

MONEY SLIP

DATE: <u>4.20.2022</u>	RECEIPT #: <u>137962</u>
------------------------	--------------------------

RECEIVED FROM: Joy C. McEwen

APPLICATION	
PERMIT	
TRANSFER	

CASH CHECK # 1672 OTHER (IDENTIFY) _____

TOTAL REC'D	\$ <u>230.00</u>
-------------	------------------

1083 TREASURY	4170 MISC CASH ACCT.
---------------	----------------------

0407 COPIES _____	\$ _____
_____ OTHER: (IDENTIFY) _____	\$ _____

0243 Instream Lease _____ 0244 Muni Water Mgmt. Plan _____ 0245 Cons. Water _____

1083 TREASURY	4270 WRD OPERATING ACCT.
---------------	--------------------------

MISCELLANEOUS

0407 COPY & TAPE FEES _____	\$ _____
0410 RESEARCH FEES _____	\$ _____
0408 MISC REVENUE (IDENTIFY) _____	\$ _____
TC162 DEPOSIT LIAB. (IDENTIFY) _____	\$ _____
0240 EXTENSION OF TIME _____	\$ _____

WATER RIGHTS

	EXAM FEE		RECORD FEE
0201 SURFACE WATER	\$ _____	0202	\$ _____
0203 GROUND WATER	\$ _____	0204	\$ _____
0205 TRANSFER	\$ _____		

WELL CONSTRUCTION

	EXAM FEE		RECORD FEE
0218 WELL DRILL CONSTRUCTOR	\$ _____	0219	\$ _____
LANDOWNER'S PERMIT		0220	\$ _____
_____ OTHER (IDENTIFY) _____			

0607 TREASURY	0467 HYDROELECTRIC
---------------	--------------------

0233 POWER LICENSE FEE (FW/WRD)		LIC NUMBER	
0231 HYDRO LICENSE FEE (FW/WRD)			\$ _____
_____ HYDRO APPLICATION			\$ _____

SPECIAL INSTRUCTIONS:

RETURN TO APPLICANT -- LETTER ATTACHED

**CLAIM OF
BENEFICIAL USE
for Reservoir Permits by
CWRE's (not self-certified)**



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.oregon.gov/OWRD

RECEIVED
APR 20 2022
OWRD

**A fee of \$230 must accompany this form for permits
with priority dates of July 9, 1987, or later.**
Claims received without the correct fee of \$200 will be returned.

A separate form shall be completed for each permit.

In cases where a permit has been amended through the permit amendment process, a separate claim for the permit amendment is not required. Incorporate the permit amendment into the claim for the permit.

This form is subject to revision. **Begin each new claim** by checking for a new version of this form at:
<https://www.oregon.gov/OWRD/Forms/Pages/default.aspx>

The completion of this form is required by OAR 690-014-0100(1) and 690-014-0110(4).

Please type or print in dark ink. If this form is found to contain errors or omissions, it may be returned to you. **Every item must have a response.** If any requested information does not apply to the claim, insert "NA." **Do not delete or alter any section of this form unless directed by the form.** The Department may require the submittal of additional information from any water user or authorized agent.

"Section 8" of this form is intended to aid in the completion of this form and should not be submitted.

If you have questions regarding the completion of this form, please call 503-979-9103.

The Department has a program that allows it to enter into a voluntary agreement with an applicant for expedited services. Under such an agreement, the applicant pays the cost to hire additional staff that would not otherwise be available. This program means a certificate may be issued in about a month. For more information on this program see:

<https://www.oregon.gov/OWRD/programs/WaterRights/RA/Pages/default.aspx>

**SECTION 1
GENERAL INFORMATION**

1. File Information

APPLICATION # R-88215	PERMIT # (IF APPLICABLE) R-15209	PERMIT AMENDMENT # (IF APPLICABLE)
---------------------------------	--	------------------------------------

2. Property Owner (current owner information)

APPLICANT/BUSINESS NAME Joy McEwen		PHONE NO. 541-415-5472	ADDITIONAL CONTACT NO. 541-415-5171
ADDRESS PO Box 291			
CITY Cave Junction	STATE OR	ZIP 97523	E-MAIL joy@digginlivin.com

