**State of Idaho**
**Department of Water Resources**

# Water Right License

**Water Right No. 63-34169**

**Priority**: November 05, 2015

**Maximum Diversion Rate:** 0.41 CFS
**Maximum Diversion Volume:** 18.9 AF

It is hereby certified that:

IDAHO MATERIALS & CONSTRUCTION PO BOX 1310 NAMPA ID 83653-1310

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated November 05, 2015, and has submitted Proof of Beneficial Use on April 27, 2021. An examination confirms water is diverted from:

**Source :** GROUND WATER

| Beneficial Use | Period of Use | Rate of Diversion | Annual Volume |
|---|---|---|---|
| COMMERCIAL | 01/01 to 12/31 | 0.41 CFS | 18.9 AF |

**Location of Point(s) of Diversion**
GROUND WATER NW¼ SW¼, Sec. 17, Twp 04N, Rge 02W, B.M. CANYON County

**Place of Use:** COMMERCIAL

| Twp | Rng | Sec | NE | | | | NW | | | | SW | | | | SE | | | | Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | |
| 04N | 02W | 17 | | | | | | | | | | X | | | | | | | |

**Conditions of Approval**

1. After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to use power records to determine the amount of water diverted and shall annually report the information to the Department.
2. Commercial use is for batching concrete, truck washing, and restroom/drinking facilities for office personnel.
3. When ordered by the Director, the right holder shall provide mitigation acceptable to the Director to offset depletion of lower Snake River flows needed for migrating anadromous fish. The amount of water required for mitigation, which is to be released into the Snake River or a tributary for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this right. Any order of the Director issued in accordance with this paragraph shall be in conformance with applicable rules allowing the right holder due process as the need for mitigation and the amount of mitigation are determined.

SCANNED
OCT 25 2022

**State of Idaho**
**Department of Water Resources**

# Water Right License

**Water Right No. 63-34169**

This license is issued pursuant to the provisions of Idaho Code § 42-219. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

Signed this 25th day of October, 2022.

SCOTT STORMS
Water Rights Supervisor

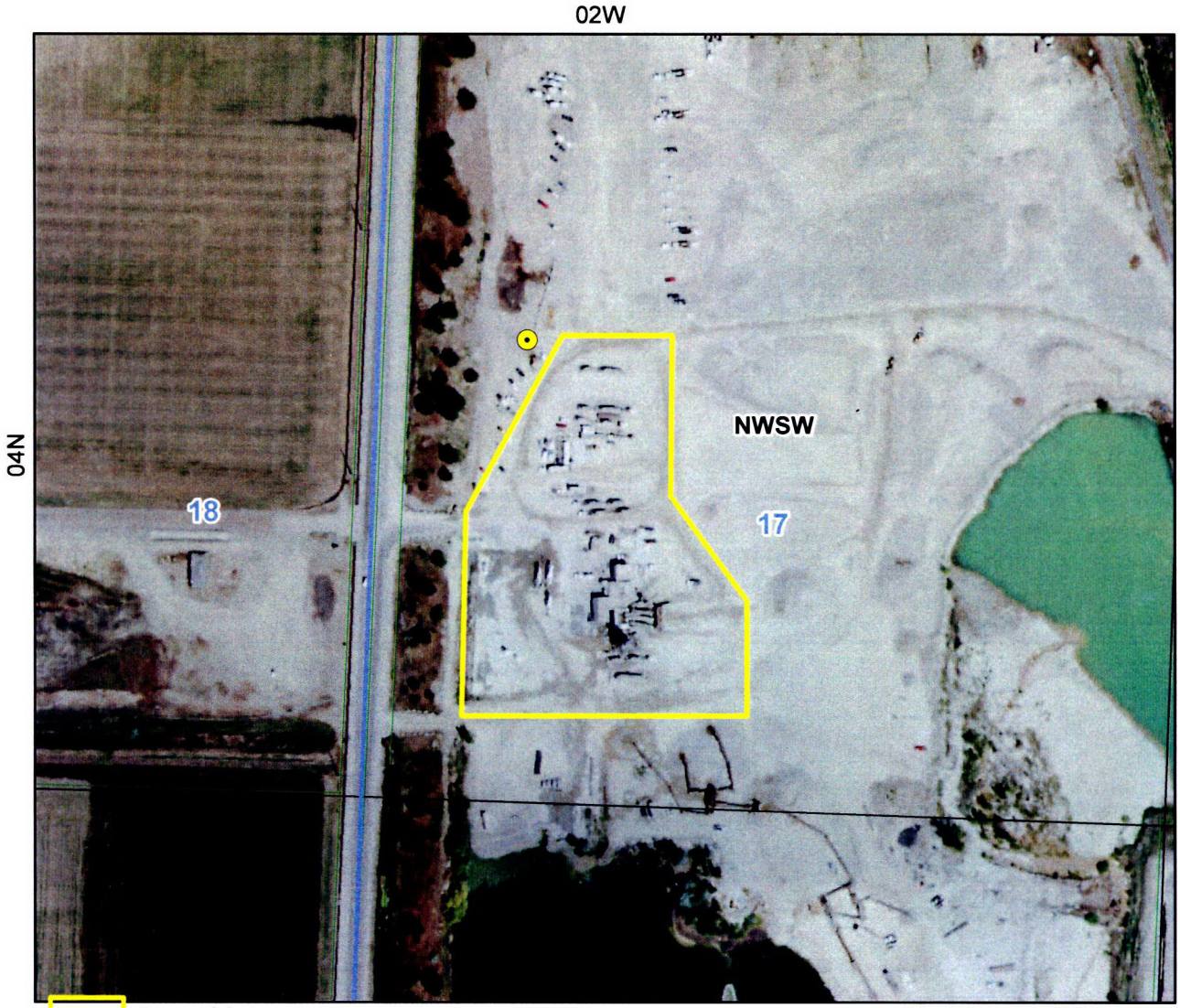
SCANNED
OCT 25 2022

State of Idaho
Department of Water Resources

# Attachment to Water Right License

63-34169

This map depicts the COMMERCIAL place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.




Place Of Use Boundary
Townships
PLS Sections
Quarter Quarters
Point of Diversion
Taxlots

0 0.035 0.07 0.14 Miles

N

SCANNED
OCT 25 2022

IDAHO DEPARTMENT OF
WATER RESOURCES

Western Region • 2735 W Airport Way • Boise, ID 83705-5082
Phone: 208-334-2190 • Fax: 208-334-2348 • Email: westerninfo@idwr.idaho.gov • Web: idwr.idaho.gov

Governor Brad Little

Director Gary Spackman

October 25, 2022

IDAHO MATERIALS & CONSTRUCTION
PO BOX 1310
NAMPA ID 83653-1310

RE: License No. 63-34169

**ISSUANCE OF LICENSE**

Dear Water Right Holder(s):

The Department of Water Resources ("Department") has issued the enclosed Water Right License confirming that a water right has been established in accordance with your permit. Please be sure to thoroughly review all the conditions of approval listed on your license. The conditions may include ongoing requirements, such as maintenance of a measuring device or implementation of mitigation, as well as information about how your water use may be administered, such as regulation by a watermaster in a water district.

The license is a PRELIMINARY ORDER issued by the Department pursuant to Rule 730 of the Department's Rules of Procedure (IDAPA 37.01.01.730). It can and will become a final order without further action by the Department unless a party petitions for reconsideration, files exceptions, or requests a hearing as described in the enclosed information sheet.

Also, please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Water right forms are available from any office of the Department or on the Department's website at idwr.idaho.gov

If you have any questions concerning the enclosed information, please contact me at (208) 605-4624.

