

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 25-14462
Exam Date: 08/20/2024

1. Current Owner:
HK CONTRACTORS INC PO BOX 51450 IDAHO FALLS ID 83405-1450
2. Accompanied by: Lamar Beck
Phone No: 208-317-8763
Address:
Relationship to permit Holder: Representative for the site, installed flow meter.

3. **SOURCE:**
GROUND WATER

Method of Determination: Beneficial use submitted and permit, saw well pump

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
25-14468	Groundwater	Industrial/Industrial Storage	Decreed

Comments: _____

2. Other water rights with the same point-of-diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
25-14468	Groundwater	Industrial/Industrial Storage	Decreed

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
GROUND WATER SE¼ SW¼, Sec. 33, Twp 03N, Rge 38E, B.M. BONNEVILLE County

Method of Determination: GPS, Field Exam

PLACE OF USE: INDUSTRIAL

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	38E	33												X			X		

Method of Determination: Field Exam

3.

- ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components.
☒ Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☐ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0075266		40			

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Flowmeter	Inline	McCrometer	DM04-PCGO	E23-05814	4"	

2. Measurements:

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: Installed magnetic flowmeter. Max rate of diversion observed for non-consumptive uses is 472 gpm.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} =$$

2. Volume Calculations for Other Uses:

See Volume Calculation sheet.

G. NARRATIVE/REMARKS/COMMENTS

The water system starts on the hill just south of the Cement Mixing station. A manhole is located here with access to 2 shut off valves and the flowmeter. Water can be turned on to the cement mixing plant and tanker fill station from one valve, and to fill the pond from the other valve. From the manhole, the water is diverted South then East and dumps into the South side of a horseshoe pond. Pond is filled from dry to full 1 time at the beginning of the season. Afterwards, this pond is topped off for 2 hours per day, 5 days per week during the operating season. On the South side of the pond, water is diverted from the pond using a 99 HP diesel pump. The water is pumped West to the Gravel Wash plant. Any excess water is diverted back into the North side of the horseshoe pond where it circulates back around to the South to allow for debris from the Gravel wash to settle and the water to be clean before reaching the diverting diesel pump.

From the Manhole a water line heads North to supply water for the cement mixing station. This same line provides water to wash out cement trucks after each use. The water used to wash the trucks and some runoff from the cement mixing drains into a pond and sinks into the ground. The captured water is not being used anywhere else.

From the Manhole a line diverts water West to fill tanker trucks for dust abatement.

Run off pond is small, water right 25-14468 mitigates for evaporative losses from ponds on site. However, mitigation volume is inadequate. Additional water rights are needed to cover additional consumptive uses at the facility. Evaporation losses are shown in the Pond ET excel sheet.

This Permit is for non-consumptive use. Attached to this report is a summary of the consumptive uses occurring at the facility (dust abatement, concrete mixing, evaporation from ponds). Currently, the industrial uses on the site consume approximately 14.8 af. Water right 25-14468 was moved to the property to cover the consumptive uses but only provides 3.3 af per year. This means that 11.5 acre-feet/year is being consumed without a water right authorizing the use. HK Contractors has filed a transfer application to move an additional water right to the property to cover the overuse.

This water right will be licensed for 39.7 AFA of non-consumptive water use.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Volume</u>
INDUSTRIAL	03/01 to 11/30	1.05 CFS	39.7 AFA

Totals: 1.05 CFS

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None

☒ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ None

I. AUTHENTICATION Jonathan Davidson - Water Resource Agent

Field Examiner's Name

Jonathan Davidson

Date

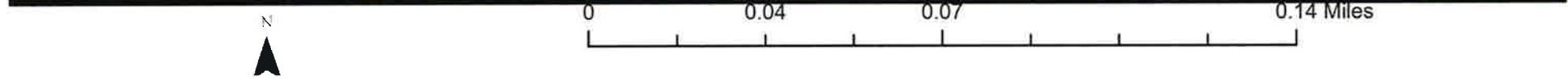
11-4-2025

Reviewer

Blake Jordan

Date

11/4/2025



Volume Calculations Total 54.9

Non-Consumptive Use: 39.7 AFA

Start of Season Pond fill: Pond volume is 1.76 AF of water

Pond Refill – 2hrs/day for every working day. Season of use is 03/01 to 11/30.