If the current property owner is not the permit holder of record, it is recommended that an assignment be filed with the Department. ***Each permit holder of record must sign this form.***

3. Permit holder of record (this may, or may not, be the current property owner)

PERMIT HOLDER OF RECORD Joy McEwen		
ADDRESS PO Box 291		
CITY Cave Junction	STATE OR	ZIP 97523

RECEIVED
APR 30 2022

ADDITIONAL PERMIT HOLDER OF RECORD NA		
ADDRESS		
CITY	STATE	ZIP

OWRD

4. Date of Site Inspection:

February 9, 2022

5. Person(s) interviewed and description of their association with the project:

NAME	DATE	ASSOCIATION WITH THE PROJECT
Joy McEwen	2/9/2022	Owner and Permit Holder

6. County

Josephine

7. If any property described in the place of use of the permit final order is excluded from this report, identify the owner of record for that property (ORS 537.230(5)):

OWNER OF RECORD NA		
ADDRESS		
CITY	STATE	ZIP

Add additional tables for owners of record as needed

**SECTION 2
SIGNATURES**

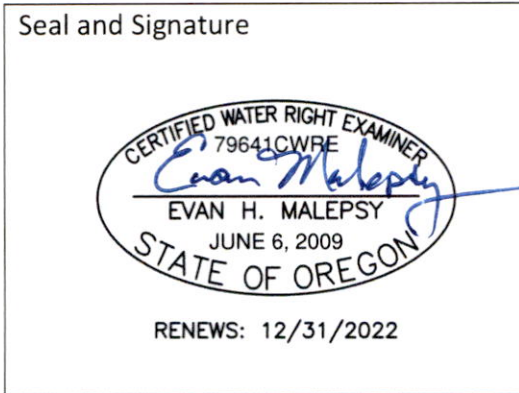
RECEIVED

APR 20 2022

OWRD

CWRE Statement, Seal and Signature

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge.



CWRE NAME Evan Malepsy		PHONE NO. 541-621-2868	ADDITIONAL CONTACT NO. None
ADDRESS 52 Pineridge Lane			
CITY Eagle Point	STATE OR	ZIP 97524	E-MAIL emalepsy@roguecivil.com

Permit Holder's of Record Signature or Acknowledgement

Each permit or transfer holder of record must sign this form in the space provided below.

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge. I request that the Department issue a water right certificate.

SIGNATURE	PRINT OR TYPE NAME	TITLE	DATE
	Joy McEwen	Owner & Permit Holder	4/13/22

**SECTION 3
CLAIM DESCRIPTION**

RECEIVED

APR 20 2022

OWRD

1. Reservoir source and, if from surface water, the tributary:

RESERVOIR NAME OR NUMBER	SOURCE	TRIBUTARY
The Diggs Reservoir	Runoff	East Fork Illinois River

2. Developed use(s), period of use, and acre foot (af) for each use:

RESERVOIR NAME OR NUMBER	USES	SEASON OR MONTHS WHEN WATER WAS APPROPRIATED FOR STORAGE	VOLUME STORED (AF)
The Diggs Reservoir	Multiple Purpose	December 1-May 31	27.5
Total Quantity of Water Stored			27.5

3. Provide a general narrative description of the distribution works. This description must trace the water system from each point of diversion to the reservoir:

The source of water for the reservoir is runoff from higher elevation areas to the west. A cut-off ditch was installed to enable passing of live flow outside the storage season. This ditch is also used to collect runoff and direct it to three 12" pipes that flow into the pond. The 12" pipes have flap-gates that can be closed to prevent water from flowing into the pond outside the storage season.

Reminder: The map associated with this claim must identify the location of the point(s) of diversion, Donation Land Claims (DLC), Government Lots (GLot), and Quarter-Quarters (QQ).

4. Variations:

Was the use developed differently from what was authorized by the permit, permit amendment final order, or extension final order? If yes, describe below.

YES

(e.g. "The permit allowed the development of three reservoirs. The permit holder only developed one of the reservoirs." or "The permit allowed for the storage of 9 acre feet of water. The reservoir was developed to hold 5.2 acre feet.")