Sincerely,

Scott Storms
Water Rights Supervisor

Enclosure(s)

SCANNED
OCT 25 2022

## CERTIFICATE OF SERVICE

I hereby certify that on October 25, 2022, I served a true and correct copy of Water Right License No. 63-34169 by U.S. Mail, postage prepaid, to the following:

IDAHO MATERIALS & CONSTRUCTION (Current Owner)
PO BOX 1310
NAMPA ID 83653-1310

HDR INC (Representative)
C/O LORI GRAVES
300 E MALLARD DR STE 350
BOISE ID 83706-6660

Lynne Evans
Administrative Assistant I



SCANNED
OCT 25 2022

# EXPLANATORY INFORMATION TO ACCOMPANY A PRELIMINARY ORDER

(To be used in connection with actions when a hearing was **not** held)

(Required by Rule of Procedure 730.02)

The accompanying order or approved document is a "**Preliminary Order**" issued by the department pursuant to section 67-5243, Idaho Code. **It can and will become a final order without further action of the Department of Water Resources ("department") unless a party petitions for reconsideration, files an exception and brief, or requests a hearing as further described below:**

## PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the department within fourteen (14) days of the service date of this order. **Note: the petition must be received by the department within this fourteen (14) day period.** The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3) Idaho Code.

## EXCEPTIONS AND BRIEFS

Within fourteen (14) days after: (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding with the Director. Otherwise, this preliminary order will become a final order of the agency.

## REQUEST FOR HEARING

Unless a right to a hearing before the Department or the Water Resource Board is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the Department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

## ORAL ARGUMENT

If the Director grants a petition to review the preliminary order, the Director shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.



SCANNED
OCT 25 2022

## CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

## FINAL ORDER

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Director may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

> Unless a different date is stated in a final order, the order is effective fourteen (14) days after its service date if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:
>
> (a) The petition for reconsideration is disposed of; or
> (b) The petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

## APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

i. A hearing was held,
ii. The final agency action was taken,
iii. The party seeking review of the order resides, or
iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.



SCANNED
OCT 25 2022

## Evans, Lynne

**From:** Evans, Lynne
**Sent:** Tuesday, October 25, 2022 9:50 AM
**To:** Graves, Lori
**Subject:** Water Right License No. 63-34169
**Attachments:** 20221025093319.pdf

Good morning Lori,

The attached water right license for water right no. 63-34169 was approved today for Idaho Materials & Construction.

Sincerely,

**Lynne Evans |** Administrative Assistant I
IDWR - Western Region
2735 W Airport Way, Boise ID 83705
(208) 334-2190 | lynne.evans@idwr.idaho.gov



SCANNED
OCT 25 2022

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
**BENEFICIAL USE FIELD REPORT**

**A. GENERAL INFORMATION**

**Permit No:** 63-34169
**Exam Date:** 09/21/2022

1. Current Owner:
   IDAHO MATERIALS & CONSTRUCTION PO BOX 1310 NAMPA ID 83653-1310

2. Accompanied by: Ed Hass
   Phone No: 208-573-3099
   Address: 21250 Middleton Rd, Middleton, ID, 83605
   Relationship to permit Holder: Plant Manager

3. **SOURCE:**
GROUND WATER

**Method of Determination:** Site visit, aerial imagery, well log

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: None
2. Other water rights with the same point-of-diversion: None

**C. DIVERSION AND DELIVERY SYSTEM**

1. **LOCATION OF POINT(S) OF DIVERSION:**
GROUND WATER NW¼ SW¼, Sec. 17, Twp 04N, Rge 02W, B.M. CANYON County

Method of Determination: Pump GPS at 43° 40' 60" N, 116° 36' 44.41" W

**PLACE OF USE:** COMMERCIAL

| Twp | Rng | Sec | NE | | | | NW | | | | SW | | | | SE | | | | Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | |
| 04N | 02W | 17 | | | | | | | | | | X | | | | | | | |

Method of Determination: Field photos and aerial photography used to verify commercial use site.

3.

x Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

x Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

n/a Aerial Photo Attached (required for irrigation of 10+ acres).

x 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 |
|---|---|---|---|---|---|
| D0025476 | Hitachi | 10 | | Berkeley 6T 115 | |

SCANNED
OCT 25 2022

## D. FLOW MEASUREMENTS

1.

| Measurement Equipment | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|---|---|---|---|---|---|---|
| N/A | N/A | N/A | N/A | N/A | N/A | N/A |

2. Measurements: Buried pump system and physical characteristics of the conveyance components did not provide suitable circumstances to directly measure the diversion rate.

## E. FLOW CALCULATIONS

Y Additional Computation Sheets Attached

Measured Method: Pump specifications and performance curve information provided by the applicant were used to estimate flow. Performance curve at maximum performance with approximately 131' total head and 10 hp yields 185 gpm (0.41 cfs) capacity.

The Theoretical Horsepower Equation Worksheet and Friction Head Loss Calculator were also used to calculate an average flow rate of 0.33 cfs (see calculation sheets in file).

Depth to water = 131'

Hp = 10

Estimated frictional head loss = 0.43'

Theoretical Commercial Use = 0.41 cfs
0.33 cfs

Permitted Total Rate 0.5 cfs

License Recommendation 0.41 cfs

## F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A
2. Volume Calculations for Other Uses:

Commercial use for the production of ready-mix concrete. Applicant confirmed annual max permitted average of 250,000 yards of concrete using 24 gallons of water per yard.

$V_{D.R.}$ = [250,000 yards] x (24 gallons/yard) = 18.4 AF

Commercial use for restroom/drinking facilities. Applicant confirmed approximately 25 office and driver personnel during 40-hour work week. Using "Public Building Water Requirements – Exhibit 11, 14" guidance in the IDWR Field Examiners Handbook, the following volume was determined:

| | | | |
|---|---|---|---|
| Number of fixtures | 5 | Estimate of hours per week | 10 |
| Kind of Building | office | Gallons per week required | 3,300 |
| Gpm/fixtures | 1.1 | Gallon per year | 171,600 |
| Instantaneous demand | 5.5 gpm | Acre feet per Annum | 0.53 AF |

Total Volume Calculations for Commercial Uses: 18.9 AF

SCANNED
OCT 25 2022

**G. NARRATIVE/REMARKS/COMMENTS**

A field exam was conducted on 09/21/22 by Water Right Agent Laura McSherry and was accompanied by Mr. Ed Hass. Mr. Ed Hass is the Plant Manager at Idaho Materials and Construction in Middleton, ID. The permit was approved on April 14, 2016, and proof of beneficial use was submitted on April 27, 2021.

The point of diversion (POD) location was confirmed at a ground water well head in the NWSW QQ and is accurately described by the permit. An underground 10 hp Berkeley pump is diverting water using 4" HDHP piping to a ready-mix concrete manufacturing system and production plant. From the manufacturing system, the mixed concrete is then loaded into concrete mixing trucks via a silo within the place of use (POU). Water right overlap did not discover any other water rights associated with the ground water POD. No amendment required to correct the legal description.

The permit authorizes 0.50 cfs for commercial use within NWSW Sec 17, T04N, R02W. The concrete manufacturing system and plant include ready-mix concrete production, truck washing, and staff restroom/drinking facilities that are located within the POU. The 5 fixtures for staff facilities include 2 toilets, 2 handwashing sinks, and one breakroom sink. ArcMap tools and aerial imagery, supported by photos taken during the field exam, were used to verify the POU area. No amendment required to correct the legal description of the POU.

The POD and pump are buried resulting in approximately 131 ft of head between where the water is diverted and where it is used on land. Pump and motor information was provided by the applicant. Using the pump performance curve for the 10 hp Berkeley pump with 131 ft of total head, a theoretical flow rate of 0.41 cfs was calculated which is less than the permitted rate. The Theoretical Horsepower Equation Worksheet and Friction Head Loss Calculator were also used to determine an average flow rate of 0.33 cfs applying estimated discharge pressures ranging from 20-30 psi. The recommended licensed flow rate for commercial use is 0.41 cfs which is the max system capacity. The maximum diversion volume for commercial use is 18.9 AF.

Condition 103 replaced condition 121 per department standards. Conditions 26A, 106, and 046 were removed. 01M was carried forward to license.

