

WATER PERMIT NO. 2548-3²

Name of Applicant: Croell Redi-Mix, Inc.

Address: PO Box 1352, Sundance WY 82729

Phone: 307 283-2221

Amount of Water Claimed: 2.22 cfs (200 acre-feet)

Total Acres: NA

Source of Water Supply: Cheyenne River

Water to be used for: industrial use

County: Butte

Type of Waste Disposal System:

Location: 5 miles southeast of Hot Springs

PRIORITY

Date Received: 1-18-05

Application/License Fee: \$275

Corrected Application Received:

Period of Annual Use: January 1 – December 31

Remarks:

Diversion Point: ^ESW ¼ SE ¼ Sec 3-T8S-R6E

Land to be Irrigated: NA

Depth of Well: NA

Well Driller:

Remarks:

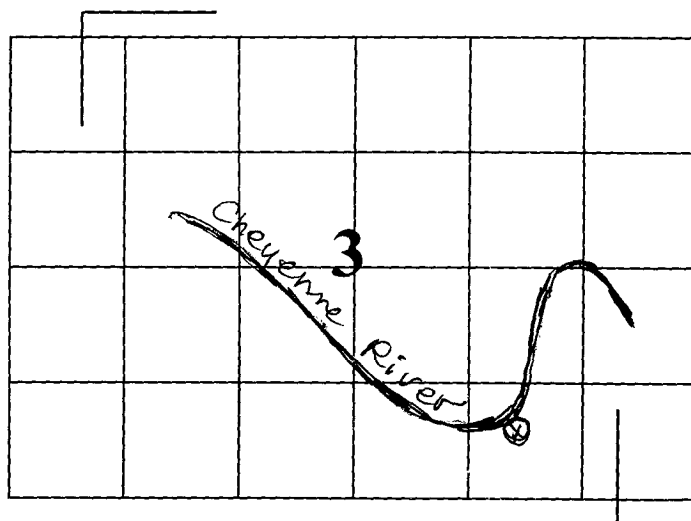
Type of Map: aerial

Prepared by: Thomas G Quinn, NRCS

Reviewed and the Number Assigned on: 1-18-05

By: Karen Schlaak

Notice of Hearing - date to intervene: _____



Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>2548-2</u> (office use only) Hydrologic Unit <u>10/20109</u>
	Basin <u>Upper Cheyenne</u>
	Newspaper <u>Hot Springs Star, Hot Springs</u>

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JAN 10 2005
WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water Within The State Of South Dakota

Check use(s) of water:

☐ Municipal	☐ Suburban Housing	☐ Recreational	☐ Institutional
☐ Rural Water System	☐ Commercial	☐ Fish & Wildlife	☐ Geothermal Heat
☐ Domestic (over 18 gpm)	☒ Industrial	☐ Other _____	

Type of Application: (check one)

☒ New ☐ Vested Right (Use predates Mar 2, 1955) ☐ Future Use Reservation
☐ Place to Beneficial Use Water Reserved by Future Use Permit No. _____
☐ Amendment/Correction to Permit No. _____

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)

N/A

- Name of Applicant CROELL REDI-MIX, INC Phone 307-283-2221
 (check one) ☒ Owner ☐ Tenant/lessee
 Mailing Address PO BOX 1352 SUNDANCE State WY 82729
 (Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 2.22 *CFS or 1000 **GPM 200 ***AF
 (*Cubic Feet per Second) (**Gallons per Minute) (**Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply CHEYENNE RIVER
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County FALL RIVER
Diversion Point - SW 1/4 Section 3, Township 8S, Range 6E.
~~NE SECTION CORNER OF 11, TOWNSHIP 8S, RANGE 6E DIVERSION POINT~~
~~IS 1000' NW OF REFERENCE POINT~~ Diversion point is 1100' Nw of Southeast
corner of Section 3, Township 8S; Range 6E.
- County or counties where water will be used FALL RIVER
- Annual period during which water is to be used 2005 Jan 1 - Dec 31
- Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

PLEASE SEE ATTACHED

STATE OF SOUTH DAKOTA)

County of FALL RIVER) SS

Attachments: Attach Form 2A if diversion is from a well or dugout, or if storage of water is proposed. Attach map and any other technical information. (see instructions)

I, Brian Marchant, the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.

Applicant's signature B. Marchant

Subscribed and sworn to before me this 13 day of January 20 05

Rebecca R. Hughes
Notary Public signature



SOUTH DAKOTA
WATER PERMIT NO. 2548-2

Date of first receipt of application January 18, 2005.

The Water Management Board approved Water Permit No. 2548-2 on May 4, 2005 for Croell Redi-Mix, Inc., PO Box 1352, Sundance WY 82729 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 2548-2 appropriates 2.22 cubic feet of water per second (200 acre-feet annually) from the Cheyenne River located in the SE ¼ SE ¼ Section 3-T8S-R6E.
2. The water appropriated shall be used for the purpose of industrial use in a sand and gravel washing operation and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 - December 31.
4. The date from which applicant may claim right is January 18, 2005.
5. One-fifth of the construction is to be completed on or before November 4, 2007.
6. All construction is to be completed on or before May 4, 2010.
7. Water is to be put to beneficial use on or before May 4, 2014.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed. This permit does not authorize diversion of water from the Cheyenne River at any time when the river flow is low, unless written orders have been issued by the Chief Engineer. Diversions under this permit shall be in accordance with any written orders issued by the Chief Engineer.
2. Permit No. 2548-2 authorizes diversion of water from the Cheyenne River only to the extent necessary to replenish the holding/settling ponds for losses due to evaporation and dust control purposes. Water shall be re-circulated through the holding/settling ponds and reused to minimize the need to make Cheyenne River diversions.