The permit required an outlet pipe to evacuate water from the reservoir. The constructed reservoir does not have an outlet pipe, the Permit Holder will use pumps to evacuate the water if needed.

5. Claim Summary:

RESERVOIR NAME OR #	MAXIMUM STORAGE AUTHORIZED BY PERMIT (AF)	MAXIMUM STORAGE DEVELOPED (AF)
The Diggs Reservoir	27.5	27.5

**SECTION 4
SYSTEM DESCRIPTION**

Are there multiple reservoirs?

If "YES" you will need to copy and complete Sections A through E for each reservoir.

Reservoir Name or Number this section describes (only needed if there is more than one):

The Diggs Reservoir

A. Reservoir Location

1. Is the reservoir on-channel?

NO

2. Provide dam outlet location and/or point of diversion(s). There is no dam, this is the overflow location

TWP	RNG	MER	SEC	QQ	GLOT	DLC	MEASURED DISTANCES
40S	8W	W.M.	27	NE/SE			1536' N, 153' W, from SE corner Section 27

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (GLOT), and Quarter-Quarters (QQ).

B. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport the water from the point(s) of diversion to the reservoir.

1. Is a pump used?

NO

If "NO" items 2 through item 5 may be deleted.

6. Additional notes or comments related to the system:

The reservoir does not have a dam, it is dug into the ground, so a dam is not necessary.

C. Gravity Flow Pipe

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the system involve a gravity flow pipe?

YES

If "NO", items 2 through 4 relating to this section may be deleted.

2. Complete the table:

PIPE SIZE	PIPE TYPE	"C" FACTOR	AMOUNT OF FALL	LENGTH OF PIPE	SLOPE	COMPUTED RATE OF WATER FLOW (IN CFS)
12"	HDPE	145	2'	40'	5%	9
12"	HDPE	145	2'	20'	10%	13
12"	HDPE	145	4'	40'	10%	13

3. Provide calculations:

See attached gravity pipe flow calculations.

4. If an actual measurement was taken, provide the following:

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)
NA			

Attach measurement notes.

D. Gravity Flow Canal or Ditch

(THE DEPARTMENT TYPICALLY USES MANNING'S FORMULA FOR CANALS AND DITCHES)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system?

If "NO", items 2 through 4 relating to this section may be deleted.

YES
 RECEIVED
 APR 20 2022
 OWRD

2. Complete the table:

CANAL OR DITCH TYPE (MATERIAL)	TOP WIDTH OF CANAL OR DITCH	BOTTOM WIDTH OF CANAL OR DITCH	DEPTH	"N" FACTOR	AMOUNT OF FALL	LENGTH OF CANAL / DITCH	SLOPE	COMPUTED RATE (IN CFS)
Earth	2'	1'	1.5'	0.025	34'	930'	3.7%	17

3. Provide calculations:

See attached Ditch Capacity Calculation.

4. If an actual measurement was taken, provide the following:

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)
NA			

Attach measurement notes.

E. Reservoir

1. Does the reservoir require the submittal of as-built plans and specifications?

If "YES", answer item 2; items 3 through 8 relating to this section may be deleted.
 If "NO", skip items 2; answer items 3 through 8.

NO

2. Complete the table:

HAVE THE DOCUMENTS BEEN SUBMITTED? YES OR NO	WHEN WERE THE DOCUMENTS SUBMITTED?	HAVE THEY BEEN APPROVED BY THE DEPARTMENT?	NUMBER OF ACRE FEET STORED
NA			

3. If the reservoir stores less than 9.2 acre-feet of water or if the dam is less than 10 feet in height, and as-built plans and specifications are not required, complete the table and items 4 through 8.