Have conditions of permit approval been met? __x__ Yes _____ No

**H. RECOMMENDATIONS**

**1. Recommended Amounts**

| Beneficial Use | Period of Use | Rate of Diversion | Annual Volume |
|---|---|---|---|
| COMMERCIAL | 01/01 to 12/31 | 0.41 CFS | 18.9 AF |
| | **Totals:** | 0.41 CFS | 18.9 AF |

**2. Recommended Amendments**

____ Change P.D. as reflected above ____ Add P.D. as reflected above __x__ None

SCANNED
OCT 25 2022

I. **AUTHENTICATION** Laura McSherry – Senior Water Resource Agent

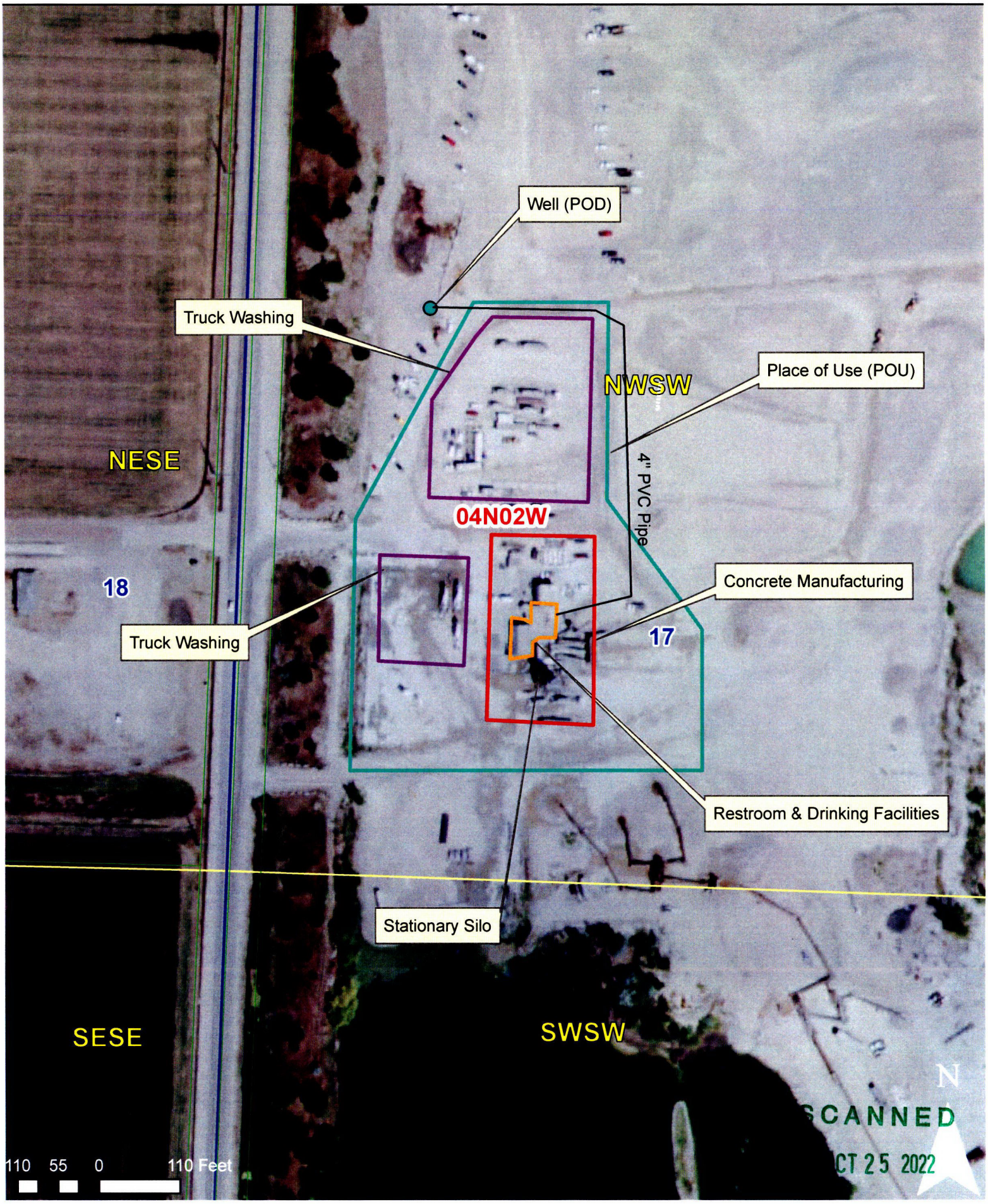
Field Examiner's Name _____ Date 10.20.2022

Reviewer _____ Date 10/25/2022

SCANNED
OCT 25 2022

# DELIVERY SYSTEM DIAGRAM

Water Right No. 63-34169




SCANNED
OCT 25 2022

SCANNED
OCT 25 2022

# THEORETICAL HORSEPOWER EQUATION WORKSHEET

Water Right No.: 63-34169
Examiner: Laura M
Date of Field Exam: 9/21/2022

Commercial Use

| | OPTION 1 | OPTION 2 | OPTION 3 | |
|---|---|---|---|---|
| P/D No.: | | | | |
| PUMP HORSEPOWER | 10 | 10 | 10 | |
| BOOSTER HORSEPOWER | 0 | 0 | 0 | |
| PUMPING LEVEL | 131 | 131 | 131 | |
| DISCHARGE PRESSURE | 20 | 25 | 30 | |
| FRICTION | 0.42 | 0.43 | 0.44 | |
| | | | | AVE |
| RATE OF FLOW (cfs) | 0.35 | 0.33 | 0.31 | 0.33 |
| (gpm) | 155.7 | 146.1 | 137.7 | |

The above calculates the formula = $Q = \frac{8.8 * (\text{Efficiency}) * hp}{\text{depth to water} + 2.31*(\text{psi})+\text{friction}}$

Assumptions: %70 efficiency

Examiners Notes:

SCANNED
OCT 25 2022

63-34169

## Friction Head Loss Calculator
## Hazen-Williams Method

Read Me

$$h_f = \frac{10.44(L)(Q)^{1.85}}{(C)^{1.85}d^{4.8655}}$$

**Required Input**

| | | |
|---|---|---|
| L = | 131 | feet (length of pipe) |
| Q = | 185 | gpm (flow rate) |
| d = | 6 | inches (inside diameter of pipe) |

**Select Pipe Material Type**

plastic (PVC or ABS)

C = 130 unitless (Hazen-Williams Roughness Coeff.)

**Output**

| | | |
|---|---|---|
| $h_f$ = | **0.43** | feet (frictional head loss) |
| | or | |
| $h_f$ = | **0.19** | psi (frictional head loss) |

**Table 1**

**Hazen Williams Roughness Coefficients***

| Index No. | Material Type | Design Value |
|---|---|---|
| 1 | steel, welded and seamless | 100 |
| 2 | concrete | 100 |
| 3 | cement-asbestos | 140 |
| 4 | vitrified clay | 110 |
| 5 | brick sewer | 100 |
| 6 | cast iron, plain | 100 |
| 7 | cast iron, tar (asphalt) coating | 100 |
| 8 | copper or brass | 130 |
| 9 | wood stave | 110 |
| 10 | lead, tin, glass | 130 |
| 11 | plastic (PVC or ABS) | 130 |
| 12 | fiberglass | 150 |

**Values taken from Lindeburg (1999) CE Reference Manual, Ap. 17.A*

# * * * INVOICE * * *

Hiddleston & Son, Inc.
1530 W 39th N

Mountain Home, Id 83647-0000

INVOICE NO.:000015320000
CUSTOMER NO.:00608
DATE: 09/24/02

SOLD TO:
Idaho Concrete Company
P.O. Box 670
Caldwell, ID 83606

SHIP TO:
East of Middleton Rd
1/4 mile North of Lincoln
Caldwell, ID

| SHIP DATE | SHIPPED VIA | F.O.B. | TERMS | SALES-PERSON | ORDER DATE | P.O. NUMBER |
|---|---|---|---|---|---|---|
| 09/13/02 | | | NET 30 | JS | 09/13/02 | |

| QUANTITY | DESCRIPTION | UNIT PRICE | AMOUNT |
|---|---|---|---|
| 18 | Drilling-12" | 50.00 | 900.00 |
| 114 | Drilling-8" | 16.00 | 1,824.00 |
| 1 | Drive Shoe-8" DR | 250.00 | 250.00 |
| 1 | Surface Seal-8" | 200.00 | 200.00 |
| 111 | Casing-8" x .322 | 12.55 | 1,393.05 |
| 2 | Screen-6" x 10' x .016 | 1,250.00 | 2,500.00 |
| 1 | Permit-Community or Irrigation | 250.00 | 250.00 |

| | | | |
|---|---|---|---|
| | SUB-TOTAL | 7,317.05 | SHIPPING CHARGES 0.00 |
| * THANK YOU * | SALES TAX | 0.00 | TOTAL 7,317.05 |