WATER MANAGEMENT BOARD

By: Garland Erbele

Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

MAY 17 2005

date



(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter _____ Depth _____
- b) Casing Type _____ Diameter _____ Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:
On applicants property _____ On property owned by others _____

2. Wastewater Disposal System Information

- a) Type of System (i.e. septic tank, drain field) _____
- b) System Capacity (gallons) _____ Year Constructed _____
- c) Connected to the City of _____ Sanitary System

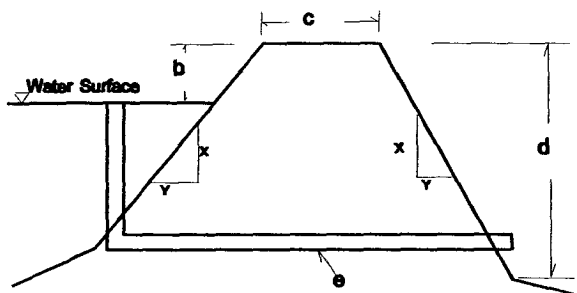
3. Dugout Information

- a) Surface Dimensions 100' x 100' Depth 15'
- b) Depth to water (ground surface to water level) 10'

4. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

- a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:



- b) Freeboard _____
- c) Crest Width _____
Crest Length _____
- d) Height _____
- e) Primary Outlet Capacity _____
If pipe, diameter _____
- f) Secondary Spillway Capacity _____
Spillway Width _____
- g) X & Y Slope _____
Upstream _____
Downstream _____
- h) Surface Area of Impoundment _____
- i) Storage _____ Acre Feet
- j) Drainage Area Above Dam _____ Acres

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date January 18, 20 04

RECEIVED OF Groell Redi-Mix Inc., PO Box 1352, Sundance Wy 82729

The following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. <u>2547-2</u> to Appropriate Water, to construct and to put water to beneficial use	225	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>2548-2</u>	50	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	275.00

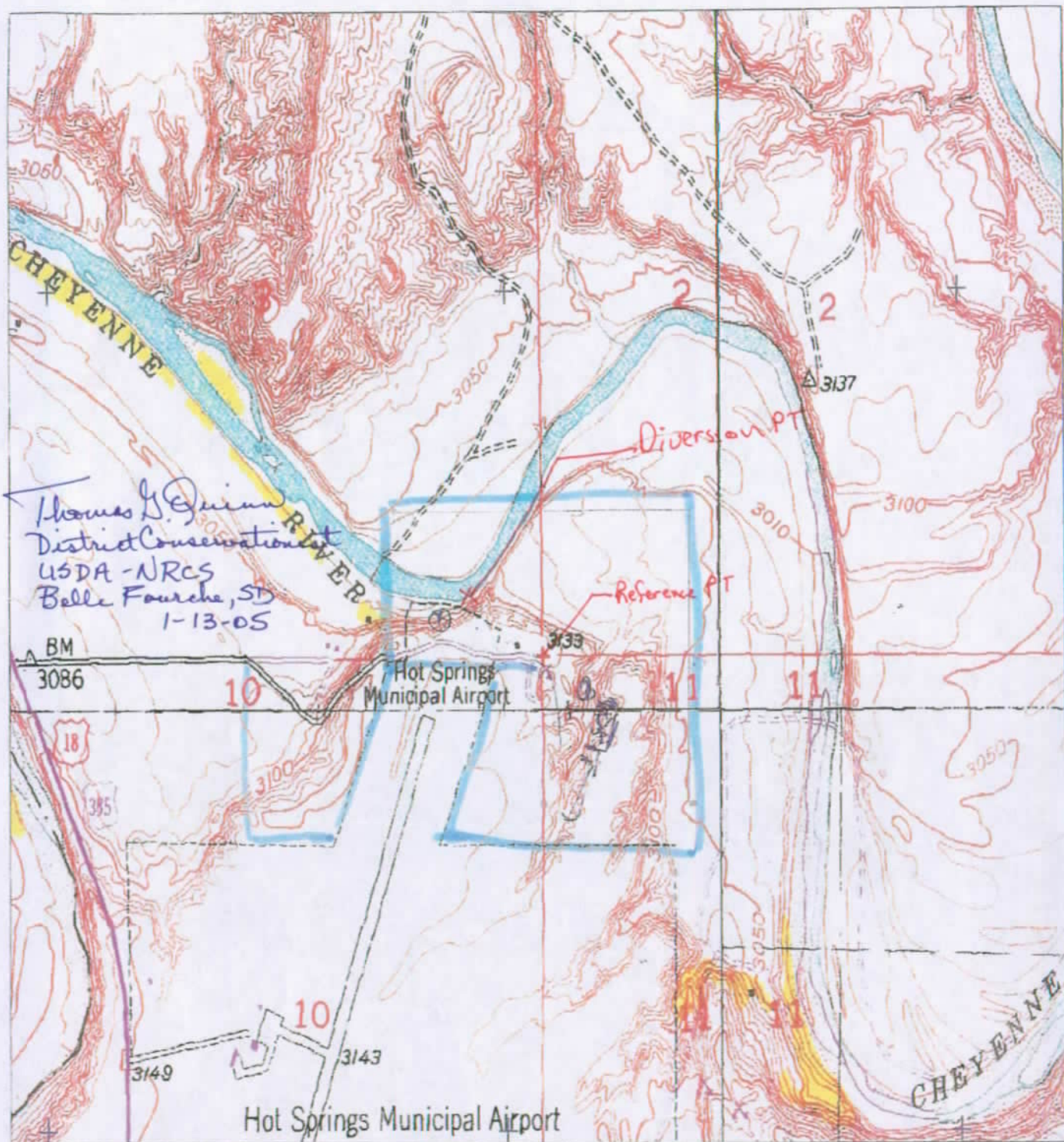
No.

001011

By

Darlene Eide
Chief Engineer
gm

Section 10 T8S, R6E
Creek Land 773-4201



Croell Redi-Mix, Inc.
2719 South Highway 585
PO Box 1352
Sundance, WY 82729

RECEIVED
JAN 25 2005
WATER RIGHTS
PROGRAM

Phone: 307.283.2221

Fax: 307.283.1450

January 20, 2005

South Dakota DENR
Foss Building
523 East Capitol
Pierre, SD 57501

RE: Water Permit Applications

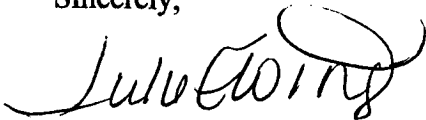
Dear Don Stroup:

Please find enclosed two copies of our intended operations for the Cheyenne and Belle Fourche Rivers.