Excluding holidays and weekends, there are 189 working days between these dates.

$$472 \text{ gpm} * 60\text{mins} * 2\text{hrs} = 56,640 \text{ gpd} * 189 \text{ working days} = 10,704,960 / 325,850 = 32.85 \text{ AFA}$$

Cement Truck Washing – 300 gal/truck and 5500 trucks

$$\text{Water Use: } 300\text{gals} * 5500 \text{ trucks} = 1,650,000 \text{ gal} / 325,850 = 5.06 \text{ AFA}$$

Consumptive Use: 14.77 AFA

Cement Mixing: 202 gal avg per truck

$$\text{Water use: } 55,000 \text{ yards of cement} / 10 \text{ yards per truck} = 5500 \text{ trucks} * 202 \text{ gal.} = 1,111,000 \text{ gal} / 325,850 = 3.41 \text{ AFA}$$

Dust Abatement Trucks – 3000gal trucks

$$\text{Water use: } 3000 \text{ gal Truck} * 6 \text{ fills per day} = 18000 * 189 \text{ working days} = 3,402,000 / 325,850 = 10.44 \text{ AFA}$$

Storage Pond Measurement: (Included) Using Pond Loss Calculation Spreadsheet

$$.83 \text{ AFA loss}$$

Spill Pond: Using Pond Loss Calculation Spreadsheet (Included)

$$.09 \text{ AFA loss}$$

Consumptive use 14.77 AFA – 3.3 AFA under Water Right 25-14468 = 11.47 AFA of water use with no valid water right.

Pond Calculation
ET-IDWR----

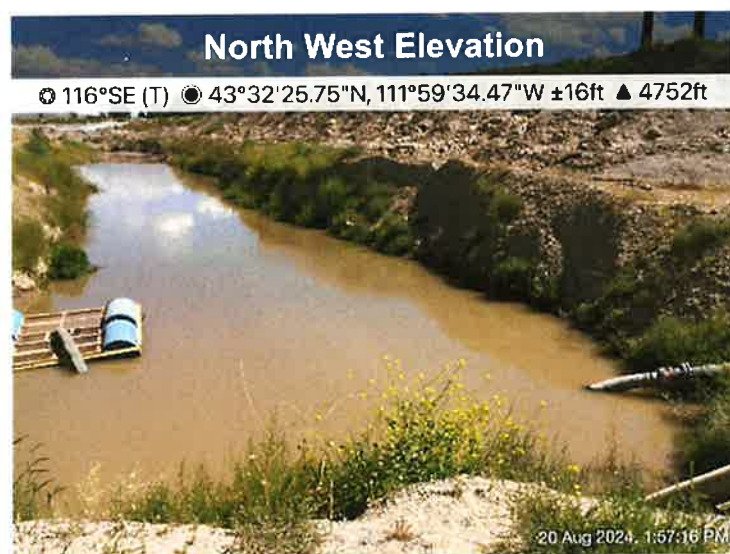
[illegible]



Well and manhole



Point where water from well spills into holding pond



Pond, far right is water in from well, middle is pumped to gravel wash, far left is float end for pump out



This is the new pump that sends water to wash station



gravel wash station



conveyor for gravel wash station



gravel separator for wash station



manhole

Calibration Report



Serial Number: DM23-1186 Test Number: DM23-1186
 Converter Serial Number: E23-05814
 Model: DM04-PCGO Calibration Date: 8/15/2023
 Report Date: 8/15/2023
 Sold To: WISH NORTHWEST
 Sales Order: 320638013
 Description: 4" DuraMag

Notes:

Customer ID: 4 in KA: 6.495
 102 min K2: 0

Any difference between the customer specified application flow rate and test flow rate is accounted for by the flow coefficient. This report indicates that on this report and also on the meter printout and on the meter's flow rate is the calibration.

Calibration Report

	Flow Rate (GPM)	PLRF Accuracy
	min	(as % of reading)
1	11.87	170.88
3	170.88	259.90
3	259.90	348.91
4	348.91	437.92
5	437.92	526.93
6	526.93	615.94
7	615.94	704.95
8	704.95	793.96
9	793.96	882.97
10	882.97	971.98

Coefficients

A: 0.00
 B: 0.00
 test ID: 4.00 in

Approved By: [Signature]
 Date: 8/15/2023

Test Fluid: Water

Standard Used: Prime

Test Data

Test ID	Weight	Average
(min)	Collected	Rate of Flow
	(lb)	(GPM)

flow meter

calibration report