SCANNED
OCT 25 2022

**1. DRILLING PERMIT NO.** 872846-782067
Other IDWR No. D0025476 [redacted]t#63-12534

**2. OWNER:**
Name Idaho Concrete Company
Address P.O. Box 670
City Caldwell State ID Zip 83606

**3. LOCATION OF WELL by legal description:**
Sketch map location must agree with written location

N
W [X] E
S

Twp. 4 North X or South ☐
Rge. 2 East ☐ or West X
Sec. 17 1/4 (10 acres) NW 1/4 (40 acres) SW 1/4 (160 acres)
Gov't lot ____ County Canyon
Lat: : : Long: : :
Address of Well Site East of Middleton Rd. ¼ mile North Of Lincoln City Caldwell
(Give at least name of road + Distance to Road or Landmark)
Lt. ____ Blk. ____ Sub. Name ____

**4. USE:**
X Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other ____

**5. TYPE OF WORK** check all that apply (Replacement etc.)
X New Well ☐ Modify ☐ Abandonment ☐ Other ____

**6. DRILL METHOD**
X Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other ____

**7. SEALING PROCEDURES**

| SEAL/FILTER PACK Material | From | To | AMOUNT Sacks or Pounds | METHOD |
|---|---|---|---|---|
| Bentonite | 0 | 18 | 900 Lbs | overbore |
| | | | | |
| | | | | |

Was drive shoe used? X Y ☐ N Shoe Depth(s) ____
Was drive shoe seal tested? ☐ Y X N How? ____

**8. CASING/LINER:**

| Diameter | From | To | Gauge | Material | Casing | Liner | Welded | Threaded |
|---|---|---|---|---|---|---|---|---|
| 8.625 | 2 | 111 | 250 | Steel | X | ☐ | X | ☐ |
| | | | | | ☐ | ☐ | ☐ | ☐ |
| | | | | | ☐ | ☐ | ☐ | ☐ |

Length of Headpipe ____ Length of Tailpipe ____

**9. PERFORATIONS/SCREENS**
☐ Perforations Method ____
X Screens Screen Type Johnsons

| From | To | Slot Size | Number | Diameter | Material | Casing | Liner |
|---|---|---|---|---|---|---|---|
| 111 | 131 | .016 | | 6.625 | SS | ☐ | X |
| | | | | | | ☐ | ☐ |
| | | | | | | ☐ | ☐ |

**10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:**
1 ft. below ground Artesian Pressure ___ lb
Depth flow encountered ___ ft. Describe access port or control devices: ____

**11. WELL TESTS:**
☐ Pump [redacted] B[redacted] X Air ☐ Flowing Artesian

| Yield gal/min. | Drawdown | Pumping Level | Time |
|---|---|---|---|
| 100 | | | 1 hr. |
| | | | |
| | | | |

Water Temp. ____ Bottom hole temp. ____
Water Quality test or comments: ____
Depth first Water Encountered 18'

**12. LITHOLOGIC LOG:** (Describe repair or abandonment)

| Bore Dia. | From | To | Remarks:Lithology, Water Quality & Temp. | Water Y | Water N |
|---|---|---|---|---|---|
| 12 | 0 | 18 | Sand & gravels | | X |
| 8 | 18 | 30 | Gravels | X | |
| 8 | 30 | 54 | Tan clay | | X |
| 8 | 54 | 90 | Tan sand | X | |
| 8 | 90 | 110 | Tan sand & tan clay seams | | X |
| 8 | 110 | 131 | Tan sand | X | |

RECEIVED
OCT 18 2002
WATER RESOURCES
WESTERN REGION

Completed Depth: 131' (Measurable)
Date: Started 09/13/02 Completed 09/16/02

**13. DRILLER'S CERTIFICATION**
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name Hiddleston & Son, Inc. - Boise Firm No. 35
Firm Official [signature] Date 10-15-02
Supervisor or Operator [signature] Date 10-10-02
(Sign once if Firm Official & Operator)

SCANNED
OCT 25 2022

# * * * INVOICE * * *

Hiddleston & Son, Inc.
1530 W 39th N

Mountain Home, Id 83647-0000

INVOICE NO.:000023500000
CUSTOMER NO.:00608
DATE: 06/30/03

SOLD TO:
Idaho Concrete Company
P.O. Box 1310
Nampa, ID 83653

SHIP TO:
Middleton Plant

Middleton, ID

| SHIP DATE | SHIPPED VIA | F.O.B. | TERMS | SALES-PERSON | ORDER DATE | P.O. NUMBER |
|---|---|---|---|---|---|---|
| 06/19/03 | | | NET 30 | RM | 06/19/03 | |

| | QUANTITY | DESCRIPTION | UNIT PRICE | AMOUNT |
|---|---|---|---|---|
| | 560 | Pipe-3" 200PSI PVC | 1.48 | 828.80 |
| | 1 | Adapter-8"X3" Weld On Pitless | 860.20 | 860.20 |
| | 1 | Tee-3" PVC SXSXS | 12.69 | 12.69 |
| | 1 | Elbow-3" 90 degree PVC | 8.75 | 8.75 |
| | 1 | Cap-3" PVC Slip | 4.27 | 4.27 |
| | 1 | Clear Cement-Quart | 7.32 | 7.32 |
| | 1 | Cap-8" Water Tight | 73.50 | 73.50 |
| | 1 | Adapter-3" PVC Female | 5.50 | 5.50 |
| | 1 | Nipple-3" x 4" Galv | 7.20 | 7.20 |
| | 1 | Valve-Check 3" | 185.00 | 185.00 |
| | 1 | Union-3" Galv | 31.89 | 31.89 |
| X | 1 | Motor-10HP 460V 3PH Hitachi | 1,884.00 | 1,884.00 |
| X | 1 | Pump End-10HP 115GPM Berk. Turbine | 1,927.00 | 1,927.00 |
| | 84 | Pipe-3" Galv | 7.45 | 625.80 |
| | 90 | Subwire-8/4 Flat | 1.85 | 166.50 |
| | 6 | Labor-Pump | 75.00 | 450.00 |

| | | | |
|---|---|---|---|
| | SUB-TOTAL 7,078.42 | SHIPPING CHARGES | 0.00 |
| * THANK YOU * | SALES TAX 0.00 | TOTAL | 7,078.42 |

SCANNED
OCT 25 2022

# * * * INVOICE * * *

Hiddleston & Son, Inc.
1530 W 39th N

Mountain Home, Id 83647-0000

INVOICE NO.:000025780000
CUSTOMER NO.:00608
DATE: 08/27/03

SOLD TO:
Idaho Concrete Company
P.O. Box 1310
Nampa, ID 83653

| SHIP DATE | SHIPPED VIA | F.O.B. | TERMS | SALES-PERSON | ORDER DATE | P.O. NUMBER |
|---|---|---|---|---|---|---|
| 08/01/03 | | | NET 30 | RM | 08/01/03 | |