In you need any further information or have any questions regarding these maps, please contact myself or Brian Marchant at the above regional office.

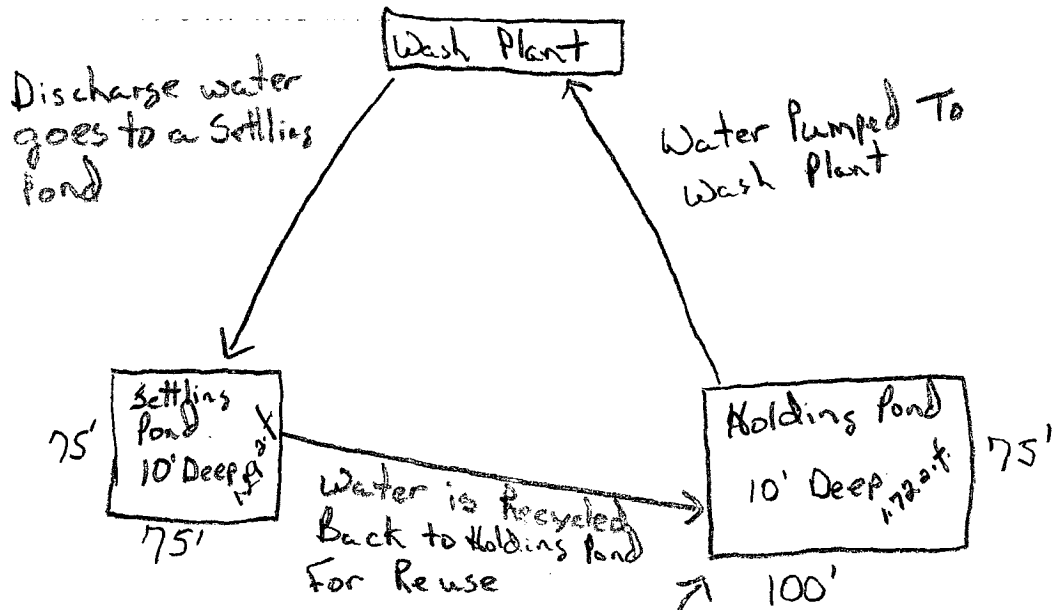
Thank you in advance for your assistance in this matter.

Sincerely,



Julie Ewing
Safety and Health Director
Croell Redi-Mix, Inc.

Cheyenne River / Maverick Jet Pit



Cheyenne River

January 12, 2005

To Whom It May Concern:

We are applying for a permanent water permit for a sand washing plant in the Hot Springs SD area. We intend to use a 6" centrifugal water pump to transfer water from the Cheyenne river to a portable wash plant located nearby. The discharge water will be collected in a large settling pond before returning to the river.

We expect to operate for 3-4 months out of the year during the summer months. We expect to use 150 to 200 acre feet of water a year. The majority of the water will be returned to the river after the solids have settled out of it.

If you have any question feel free to call 307-283-2221.

Sincerely Yours,

A handwritten signature in black ink, appearing to read 'B Marchant', with a stylized flourish at the end.

Brian Marchant
Regional Manager
Croell Redi-Mix



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

March 8, 2005

Brian Marchant
Croell Redi-Mix Inc.
PO Box 1352
Sundance WY 82729

Dear Mr. Marchant:

Please find enclosed the reports, recommendations and public notices for the three applications submitted by Croell Redi-Mix. Each application has a separate cover letter instructing you to review the material and contact the newspaper to authorize publication of the notice. Since the applications are in different counties a separate public notice is needed and you will need to contact the newspapers as set forth in the cover letter for each application.

Please pay close attention to Application No. 1831-1 which proposes to appropriate water from the Belle Fourche River. The Chief Engineer's recommendation is for denial of this application.

If you have any questions, please feel free to contact me.

Sincerely,

Eric Gronlund
Water Rights Program, DENR
(605) 773-3352

enclosure

REPORT ON WATER PERMIT APPLICATION 2548-2

Croell Redi-Mix, Inc.

PO Box 1352

Sundance, WY 82729

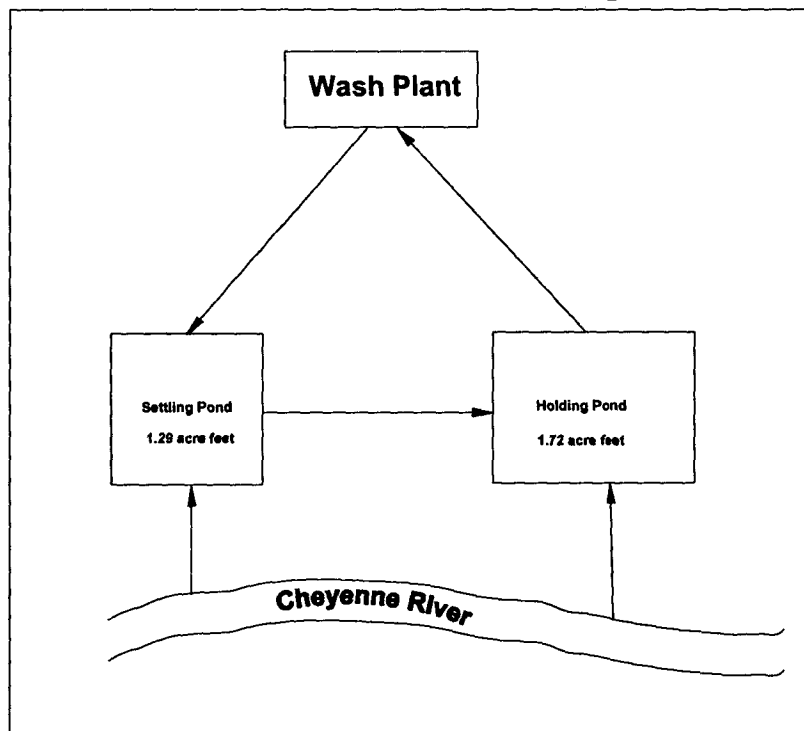
(307)283-2221

Water Permit Application No. 2548-2, Croell Redi-Mix, Inc., proposes to appropriate 2.22 cubic feet per second (cfs) of water from the Cheyenne River approximately 1.25 river miles downstream of the Fall River confluence in Fall River County, SD for a sand and gravel washing operation. (Attachment 1) The annual period of use requested is from January 1 to December 31. The wash water will be re-circulated through holding and settling ponds and augmented with river water as needed to replace losses due to evaporation and dust control use. The applicant estimates 200 acre-feet of water will be used annually.

