the dairy uses.

The documentation of ownership provided was less than clear. A check with the Cassia county assessor's office found current owner of the land is Merle Jensen as identified on the tax notice. Mr. Walton appears on the tax notice and has been identified as a partner in Solar Farms, but no release from Mr. Jensen has been provided. Instead a release from Harold W. Terry as the lienholder has agreed to the transfer. I have requested documentation that shows that either the applicant has purchased the land, or that Mr. Jensen approves of the change prior to forwarding the transfer approval. ✓ Received 6-23-98

Season of use was adjusted to year round dairy uses. Recommended conditions include drilling permit requirements, measuring/annual reporting, water quality, zoning, diversion limits, remaining irrigation portion limits, acres no longer authorized irrigation and standard transfer conditions.

Change in Nature of Use Evaluation

	<u>Rate</u>	<u>Use</u>	<u>Acres</u>	<u>Div. Vol./C.U. Vol.</u>
45-02744	4.20 cfs	Irr	318.0 acres	(1272.0 afa/ 954.0 afa)
45-02744A	3.34 cfs	Irr	252.9 acres	(1011.6 afa/ 758.7 afa)
45-02744B	0.32 cfs	Stock (41.0 acres)		96.4 afa/ 13.3 afa)
	0.54 cfs	Comm (24.1 acres)		163.8 afa/ 16.0 afa)
	0.86 cfs	Dairy (65.1 acres)		260.2 afa/ 29.3 afa)
	4.20 cfs		252.9 acres	1271.8 afa/788.0 afa



State of Idaho

DEPARTMENT OF WATER RESOURCES

1341 Fillmore Street, Suite 200, Twin Falls ID 83301-3380

Phone: (208) 736-3033 FAX: (208) 736-3037

SOUTHERN REGION
December 20, 2006

JAMES E. RISCH
Governor

KARL J. DREHER
Director

Solar Farms
181 S 600 E
Rupert, ID 83350

RE: Your Dairy Located In The SW1/4 Sec. 33 T. 9S R. 25E, Cassia County

Dear Dan;

Matt Thompson of AgTec has asked me to write a letter concerning the proposed expansion of the hospital barn at this facility. As you will recall, Transfer 69069 was approved in 2001 to provide 1.39 cfs and 380.2 acre feet of ground water per year for the operation of this facility. Data supplied last week by AgTec indicates that the facility needs 179.1 afa to operate as proposed. The existing water rights on the property therefore appear to be more than adequate for a herd of 3100 milking cows, 500 dry cows, and 750 heifers.

If I can be of further assistance, feel free to contact me.

Regards,

James E. Stanton
Sr. Water Resource Agent

45-2744B

Stanton, Jim

From: Matthew Thompson [matt@agtec.us]
Sent: Tuesday, December 19, 2006 2:44 PM
To: Stanton, Jim
Subject: Letter for Cassia County

Jim,

If possible I would like to kindly request a letter from you for Cassia County for a permit I'm working on for East Ridge Milk. We are in the process of increasing the permitted cow numbers for the hospital parlor for that facility. From my calculations they have more than enough water existing on the facility for this expansion. I've attached the water rights printout and my estimates on the water needs of the expansion.

The ordinance requires use to get "a writing from the department of water resources of the state of idaho, including a profile of all water rights necessary for the operation of the confined animal feeding operation"

I think I've given you the info you need but if you need something else let me know.

Thanks

~~~~~  
Matthew W Thompson P.E.  
Office: 208-733-6372 ext 203  
Cell: 208-731-8640  
Fax: 208-735-5955  
email: [matt@agtec.us](mailto:matt@agtec.us)  
~~~~~

12/20/2006

Dairy Water Use Requirements

Date 12/13/2006



Owner/Operator Info		Facility Info
Name:	East Ridge Milk	East Ridge Milk
Address:	0	0
Telephone:	0	0
Fax:	0	0
City:	0	0
State:	0	0
Zip Code:	0	0
County:	Cassia	Cassia
GPS - Latitude	0	0
Longitude	0	0

Dairy Stock Water Requirements

Water Use estimates are based on Producer Determined level of milk production

Animal Type	# of Animals	Animal Weight (lbs)	Animal Units	Drinking Requirement (gal/hd/day)	Drinking Requirement (gal/day)	Total Drinking (gal/yr)	Reference
Lactating cow	3,100	1,400	4,340.0	35.0	108,500	39,602,500	PRODUCER INFORMATION
Dry Cow	500	1,400	700.0	16.0	8,000	2,920,000	PRODUCER INFORMATION
Heifer	750	1,000	750.0	12.0	9,000	3,285,000	PRODUCER INFORMATION
none	0	0	0.0	0.0	0	0	0
none	0	0	0.0	0.0	0	0	0
none	0	0	0.0	0.0	0	0	0
none	0	0	0.0	0.0	0	0	0
Totals	4,350		5,790.0		125,500	45,807,500	

Stock water requirement in acre ft/ year

140.6

Stock water pumping diversion in cfs

0.194



Wash Water Sizing

Barn 1	Barn 2	Barn 3	Barn 1 Breakdown below	
2,500	600	0		
32	10	60		
78	60	0		
2	2	2 milkings/day		
1,250	300	0 Gal/day	2 milkings/day	0.25 Gal/cow/milking
3,000	250	0 Gal/day		
2,000	300	0 Gal/day	4 cycles/wash	250 gallons/cycle
0	0	0 Gal/day	0 gal/cycle	1 cycles/wash
800	400	0 Gal/day	20 gal/min.	20 min/milking
0	0	0 Gal/day	0 gal/min	0 Runtime sec. 156.25 cycles/day
12,000	0	0 Gal/day	2000 gal/min.	1 min/cycle 6 cycles/day
12,000	0	0 Gal/day	2000 gal/min.	1 min/cycle 6 cycles/day
1,000	800	0 Gal./day	20 Gal./min.	25 min./milking
0	0	0 Gal./day		0
200	100	0 Gal./day		
0	0	0 Gal./day		
32,250	2,150	0	Total Parlor Volume/day gallons	
776,070	51,738	0	180 Day Parlor Wash Volume ft3	
12,556,000 Gallons/year			Notes	
38.54 Acre Ft/year			0	
0.053 CFS				

Recyclable Water Use

	Barn 1	Barn 2	Barn 3	
Milking Parlor Throughput	320	100	0 Cows/hr	
Time Milking Per Day	15.6	12.0	0 hours/day	
Plate Cooler Water Use	28,125	7,200	- Gal/day	
Water Cooled Compressor	-	-	- Gal/day	
Water Cooled Vacuum Pump	-	-	- Gal/day	
	28,125	7,200	-	Total Cooling Parlor Volume/day in gallons

Water Use Evaluation

Clean Water Use	35325 Gal/day
Cow Drinking water use	125500 Gal/day
Commercial Parlor Use	34400 Gal/day
Net Excess Cooling Water	0 Gal/day
Yearly Parlor Cooling Volume (amount exceeding that recycled)	0.0 Acre Ft/year



Water Use Totals

Water Use estimates are based on Producer Determined level of milk production

Stock water Requirement	140.6 Acre Ft/yr
Commercial Parlor Use	38.5 Acre Ft/yr
Additional Cooling Use	0.0 Acre Ft/yr

Total Dairy Water Use Estimate
Total Diversion Rate

179.1 Acre Ft/yr

0.25 Cubic Feet/Second (CFS)

111.0 GPM

(this diversion rate is the minimum rate required to pump the
above water use estimate 24/7/365)