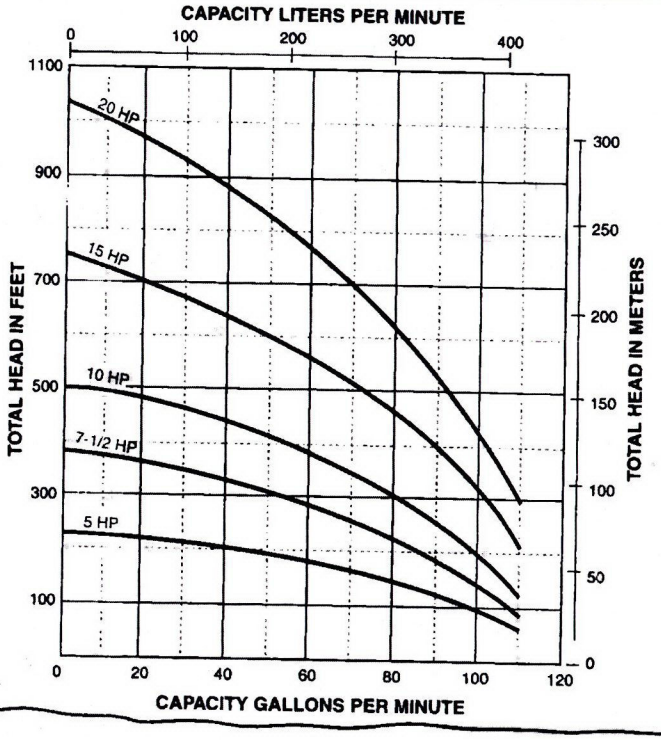
| QUANTITY | DESCRIPTION | UNIT PRICE | AMOUNT |
|---|---|---|---|
| 1 | Variable Frequency-10HP Siemens Dr | 2,391.00 | 2,391.00 |
| 1 | Line Reactor-10HP 3PH | 570.00 | 570.00 |
| 1 | Line Reactor Box | 90.00 | 90.00 |
| 1 | Transducer-0-120 1/2" CU301 | 220.004 | 220.00 |
| 6 | Connector-#4 | 18.10 | 108.60 |
| 1 | Valve-1 1/2" Non-Adj Relief | 201.87 | 201.87 |
| 1 | Bushing-2" x 1 1/2" Galv | 4.00 | 4.00 |
| 1 | Misc Fitting | 150.00 | 150.00 |
| 1 | Permit-Electrical | 40.00 | 40.00 |
| 1 | Permit-Plumbing | 38.00 | 38.00 |
| 3 | Labor-Pump | 75.00 | 225.00 |

| | | | |
|---|---|---|---|
| | SUB-TOTAL | 4,038.47 | SHIPPING CHARGES 0.00 |
| * THANK YOU * | SALES TAX | 0.00 | TOTAL 4,038.47 |

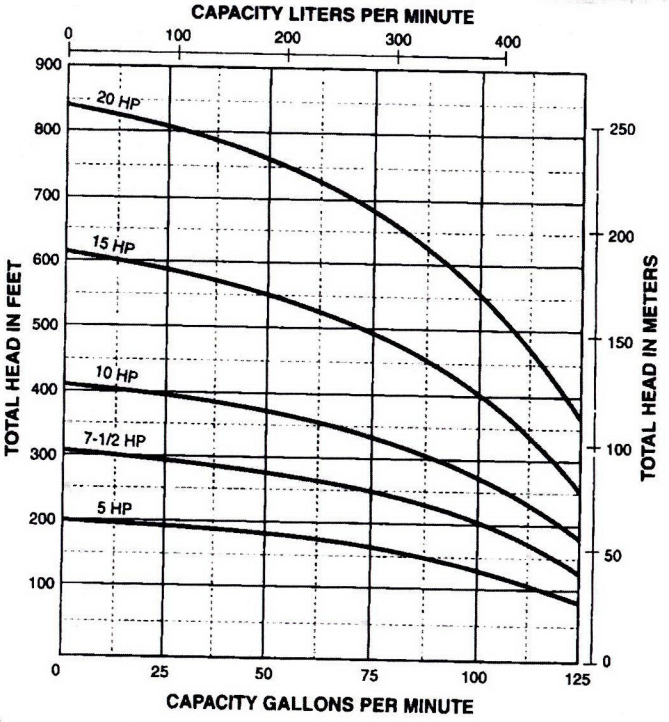
SCANNED
OCT 25 2022

# 6" Berkeley® submersible pumps

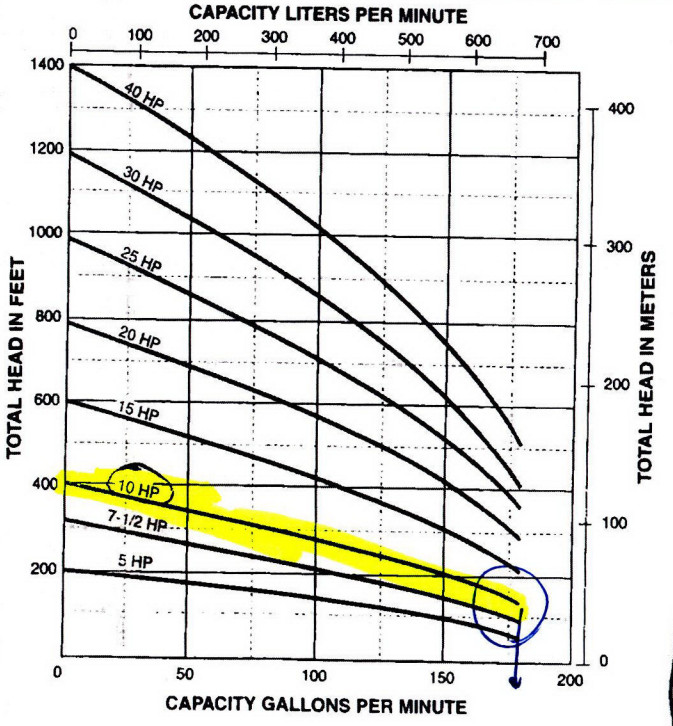
## PUMP PERFORMANCE – 6T-75



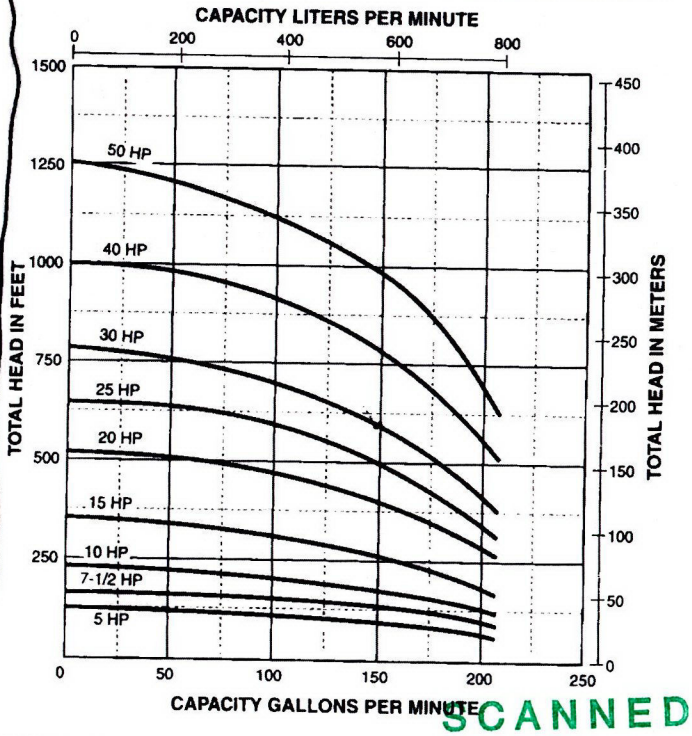

## PUMP PERFORMANCE – 6T-90




## PUMP PERFORMANCE – 6T-115




## PUMP PERFORMANCE – 6T-155




For more detail and full page performance charts, refer to the BEC or Full Line Berkeley Catalog.