Proposed Project

The applicant proposes to construct a 100x75-foot holding pond and a 75x75-foot settling pond, both 10-feet deep, holding approximately 1.72 acre-feet and 1.29 acre-feet of water respectively. Water will be pumped from the Cheyenne River at the proposed rate of 2.22-cfs into the holding and settling ponds at the beginning of the operating season. The holding pond water will be pumped to the wash plant and then to the settling pond during the washing procedure. After the sediments settle out, the water will be returned to the holding pond for further use. The water in the holding pond will be augmented as needed with Cheyenne River water to replace evaporation losses and water used for dust control at the site. (Schematic 1)

Schematic 1. Generalized Site Configuration



The water source for the proposed project is the Cheyenne River in the SW¼ SE¼ Section 3 T8S R6E, approximately 6 river miles downstream of the Angostura Dam in Fall River County, SD. Rising in the high plains of Wyoming in the Thunder Basin National Grasslands, the Cheyenne River meanders around the southern end of the Black Hills entering South Dakota about 14 miles northwest of the town of Edgemont, SD. The river then passes through narrows south of Hot Springs, SD, the location of Angostura Dam. Construction of Angostura Dam, part of the Angostura Unit irrigation system, was completed in 1949. The Bureau of Reclamation (BOR) holds South Dakota Water Right No. US579-2 for an annual one-time fill of 138,761 acre-feet of water stored in Angostura Reservoir for irrigation of 12,218 acres, and for fish, wildlife, recreation, and other purposes. Since October 1949 the flow in the Cheyenne River downstream of Angostura Dam has been regulated primarily to serve the irrigation needs of the Angostura Irrigation District. Water is diverted directly from Angostura Reservoir and delivered through a main canal to the Irrigation District. Average releases to Irrigation District lands are about 40,000 acre-feet per year providing an average onsite delivery of 2.5 acre-feet/acre.

Seepage past the dam, flows from tributaries, and return water flows from the Irrigation District distribution system presently fulfill downstream State water rights and domestic use.

Fed by thermal springs and wells, Fall River's base stream flow normally does not vary far from the median rate throughout the year (Table 1). The steady flow from Fall River, return water flows from the Irrigation District, and flow from other tributaries fulfill State water rights and domestic use downstream of the Fall-Cheyenne Rivers' confluence.

Percentile	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
10	20	20	20	19	20	20	21	21	21	21	21	21
25	22	22	22	21	21	22	22	22	22	22	22	22
50	23	24	24	22	22	24	24	24	24	23	24	24
75	26	26	26	26	26	26	26	26	26	26	26	26
90	29	29	30	29	29	29	29	29	29	30	29	29

An Environmental Impact Statement (EIS), in compliance with the National Environmental Policy Act, was prepared in 2002 by BOR in conjunction with renewal of the Angostura Irrigation District contract. This EIS analyzed the impacts of four (4) water management alternatives; 1) No Action, 2) Re-establishment of Natural Flows below Angostura Dam, 3) Improved Efficiencies in the Irrigation District's System, and 4) Reservoir Recreation and Fisheries. Improved Efficiencies was selected as the preferred alternative for the management of Angostura Dam and the Irrigation District.

The Improved Efficiencies alternative within the Irrigation District includes measures such as lining canals and laterals, putting laterals into pipes, improving water measuring devices, leveling fields, irrigating by gated pipe or sprinkler, etc., with estimated water saving increases of 5-percent for the delivery system and 10-percent for on-farm efficiency. Saved water could be used for recreation, fisheries, downstream flows, or other purposes. Although return flows from the Irrigation District will lessen, a 10-percent on-farm efficiency improvement would not be expected to significantly change the Cheyenne River's flow rates during the normal irrigation season.

Consultations between BOR, the State of South Dakota, and the Irrigation District on implementation of the Improved Efficiencies alternative and other measures pertinent to water management practices within Angostura Unit are presently in progress.

From 1968 to 1980 USGS maintained a stream flow gaging station east of Buffalo Gap, SD downstream of this proposed project. The limited historical data from this gage for the June through August interval, when Cheyenne River flows are mainly regulated by output to the Irrigation District from Angostura Dam, indicate there is a 50-percent probability the median flow rate at the proposed project site will range from 45 to 58-cfs or greater during this interval of any given year. There is a 75-percent probability the median flow rate will range from 34 to 47-cfs or greater for the same interval at this location. (Table 2)

Table 2. Buffalo Gap Monthly Median Flow (cfs)

Percentile	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
10	41	57	55	46	43	36	39	39	56	62	60	41
25	48	60	60	52	49	41	34	47	62	64	65	54
50	58	65	66	60	59	52	45	58	66	70	71	64
75	66	72	89	90	74	84	58	67	78	74	74	71
90	70	91	158	154	235	159	82	80	88	81	80	76

Since 1998 USGS has maintained a stream flow gaging station at Red Shirt, SD downstream of this proposed project and 12 river miles downstream of the last Irrigation District wasteway at the mouth of Cottonwood Creek. Data through 2002 from this gaging station are high flow rate biased since these years experienced above normal precipitation in the Upper Cheyenne River Basin. Limited data from this gaging station for the June through August interval, when Cheyenne River flows are mainly regulated by output to the Irrigation District from Angostura Dam, indicate there is a 50-percent probability the median flow rate will range from 78 to 97-cfs or greater downstream of the proposed project during this interval of any given year. There is a

75-percent probability the median flow rate will range from 69 to 91-cfs or greater for the same interval at this location. (Table 3)