MAXIMUM DEPTH	AVERAGE DEPTH	SURFACE AREA (IN ACRES)	VOLUME (IN ACRE FEET)
25'	10.7'	2.57	27.5

4. Provide reservoir volume calculations:

$((10.7') * (2.57 \text{ acre} * 43560 \text{ sf/acre})) / 43560 \text{ cf/af} = 27.5 \text{ acre-feet}$

RECEIVED

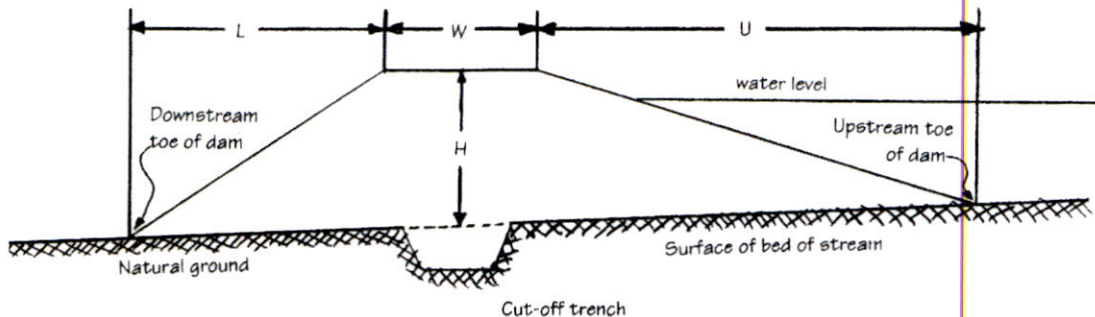
APR 30 2022

OWRD

5. Provide the following information concerning the physical characteristics of the dam:

CREST WIDTH (W)	DAM HEIGHT AT CENTERLINE (H)	DISTANCE FROM DOWNSTREAM TOP OF DAM TO DOWNSTREAM TOE (L)	DISTANCE FROM UPSTREAM TOP OF DAM TO UPSTREAM TOE (U)	WATER LEVEL AT INSPECTION	DOWN-STREAM SLOPE	UP-STREAM SLOPE
NA	NA	NA	NA	NA	NA	NA

Example Dam Profile *This box may be deleted from the form*



6. Provide a drawing showing the cross section of the dam at the maximum section indicating details and dimensions. The drawing should be drawn at a standard even scale.

NA – The reservoir does not have a dam, it is dug into the ground.

7. Describe the outlet works (size and type of the outlet conduit and location):

There are no outlet works. If the reservoir overfills, the excess water overflows to surrounding areas. If the reservoir needs to be drained, a pump will be used.

8. Describe the emergency spillway (dimensions and location):

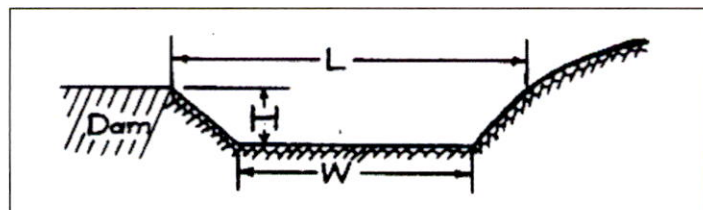
The reservoir does not have a dam therefore there is no emergency spillway but simply a location where overflows leave the reservoir.

BOTTOM WIDTH (W)	TOP WIDTH (L)	SPILLWAY DEPTH (H)
NA	NA	NA

RECEIVED

APR 30 2022

OWRD



**SECTION 5
CONDITIONS**

All conditions contained in the permit, permit amendment, or any extension final order shall be addressed. Reports that do not address all performance related conditions will be returned.

1. Time Limits:

Permits and any extension final orders contain any or all of the following dates; the date when the actual construction work was to begin, the date when the construction was to be completed, and the date when the complete application of water to the proposed was to be completed. These dates may be referred to as ABC dates. Describe how the water user has complied with each of the development timelines established in the permit or extension final order:

	DATE FROM PERMIT	DATE ACCOMPLISHED*	DESCRIPTION OF ACTIONS TAKEN BY WATER USER TO COMPLY WITH THE TIME LIMITS
ISSUANCE DATE	2/22/2017		
BEGIN CONSTRUCTION (A)	By 2/22/2022	2/23/2017	Reservoir has existed since 1860's, water user began enhancing reservoir elements including cut-off ditch upon permit issuance.
COMPLETE CONSTRUCTION (B)	By 2/22/2022	10/5/2021	Finished construction of cut-off ditches and pipes with flap-gates.
COMPLETE APPLICATION OF WATER (C)	By 2/22/2022	5/8/2018	The permitted volume of water was stored during the 2018 storage season.