SCANNED
OCT 25 2022

INFO

**HIDDLESTON PUMP COMPANY**

S/N

Name Idaho Concrete Date Installed 6/30/03

Address middleton

Warranty

Pump Model 6T 115

Motor-A.I.M.(hl) HP 10 RPM 345 Phase 3 Volts 460 Date Code

Static Setting 84

Depth Pipe 3"

Well yes Wire No. 8/4

SCANNED

OCT 25 2022

Exhibit 11

## EXAMPLE OF ESTIMATING "PUBLIC BUILDING" WATER REQUIREMENTS

---

### 1. DETERMINE INSTANTANEOUS DEMAND IN BUILDING

| | | | |
|---|---|---|---|
| a. Number of fixtures: | | 12 | |
| Kind of building: | | Church | |
| b. Determine gpm/fixtures: | (See Exhibit 13) | 1 | |
| c. Instantaneous demand: | (a X b) | 12.0 | gpm |
| Cubic feet per second: | (c / 448.8) | 0.03 | cfs |

### 2. DETERMINE VOLUME

| | | | |
|---|---|---|---|
| d. Estimate of hours per week | | 10 | |
| e. Gallons per week required: | (c x d) | 7200 | gallons |
| f. Gallons per Year: | (e X 52) | 374400 | gallons |
| Acre feet per Annum: | (f / 325982) | 1.1 | afa |

### 3. ESTIMATE PUMP CAPACITY

| | | |
|---|---|---|
| Pressure at well head: | 40 | psi |
| Depth to water: | 250 | feet |
| Pump and Motor efficiency: | 0.7 | percent |
| Motor Horsepower: | 2 | hp |
| TDH: | 342 | feet |
| Discharge: | 16 | gpm |
| | 0.04 | cfs |

### 4. COMPARE ESTIMATED CAPACITY TO WATER REQUIREMENT

Is pump capacity greater than building water requirement? Yes

SCANNED
OCT 25 2022

Exhibit 14

# PUBLIC BUILDING WATER REQUIREMENTS

| Kind of Building | | Number of Fixtures 0–50 | 51–100 | 101–200 | 201–400 | See Notes |
|---|---|---|---|---|---|---|
| Hotels/Clubs | Gpm/Fixture | 0.65 | 0.55 | 0.45 | 0.35 | A B |
| | Min. Gpm | 25 | 35 | 60 | 100 | |
| | Max. Gpm | 33 | 55 | 90 | 140 | |
| Hospitals | Gpm/Fixture | 1 | 0.8 | 0.6 | 0.5 | A B |
| | Min. Gpm | 25 | 55 | 85 | 125 | |
| | Max. Gpm | 50 | 80 | 120 | 200 | |
| Apartments/Hotels | Gpm/Fixture | 0.5 | 0.35 | 0.3 | 0.28 | A |
| | Min. Gpm | 16 | 30 | 40 | 65 | |
| | Max. Gpm | 25 | 35 | 60 | 115 | |
| Mercantile | Gpm/Fixture | 1.3 | 0.75 | 0.7 | 0.6 | A C |
| | Min. Gpm | 40 | 70 | 80 | 150 | |
| | Max. Gpm | 65 | 75 | 140 | 240 | |
| Office | Gpm/Fixture | 1.1 | 0.7 | 0.6 | 0.5 | A C |
| | Min. Gpm | 35 | 60 | 80 | 140 | |
| | Max. Gpm | 55 | 70 | 120 | 200 | |
| Schools/Churches | Gpm/Fixture | 1 | 0.6 | 0.5 | 0.4 | A |
| | Min. Gpm | 20 | 50 | 70 | 110 | |
| | Max. Gpm | 50 | 60 | 100 | 160 | |

A. Table are based on equal number of men and women. If major number of occupants are women increase capacity 15%.

B. Where laundry is operated in connection with building increase capacity 15%.

C. These estimates do not include water for special process work. The extra amount should be determined and added to the total capacity.

*Source, Hydraulic Handbook, Colt Industries, 1979, p. 90.*

SCANNED
OCT 25 2022



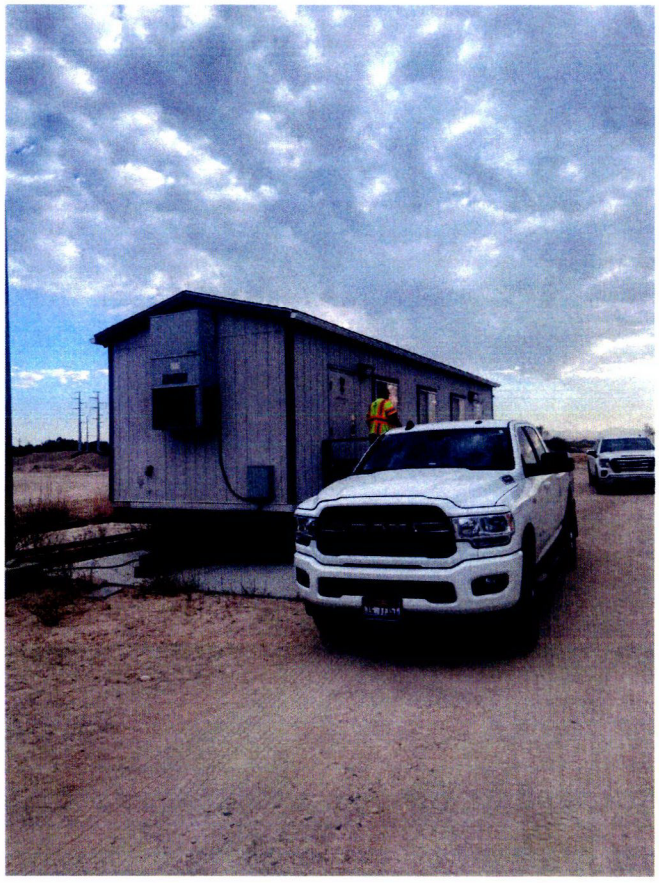
Fig. 1 – Entrance to Idaho Materials and Construction concrete manufacturing site for commercial use. View looking E and NE.



SCANNED
OCT 25 2022




Fig. 2 – Management office and site map located east of the main entrance. View looking E.



SCANNED
OCT 25 2022

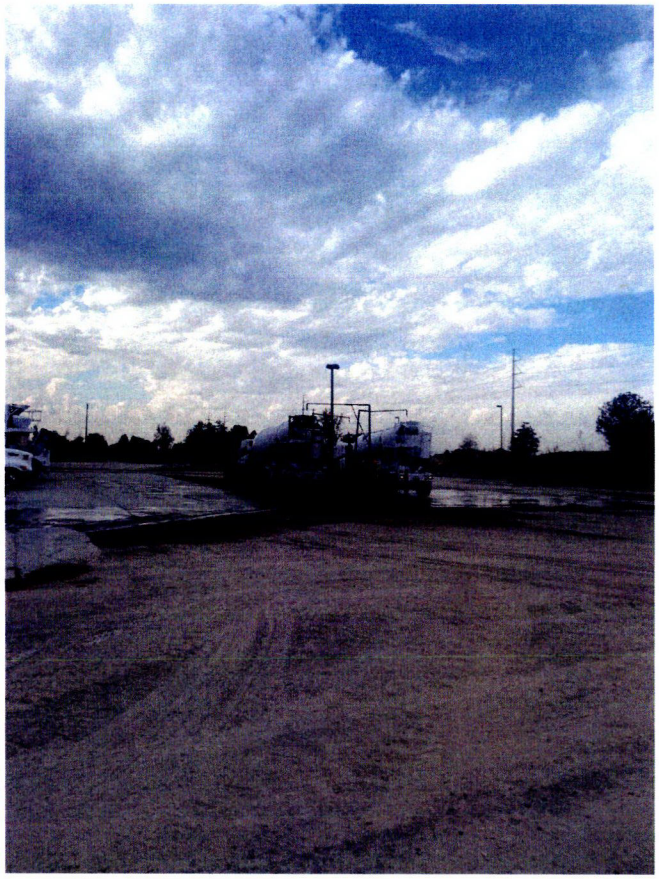




Fig. 3 – Active truck washing station located on the southwest side of the place of use.

SCANNED
OCT 25 2022



Fig. 4 – Location of well, motor, and pump. View looking SE.