Table 3. Red Shirt Monthly Median Flow (cfs)

Percentile	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
10	67	61	112	112	120	87	63	64	81	98	86	66
25	70	65	141	123	190	91	69	72	85	104	98	80
50	71	72	198	151	309	97	78	87	89	115	113	104
75	99	98	214	466	363	441	139	114	113	150	506	99
90	111	113	233	670	390	627	165	129	123	171	736	140

USGS Wasta, SD stream flow gaging station data from 1950 through 2002 indicate there is a 50-percent probability the median flow rate in the Cheyenne River at this location will range from 104 to 272-cfs or greater during the June through August interval of any given year. There is a 75-percent probability the median flow rate will range from 66 to 93-cfs or greater for the same interval at this location. (Table 4)

Table 4. Wasta Monthly Median Flow (cfs)

Percentile	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
10	30	50	102	78	60	53	47	47	51	62	70	45
25	48	78	146	117	95	93	72	66	73	84	93	73
50	80	110	240	214	237	272	142	104	100	112	119	100
75	135	179	471	383	623	925	353	176	152	168	160	130
90	220	349	867	839	1560	2130	725	425	282	279	292	230

The presumption can be made that the stream flow rates recorded at the cited gaging stations are post withdrawal of the majority of those Water Right allocations upstream of the gage's location during the normal irrigation season.

Existing Water Rights

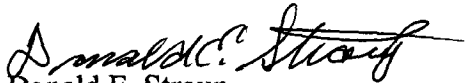
Downstream of this proposed project's location to Red Shirt, SD there are eighteen (18) Water Rights with diversions totaling 49.81-cfs. From Red Shirt to Wasta, SD there are eight (8) Water Rights with diversions totaling 22.35-cfs.

In 1989 and 1990 shutoff orders for junior water rights were issued for the Angostura Dam to Wasta, SD reach of the Cheyenne River due to severe drought conditions.

Except during severe drought conditions in the Upper Cheyenne River Basin, historical USGS stream flow data indicate this project's proposed intermittent pumping of Cheyenne River water at the rate of 2.22-cfs to replenish the holding pond should not adversely impact any of the present water rights or domestic water use along this reach of the Cheyenne River.

Conclusions

1. Water Permit Application No. 2548-2, Croell Redi-Mix, Inc., proposes to appropriate 2.2-cfs of water from the Cheyenne River in Fall River County, SD for a sand and gravel washing operation. The water will be re-circulated through holding and settling ponds and augmented as needed to replace losses due to evaporation and dust control use on the site.
2. Except for severe drought conditions in the Upper Cheyenne River Basin, historical USGS stream flow data indicate this project's proposed intermittent pumping of Cheyenne River water at the rate of 2.22-cfs to replenish the holding pond should not adversely impact any of the present water rights or domestic water use along the reach of the Cheyenne River from the project's location to Wasta, SD.
3. Implementation of the BOR's Improved Efficiency Alternative with a 10-percent on-farm improvement should not significantly change the Cheyenne River's flow rates from Angostura Dam to Wasta, SD during the normal irrigation season.
4. Under extremely dry climatic conditions, the availability of water for downstream domestic use and senior water rights may be limited. During such conditions the applicant may be required by the Chief Engineer to limit or stop diversions from the Cheyenne River in order to protect these uses.



Donald E. Stroup

Natural Resources Project Engineer
DENR Water Rights Program

Reviewed by:



Mark D. Rath
Natural Resources Engineering Specialist
DENR Water Rights Program

References:

South Dakota Department of Environment and Natural Resources, Water Rights Program Records

Bureau of Reclamation, Angostura Unit Contract Negotiation, and Water Management Draft Environmental Impact Statement

U.S. Geological Survey, NWISWeb National Water Information System, Historical Stream Flow Data for South Dakota

Communications with Bureau of Reclamation Personnel, Angostura Unit

2548-2
Croell Redi-Mix, Inc.
PO Box 1352
Sundance, WY 82729
(307)283-2221

Fall River
Confluence

Diversion
Point

Hot Springs
Municipal Airport

Angostura
Reservoir


Donald E. Stroup
Donald E. Stroup
Natural Resources Project Engineer
DENR Water Rights Program

Attachment 1



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 2548-2, Croell Redi-Mix, Inc.**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 2548-2, Croell Redi-Mix, Inc., c/o Brian Marchant, PO Box 1352, Sundance WY 82729.

The Chief Engineer is recommending APPROVAL of Application No. 2548-2 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualification:

1. Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed. This permit does not authorize diversion of water from the Cheyenne River at any time when the river flow is low, unless written orders have been issued by the Chief Engineer. Diversions under this permit shall be in accordance with any written orders issued by the Chief Engineer.
2. Permit No. 2548-2 authorizes diversion of water from the Cheyenne River only to the extent necessary to replenish the holding/settling ponds for losses due to evaporation and dust control purposes. Water shall be re-circulated through the holding/settling ponds and reused to minimize the need to make Cheyenne River diversions.

See report on application for additional information.

Garland Erbele, Chief Engineer
March 7, 2005

NOTE: This water permit, if approved, will be a junior water right subject to shut-off orders. Dry conditions can result in low flows in the Cheyenne River that will require Croell Redi-Mix to cease pumping. It is in Croell Redi-Mix's interest to fill the ponds in the spring when high flows generally occur in order to have water to recirculate from the ponds in the event that a Cheyenne River shut-off order is issued.

AFFIDAVIT OF PUBLICATION

State of South Dakota)
) ss.
County of Fall River)

Brett Nachtigall of Hot Springs, Fall River County, South Dakota, being duly sworn, upon oath says that he is the publisher of the Hot Springs Star, is a legal newspaper, as defined in SDCL 17-2-2.1 through 17-2-2.4 inclusive, and is published at Hot Springs, county and state aforesaid; that the advertisement headed —

239- Notice of
Hearing

a true printed copy thereof is hereunto annexed, was published in the said Hot Springs Star, in the regular and entire issue of said paper,

for two

successive issues, beginning with the issue dated

March 15, 2005

and ending with the issue dated

March 22, 2005

That the full amount of the fee charged for the publication of said notice is \$ 60.66, and that no agreement or understanding, for the division thereof, has been made with any other person, and that no part thereof has been agreed to be paid to any person whomsoever, that the whole amount insures to the benefit of the publishers of said newspaper.