* must be within period between permit or any extension final order issuance and the date to completely apply water

2. Is there an extension final order(s)?

NO

3. Measurement Conditions:

a. Does the permit, permit amendment, or any extension final order require the installation of a meter or approved measuring device? **YES**

If "NO", items b through f relating to this section may be deleted.

Reminder: If a meter or approved measuring device was required, the COBU map must indicate the location of the device in relation to the point of diversion or appropriation.

b. Has a meter been installed?

NO (Staff Gauge Required, not a meter)

c. Meter Information

POD/POA NAME OR #	MANUFACTURER	SERIAL #	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
NA					

If a meter has been installed, items d through f relating to this section may be deleted.

d. If a meter has not been installed, has a suitable measuring device been installed and approved by the Department?

YES, installed, no additional approval required

e. If "YES", provide a copy of the letter approving the device, if available. If the letter is not available provide the name and title of the Water Resources Department employee approving the measuring device, and the approximate date of the approval:

NAME	TITLE	APPROXIMATE DATE
NA	NA	NA

f. Measurement Device Description

DEVICE DESCRIPTION	CONDITION (WORKING OR NOT)	DATE INSTALLED
Staff Gauge, as required by permit. No additional approval from WRD required.	Working	January 15, 2022

4. Recording and reporting conditions

a. Is the water user required to report the water use to the Department?

RECEIVED
APR 20 2022

NO

If "NO", item b relating to this section may be deleted.

5. Outlet Pipe

a. Is the water user required to install a minimum 8" outlet pipe/conduit?

OWRD

YES

If "NO", items b through c relating to this section may be deleted.

b. Has the outlet pipe been installed?

NO

If "YES", items c relating to this section may be deleted.

c. Does the water user have other means to evacuate the reservoir?

YES

DESCRIBE HOW THE WATER USER PLANS TO EVACUATE THE RESERVOIR	HAS THIS PLAN BEEN APPROVED BY THE DEPARTMENT?	BY WHOM?
A pump	NO	

6. Fish Screening

a. Are any points of diversion required to be screened to prevent fish from entering the point of diversion?

NO

If "NO", items b through e relating to this section may be deleted.

Reminder: Failure to submit evidence of a timely installed fish screen may result in an unfavorable determination. In order to receive a favorable approval, the ODFW/WRD "Fish Screen Inspection" form needs to have been previously submitted or be attached to this form.

7. By-pass Devices

a. Are any points of diversion required to have a by-pass device to prevent fish from entering the point of diversion?

NO

If "NO", items b and c relating to this section may be deleted.

Reminder: If by-pass devices were required, the COBU map must indicate their location in relation to the point of diversion.

8. Other conditions required by permit, permit amendment final order, or extension final order

- a. Was the water user required to restore the riparian area if it was disturbed? **YES**
- b. Was a fishway required? **NO**
- c. Was submittal of a letter from an engineer required prior to storage of water? **NO**
- d. Was submittal of a water management and conservation plan required? **NO**
- e. Other conditions? **NO**

If "YES" to any of the above, identify the condition and describe the water user's actions to comply with the condition(s):

The riparian area was not disturbed during construction.

RECEIVED

APR 20 2022

OWRD

**SECTION 6
ATTACHMENTS**

Provide a list of any additional documents you are attaching to this report:

ATTACHMENT NAME	DESCRIPTION
COBU Map	Claim of Beneficial Use Map
Ditch Capacity Calculation	Calculation used to determine ditch capacity
Gravity Pipe Flow Calculation	Calculation used to determine gravity pipe flow capacity

SECTION 7

CLAIM OF BENEFICIAL USE MAP

The Claim of Beneficial Use Map must be submitted with this claim. Claims submitted without the Claim of Beneficial Use map will be returned. The map shall be submitted on poly film at a scale of 1" = 1320 feet, 1" = 400 feet, or the original full-size scale of the county assessor map for the location.