GPS'd at:

43° 40' 60" N

116° 36' 44.41" W

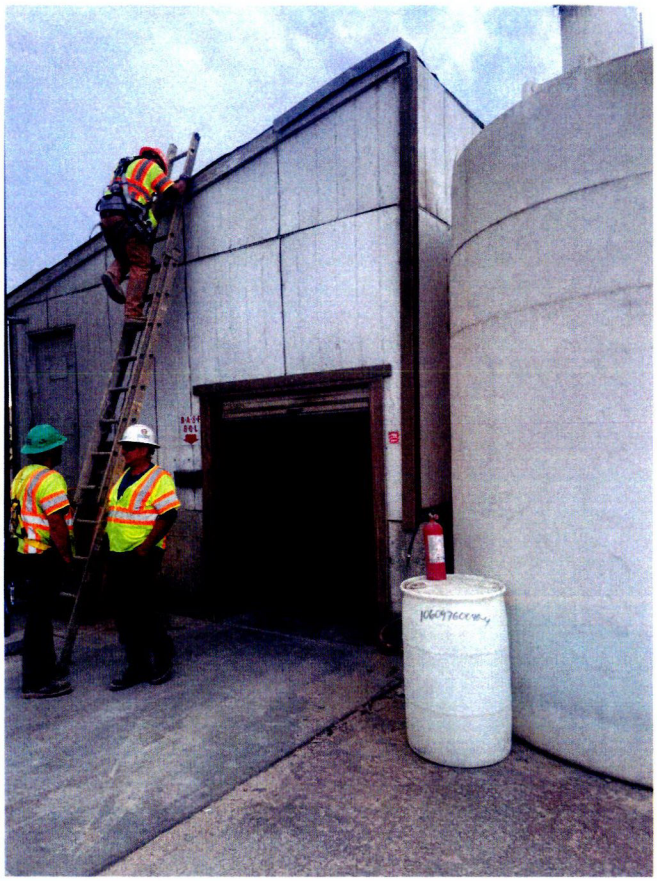


SCANNED

OCT 25 2022




Fig. 5 – Concrete manufacturing plant located south of the management office.



SCANNED
OCT 25 2022

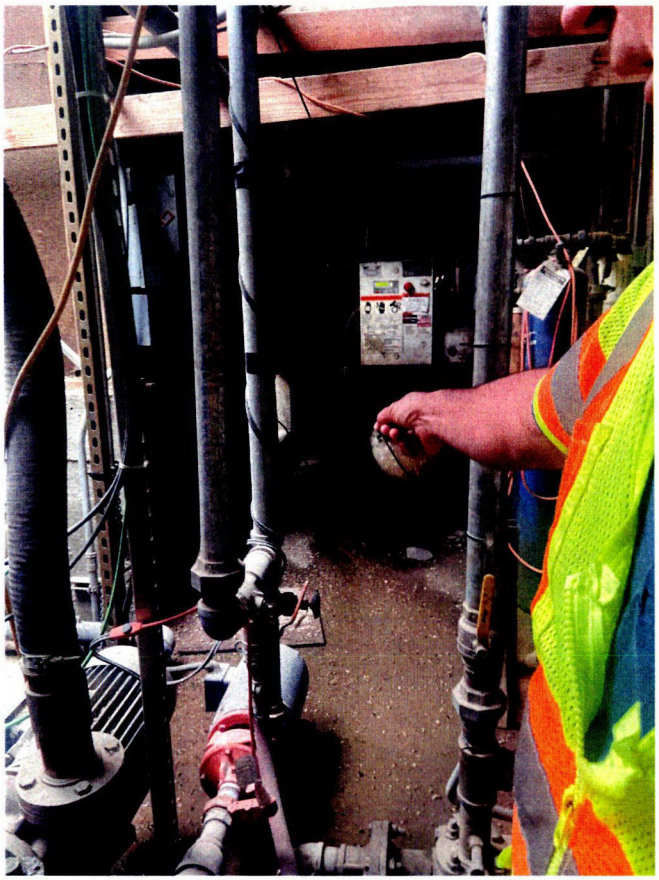




Fig. 6 – Concrete manufacturing operation with complex conveyance system and mixing tanks.

SCANNED
OCT 25 2022

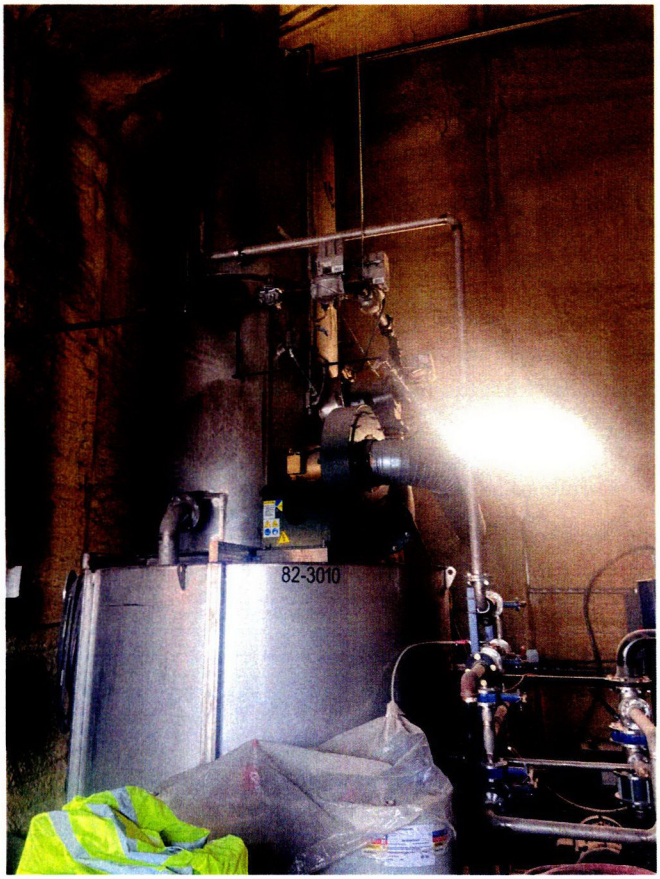



Fig. 7 – Concrete mixing operation. Thermal water tank.

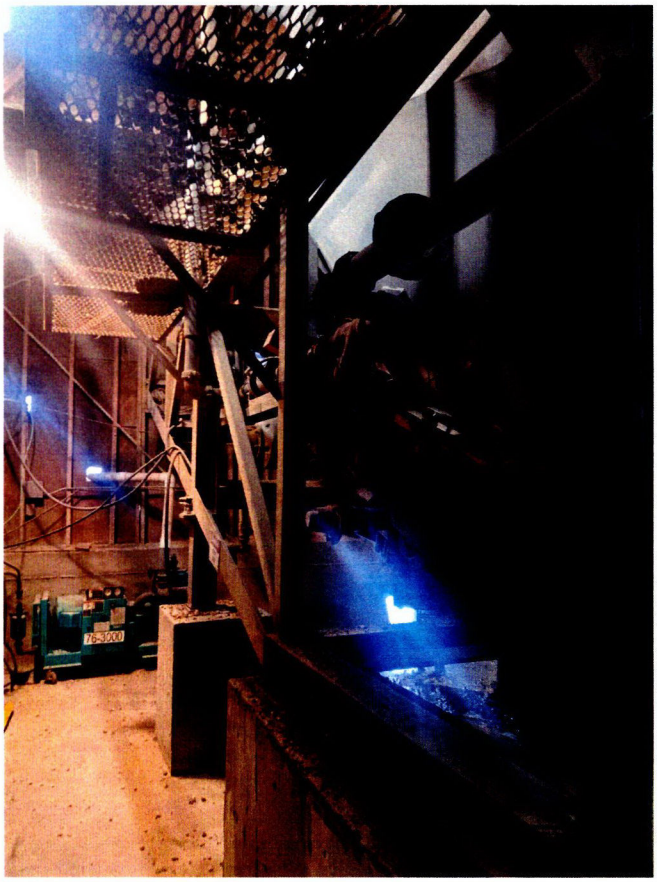


Fig. 8 – Concrete mixing operation. Conveyance of mixed concrete to the distribution silo.