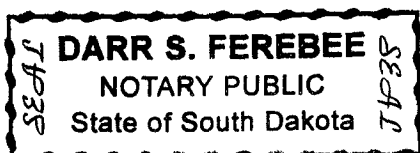
Brett Nachtigall
Subscribed and sworn to before me

this 6 day of April

20 05

Darr S. Ferebee

My Commission Expires Notary Public
November 24, 2010



RECEIVED
APR - 7 2005
WATER RIGHTS
PROGRAM

JK

239 NOTICE OF HEARING on Application No. 2548-2 to Appropriate Water

Notice is given that Croell Redi-Mix, Inc., PO Box 1352, Sundance WY 82729 has filed an application for a water permit to appropriate 2.22 cubic feet of water per second (200 acre-feet annually) from the Cheyenne River located in the SE 1/4 SE 1/4 Section 3-T8S-R6E. The water is for industrial use in a sand and gravel washing operation.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2548-2 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest.

Any person interested in opposing or supporting this application must file a written petition with BOTH the applicant and Chief Engineer. The applicant must also file a petition if opposed to the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by April 22, 2005. The petition may be informal, but must include a statement describing the

petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

The Water Management Board will consider this application at 9 a.m. May 4, 2005 in the Matthew Training Center, Foss Building, 523 E. Capitol, Pierre SD. The Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny this application based on the facts presented at the public hearing. The May 4, 2005 hearing date will be automatically delayed for at least 20 days upon written request to the Chief Engineer from the applicant or any interested person opposing the application. The request for an automatic delay must be filed by April 22, 2005.

Any hearing may be an adversarial proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer and may present evidence or cross-examine witnesses according to SDCL 1-26. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. Contact Eric Gronlund by April 22, 2005, at the above Water Rights Program address to request copies of information pertaining to this application, to assure access to the hearing by the handicapped or to obtain an interpreter for the hearing impaired.

Since this application does not involve a monetary controversy in excess of \$2,500.00 or termination of a property right in accordance with SDCL 1-26-18.3, the Chief Engineer has determined this contested case may not be referred to the Office of Hearing Examiners. If any party disagrees with this determination, the Chief Engineer shall be notified by April 22, 2005.

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-16; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15, 46-2A-20, 46-2A-21; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14, 46-6-26; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Mar. 15, 22



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATES, CONTACT
THE NEWSPAPER RIGHT AWAY.

March 8, 2005

Croell Redi-Mix Inc
%Brian Marchant
PO Box 1352
Sundance WY 82729

Dear Mr. Marchant:

Water Permit Application No. 2548-2 for industrial use in Fall River County has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Publisher of the Hot Springs Star printed at Hot Springs City SD (Ph# 605 745-4170). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and the report on this application is enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization, the publisher has been instructed to publish your notices once each week for two consecutive weeks. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

NOTE: If you plan to contest any part of the Chief Engineer's recommendation, you must file a petition pursuant to the procedures outlined in the attached notice of hearing. The Water Management Board will then consider your concerns during a hearing on the application.

Instruction to Newspaper - Publish first Notice on March 15, 2005 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 2548-2 to Appropriate Water

Notice is given that Croell Redi-Mix, Inc., PO Box 1352, Sundance WY 82729 has filed an application for a water permit to appropriate 2.22 cubic feet of water per second (200 acre-feet annually) from the Cheyenne River located in the SE ¼ SE ¼ Section 3-T8S-R6E. The water is for industrial use in a sand and gravel washing operation.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2548-2 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest.

Any person interested in opposing or supporting this application must file a written petition with BOTH the applicant and Chief Engineer. The applicant must also file a petition if opposed to the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by April 22, 2005. The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

The Water Management Board will consider this application at 9 a.m. May 4, 2005 in the Matthew Training Center, Foss Building, 523 E. Capitol, Pierre SD. The Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny this application based on the facts presented at the public hearing. The May 4, 2005 hearing date will be automatically delayed for at least 20 days upon written request to the Chief Engineer from the applicant or any interested person opposing the application. The request for an automatic delay must be filed by April 22, 2005.

Any hearing may be an adversarial proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer and may present evidence or cross-examine witnesses according to SDCL 1-26. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. Contact Eric Gronlund by April 22, 2005, at the above Water Rights Program address to request copies of information pertaining to this application, to assure access to the hearing by the handicapped or to obtain an interpreter for the hearing impaired.

Since this application does not involve a monetary controversy in excess of \$2,500.00 or termination of a property right in accordance with SDCL 1-26-18.3, the Chief Engineer has determined this contested case may not be referred to the Office of Hearing Examiners. If any party disagrees with this determination, the Chief Engineer shall be notified by April 22, 2005.

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-16; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15, 46-2A-20, 46-2A-21; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14, 46-6-26; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

March 8, 2005

Hot Springs Star
PO Box 1000
Hot Springs SD 57747-1000

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 2548-2 to Appropriate Water to be published twice. Please publish the first notice on March 15, 2005 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published, before you make the first publication. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Croell Redi-Mix Inc., % Brian Marchant, PO Box 1352, Sundance WY 82729 (Ph # 307-283-2221).

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, **please send us an affidavit or use the enclosed Proof of Publication form.** The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,

Eric Gronlund
Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

No. 2548-2

TO: Eric Gronlund
Water Rights Program
Joe Foss Building
Pierre SD 57501-3181

Date _____

We are in receipt of your letter of March 8, 2005 enclosing Notice to Appropriate Water by Application No. 2548-2 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

MAY 17 2005

Croell Redi-Mix Inc
PO Box 1352
Sundance WY 82729

Dear Sir:

Enclosed are Water Permit Nos. 2547-2 & 2548-2 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

Form 10, *Notice of Completion of Works and Application of Water to Beneficial Use*, is enclosed. Please return this completed form after you have finished the system and have put the water to beneficial use. An investigation can then be scheduled so the water license may be issued, thus completing the acquisition of a water right.