Provide a general description of the survey method used to prepare the map. Examples of possible methods include, but are not limited to, a traverse survey, GPS, or the use of aerial photos. If the basis of the survey is an aerial photo, provide the source, date, series and the aerial photo identification number.

On-site inspection along with Google Earth aerial photo dated July 2, 2016 were used to prepare the map.

Map Checklist

Please be sure that the map you submit includes ALL the items listed below.
(Reminder: Incomplete maps and/or claims may be returned.)

- Map on polyester film.
- Appropriate scale (1" = 400 feet, 1" = 1320 feet, or the original full-size scale of the county assessor map)
- Township, Range, Section, Donation Land Claims, and Government Lots
- If irrigation, number of acres irrigated within each projected Donation Land Claims, Government Lots, Quarter-Quarters
- Locations of fish screens and/or fish by-pass devices in relationship to point of diversion
- Locations of meters and/or measuring devices in relationship to point of diversion
- Conveyance structures illustrated (pumps, reservoirs, pipelines, ditches, etc.)
- Point(s) of diversion or appropriation (illustrated and coordinates)
- Tax lot boundaries and numbers
- Source illustrated if surface water
- Disclaimer ("This map is not intended to provide legal dimensions or locations of property ownership lines")
- Application and permit number or transfer number
- North arrow
- Legend
- CWRE stamp and signature

Rogue Civil LLC

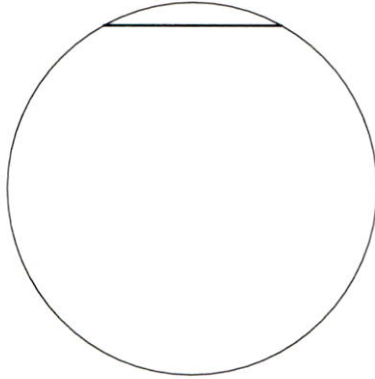
EHM 06:04 07-Mar-22

Project 2022-02

The Diggs Reservoir - COBU

GRAVITY PIPE FLOW (Chezy-Manning)

South Pipe



□ 2"

diameter = 12.0"

slope = 5.0%

material: high density poly

Manning's n = 0.012

depth of flow = 93.82% (max)

wetted perimeter = 2.64'

area = 0.77 s.f.

hydraulic radius = 0.29'

velocity = 12.16 fps

flow = 9.31 cfs

RECEIVED

APR 20 2022

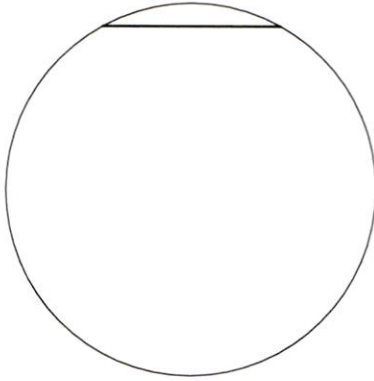
OWRD

Rogue Civil LLC

EHM 06:04 07-Mar-22

Project 2022-02
The Diggs Reservoir - COBU

GRAVITY PIPE FLOW (Chezy-Manning)
North and Middle Pipes



□ 2"

diameter = 12.0"
slope = 10.0%
material: high density poly
Manning's n = 0.012
depth of flow = 93.82% (max)

wetted perimeter = 2.64'
area = 0.77 s.f.
hydraulic radius = 0.29'
velocity = 17.20 fps
flow = 13.16 cfs

RECEIVED

APR 20 2022

OWRD

RECEIVED

APR 20 2022

OWRD

Ditch Capacity Calculation

Top Width (Feet)	2	<input type="button" value="Solve"/>	
Bottom Width (Feet)	1	Gradient (%)	3.7
Depth (Feet)	1.5	Area of Cross-Section (SF)	2
Fall (Feet)	34	Wetted Perimeter (Feet)	4.16228
Length (Feet)	930	Hydraulic Radius (Feet)	0.540569
Manning Roughness Coefficient (0.015 for concrete/steel)	0.025	Maximum Velocity (FPS)	7.542
		Ditch Capacity (CFS, GPM=448.8 x CFS)	17.0