SCANNED
OCT 25 2022

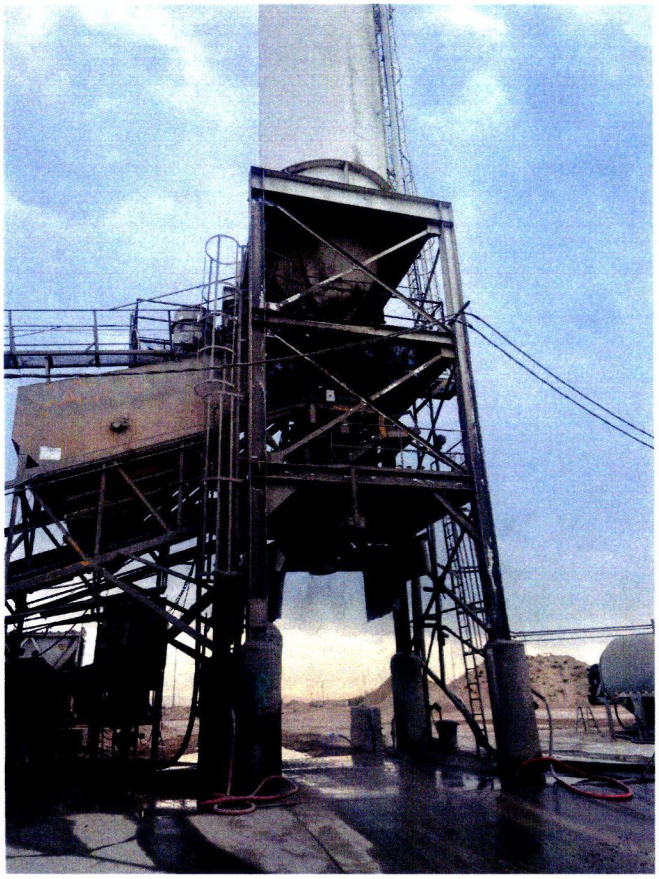


Fig. 9 – Concrete mixing operation. Stationary silo where mixed concrete is batched into truck mixers. View looking E.

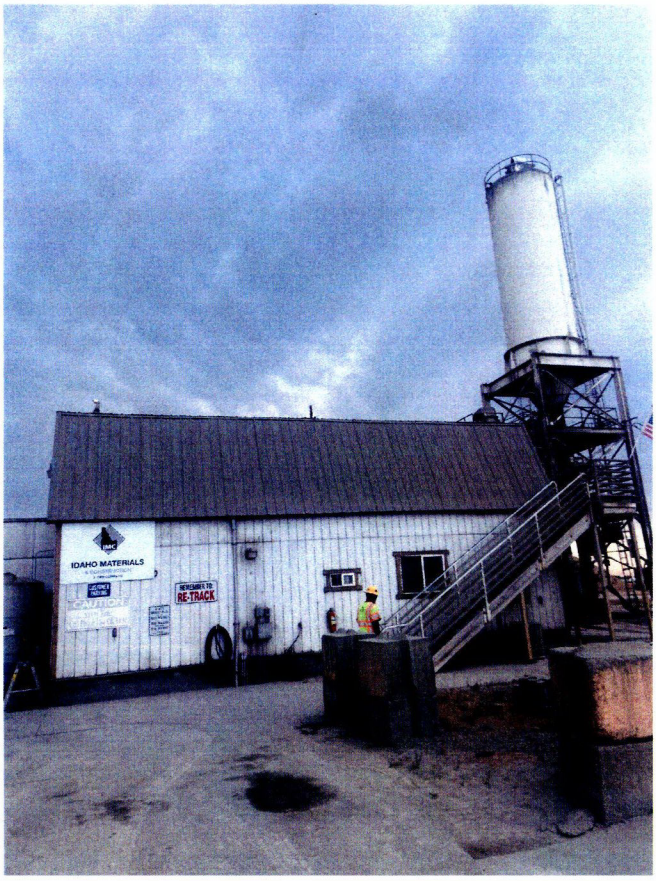



Fig. 10 – Concrete mixing operation. Stationary silo. View looking W.

SCANNED
OCT 25 2022

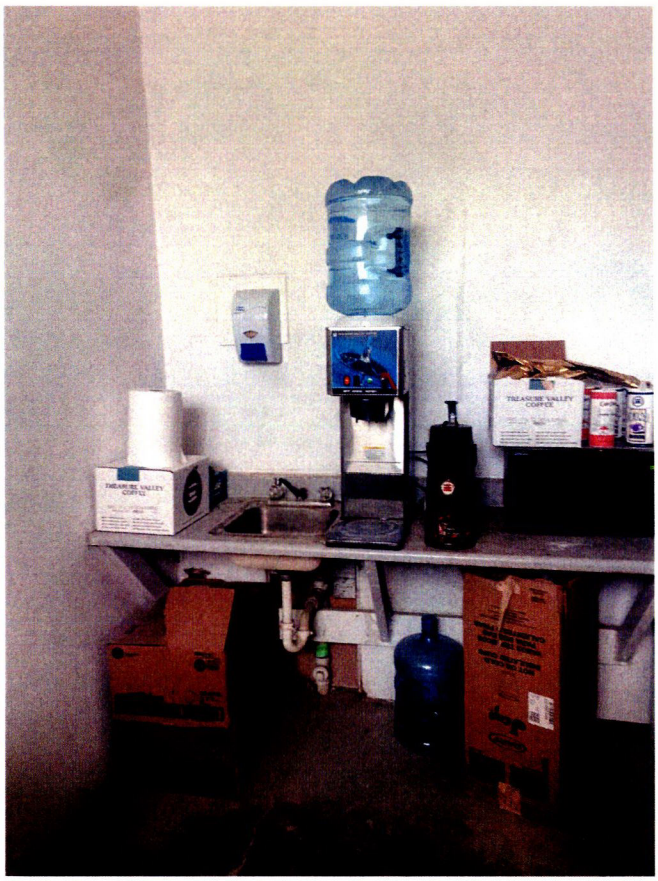


Fig. 11 – Breakroom with handwashing sink for staff personnel located in the concrete manufacturing plant.

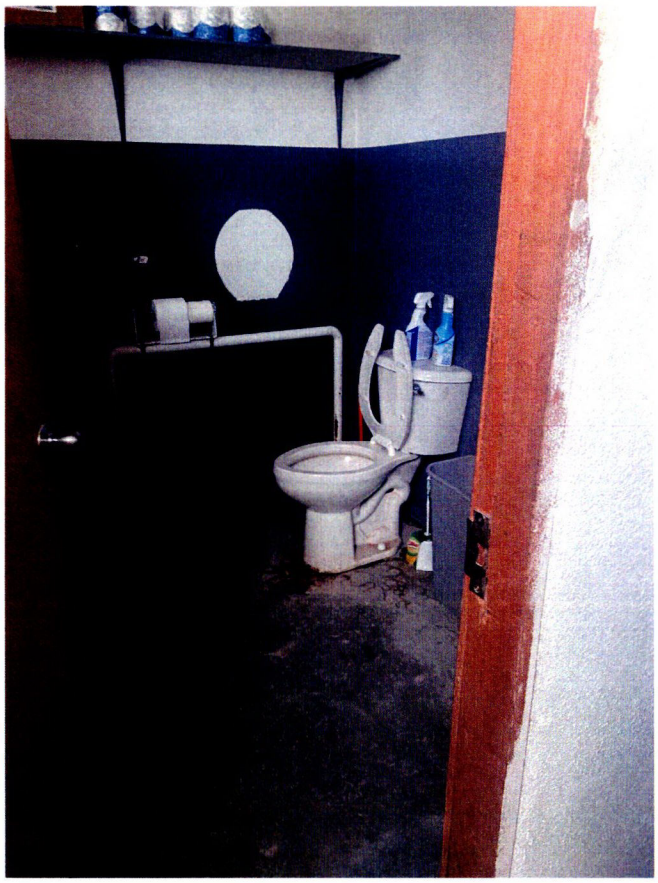


Fig. 12 – Restroom facility with toilet and handwashing sink (bathroom #1) for staff personnel located in the concrete manufacturing plant.

SCANNED
OCT 25 2022



Fig. 13 – Restroom facility with toilet and handwashing sink (bathroom #2) for staff personnel located in the concrete manufacturing plant.

SCANNED
OCT 25 2022