An informational sheet *Common Water Right Questions?* is also enclosed. This sheet is intended to answer some of the questions associated with obtaining and keeping a water right.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

Croell Redi-Mix, Inc.
2719 South Highway 585
PO Box 1352
Sundance, WY 82729

Phone: 307.283.2221

Fax: 307.283.1450

May 25, 2005

Department of Environment and Natural Resources
PMB 2020
Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3182

RECEIVED
MAY 31 2005
WATER RIGHTS
PROGRAM

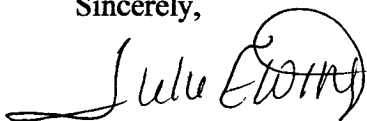
RE: Notice of Completion

Dear Garland Erbele:

Please find enclosed a Notice of Completion form for our Croell Redi-Mix, Inc. Cheyenne River locations near Wasta and Hot Springs. Please note that these plants have been constructed and have been operating with temporary water permits until the permanent permits were approved. At this time, we plan to be operating at these plants later this fall. Feel free to contact me later this summer if you require a more definite date.

In you need any further information or have any questions regarding these forms, please contact me at the above regional office.

Sincerely,



Julie Ewing
Safety and Health Director
Croell Redi-Mix, Inc.

NOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USE

Date 5/25/05

TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

RECEIVED

MAY 31 2005

WATER RIGHTS
PROGRAM

FROM: Croell Redi Mix Inc.
(name)

PO Box 1352
(address)

Sundance WY 82729
(city, state, zip)

307-283-2221
(phone)

I have completed the construction of the water use system and I have put the water to beneficial use to the maximum extent it is going to be used.

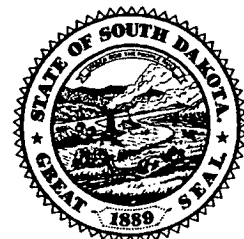
Water Permit No. 2548-2 states that the water use system is to be constructed by July 2004, and water is to be put to beneficial use by July 2004.
(date) (date)

The water use system was completed on July 2004.
(date)

Applying the water to beneficial use was completed on July 2004.
(date)

You may schedule an investigation so that the water license may be issued.

Julie [Signature]
(signature)





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

June 30, 2006

NOTICE OF SHUTOFF ORDER

TO: CROELL REDI-MIX INC
BRIAN MARCHANT
PO BOX 1352
SUNDANCE WY 82729

FROM: GARLAND ERBELE, Chief Engineer
Water Rights Program

SUBJECT: Cheyenne River Shutoff Order for Junior Priority Date Water Rights

Shutoff Order for Water Right Nos. 2548-2 2547-2

To protect the senior priority water rights, the department is issuing shutoff orders to junior water right holders with priority dates after January 1, 1970 from Angostura Dam to Belle Fourche River confluence. Effective immediately, no diversions of water from the Cheyenne River and tributaries will be allowed for those permits with a priority date after January 1, 1970.

Flow in the Cheyenne River has dropped to the point where domestic use of water, which includes livestock watering from the river, has become a concern. This order will be rescinded as soon as conditions improve. If conditions do not improve, this order will remain in effect until the end of the calendar year.

I am asking for your cooperation in complying with this shutoff order. The ongoing drought is creating hardship for all the water right holders along the river. If you have any questions, please contact Mark Rath or Lynn Beck with the Water Rights Program at (605) 773-3352. Thank you.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

September 5, 2006

2547-2 2548-2

CROELL REDI-MIX INC - BRIAN MARCHANT
PO BOX 1352
SUNDANCE WY 82729

Dear Sir:

This letter is to inform you that until further notice pumping **will be allowed** to continue under your junior priority water right(s) from the Cheyenne River. Due to recent rains and cooler temperatures, flow in the Cheyenne River has improved and appears to holding steady.

We will continue to monitor the daily stream flows. If flow conditions worsen and domestic use flow is again being impacted, DENR may be forced to again limit pumping.

The USGS maintains a website where you can view real-time stream flow measurements at several sites along the Cheyenne River and it's tributaries at the following web address:

<http://waterdata.usgs.gov/sd/nwis/rt>

If you have any questions, please contact Mark Rath or Lynn Beck with the Water Rights Program at (605) 773-3352. Thank you.

GARLAND ERBELE, Chief Engineer
Water Rights Program



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

March 5, 2007

Dear Water Right Holder;

Due to the ongoing drought I am advising Cheyenne River water right holders of the possibility of shutoff orders in 2007 for the river reach from Angostura Dam to the Belle Fourche River confluence. This is **not a shutoff order**.

As a result of the continuing lack of precipitation, tributary flows throughout the Cheyenne River basin remain well below the historical average. Angostura Reservoir ended February almost 21-feet below full and the forecast for improved conditions throughout the summer months is not favorable.

This letter is only intended to give you advanced warning that your ability to divert water may be cut short this year. If shut-off orders are issued, you will receive another letter from the department. In the meantime, water right holders can help by closely monitoring water usage and trying to avoid wasting water.

South Dakota water law gives the highest priority to domestic use, which includes livestock watering. There is generally adequate water available to meet both domestic use and other needs. However, once water availability reaches critical low levels, other uses, including irrigation, will begin to interfere with domestic use. If levels become critically low, the department must issue shut-off orders to protect domestic water uses. Once these orders are issued, the department will continue to monitor water availability and should conditions improve, the shutoff orders would be rescinded.

If you are interested, the US Geological Survey has an Internet site showing river flows at 150 stream gauging stations across the state. Go to sd.water.usgs.gov and click on "Realtime streamflow data via satellite".

Thank you for your cooperation. If you have any questions, please contact Mark Rath or Mike DeFea at (605) 773-3352.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

NOTICE OF SHUTOFF ORDER

June 27, 2007

TO: CROELL REDI-MIX INC
BRIAN MARCHANT
PO BOX 1352
SUNDANCE WY 82729

FROM: GARLAND ERBELE, Chief Engineer
SD DENR Water Rights Program

SUBJECT: Cheyenne River Shutoff Order for Junior Priority Date Water Rights

Shutoff Order for Water Right Nos. 2547-2 (2548-2)

To protect the senior priority water rights, the department is issuing shutoff orders to junior water right holders with priority dates between January 1, 1970 and present for the river reach between the Angostura Dam to Belle Fourche River confluence. Effective immediately, diversions of water from the Cheyenne River and tributaries will not be allowed for those permits with a priority date after January 1, 1970.

Flow in the Cheyenne River continues to decline to the point where domestic use of water, which includes livestock watering from the river, has become a concern. This order will be rescinded as soon as conditions improve. If conditions do not improve, this order will remain in effect until the end of the calendar year.

The USGS maintains a website where you can view real-time stream flow measurements at several sites along the river, the web address is:

<http://waterdata.usgs.gov/sd/nwis/rt>

I am asking for your cooperation in complying with this shutoff order. The ongoing drought is creating hardship for all the water right holders along the river.

If you have any questions concerning this order, please contact either Mark Rath at (605) 773-3352 or Aaron Tieman at (605) 394-2229. Thank you.

Permit No. 2548-2
Fall River - Water District

Report of Examination of Works and/or Application of Water to Beneficial Use

TO: Chief Engineer, Water Rights Program, DENR, Foss Bldg., Pierre, SD 57501

I have this day, 11/24/2009, made a thorough examination of the water use system constructed by Croell Redi-Mix of P.O. Box 1352, Sundance, WY 82729 holder of Permit No. 2548-2, bearing the priority of 1/18/2005 authorizing the diversion of 2.22 cu. ft. per second of the waters of the Cheyenne River for industrial use purposes, in Fall River County.

Inspection contact & relationship to permit holder, if applicable: **Julie Ewing—Croell Redi-Mix representative**

A. Works used to divert the water:

Diversion Point:

Pump:

- 1) Make Berkeley
- 2) Model B4JQBH Serial#: G270602
- 3) Size 150 hp
- 4) Capacity 600 GPM

Motor:

- 1) Make John Deere
- 2) Model No. IIB JD 4045 200
- 3) Horsepower rating 150 hp

B. Works used to transport water to place of use:

- 1) Type PVC
- 2) Size 4 inches
- 3) Length ~1,800 feet

C. Works used to apply water to beneficial use:

Sand and gravel washing operation

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Yes
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period N/A

Report of Examination of Works

Permit No. 2548-2

3) Exceptions to compliance are: N/A

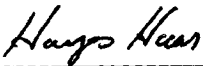
The system is in good condition with the point of diversion located as follows: **420 feet north and 1,045 feet west of the southeast corner of section 3, Township 8 South, Range 6 East with lat/long coordinates of 43.37718/-103.38592.** The works are capable of diverting and conveying to the place of use 1.34 cu. ft. per second of water which is to be used for industrial use. Water has been put to beneficial use to the maximum extent as follows:

The water is used to supply water to a sand and gravel washing operation and the license should be issued for 1.34 cfs (200 acre-feet annually).

All structures, wells and lands on map Yes

Comments or other permit(s) associated with the project:

--Water is pumped from the Cheyenne River to a holding pond. Then it is pumped to the operation's wash plant then to a settling pond.



Hayes Haas
Natural Resources Engineer
DENR, Water Rights Program

Date report completed: 5/4/2010

Permit 2548-2
Croell Redi-Mix, Inc.



0 0.25 0.5 Miles

Hayes Haas

Hayes Haas
Natural Resources Engineer
DENR Water Rights Program
November 2009



South Dakota



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

JUL 28 2010

2548-2

Julie Ewing
Croell Redi-Mix
PO Box 1352
Sundance WY 82729

Dear Ms. Ewing:

Enclosed is Water License No. 2548-2. The license is the final document which completes the process of obtaining a water right. Included with the license is a map prepared by the staff engineer who conducted the field investigation.

As long as you use the water beneficially, as stated in the Water License, State Water Laws provide that you have a continuing right to use the water.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 2548-2

(1) Croell Redi-Mix Inc., PO Box 1352, Sundance WY 82729 made Application No. 2548-2, January 18, 2005 for a water permit to divert 2.22 cubic feet of water per second (200 acre-feet annually) from the Cheyenne River, Fall River County, South Dakota for industrial use purposes. Permit No. 2548-2, with a priority date of January 18, 2005 was approved May 4, 2005 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before May 4, 2010 and for the application to beneficial use of said water on or before May 4, 2014.

The Permit holder submitted a "*Notice of Completion of Works and Application of Water to Beneficial Use*" on May 31, 2005. The "*Notice*" stated the water use system was completed and water placed to beneficial use in July, 2004.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 1.34 cubic feet of water per second (200 acre-feet annually) for beneficial use. The location of the diversion point is 420 feet north and 1,045 feet west of the SE corner of Section 3, T8N, R6E (SE ¼ SE ¼).

(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use for a sand and gravel washing operation.

(4) Pursuant to South Dakota Water Law 46-5-30.1 Croell Redi-Mix Inc., PO Box 1352, Sundance WY 82729 the holder and/or owner of Water Right No. 2548-2 is issued a license to appropriate water, the right to use 1.34 cubic feet of water per second (200 acre-feet annually) from the Cheyenne River with a priority date of January 18, 2005 from the location specified in (2) of this license for industrial purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 2548-2 and subject to the following qualifications:

- Low flows as needed for downstream domestic use, including livestock water and prior water rights must be bypassed. This permit does not authorize diversion of water from the Cheyenne River at any time when the river flow is low, unless written orders have been issued by the Chief Engineer. Diversions under this permit shall be in accordance with any written orders issued by the Chief Engineer.
- Permit No. 2548-2 authorizes diversion of water from the Cheyenne River only to the extent necessary to replenish the holding/settling ponds for losses due to evaporation and dust control purposes. Water shall be recirculated through the holding/settling ponds and reused to minimize the need to make Cheyenne River diversions.


Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

JUL 28 2010

date

