

SURVEY OF FISH PROTECTIVE
FACILITIES AT WATER WITHDRAWALS
ON THE SNAKE AND COLUMBIA RIVERS

by

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INTRODUCTION

Among the many uses of Columbia and Snake River water are withdrawals for irrigation, industry, municipalities, thermal cooling, fish and wildlife propagation, and domestic needs. Agricultural and industrial requirements consume the largest volume of water withdrawn. In the Columbia Basin alone, it is estimated that the land under irrigation will increase by 4.2 million acres between 1970 and 2020, reaching a total of 11,200,000 acres. The upper and middle Snake River, Big Bend, and Horse Heaven Hills areas of Washington and the Umatilla area of Oregon are the major areas of irrigation expansion (U.S. Army Corps of Engineers 1976). This rapid growth in irrigated lands is expanding the use of existing water withdrawal sites and escalating the numbers of new pumping plant sites being constructed. As an example, the total horsepower of pump sites authorized in the area by the Portland and Walla Walla Districts of the U.S. Army Corps of Engineers (CofE) increased from 58,870 in 1969 to 109,942 in 1979.

The impact of expanded water withdrawal on populations of anadromous and resident fishes in the Columbia Basin is a major concern to fisheries agencies. Fish protective facilities are required at these sites, and a 1973 survey of mid-Columbia River pumping plants by the Fish Commission of Oregon (FCO) indicated a need for a continuing inspection program.¹ In 1975, the U.S. Fish and Wildlife Service organized an interagency investigation of irrigation pumping plants on the same reach of the

¹ Fish Commission of Oregon, 1973. FCO-OWC PUMPING STATION SURVEY. Unpublished manuscript, 10 p., Oregon Department of Fish and Wildlife, 506 S.W. Mill, Portland, Oregon.

Columbia River as the FCO's 1973 survey, and out of 27 sites visited, 14 had inadequate fish protective facilities. Of those 14 sites, several had the same discrepancies noted in the 1973 inspection.²

Proliferation of pumping stations and new pump intake and screen designs have occurred with the growth of agriculture along the Columbia and Snake Rivers. Concern for the protection of anadromous and resident fish populations resulted in formulation of the current study conducted by the National Marine Fisheries Service (NMFS) with funding provided by the Bonneville Power Administration. The purpose was to survey all water withdrawals on the main stem Columbia River from Bonneville Dam to Wells Dam, and on the main stem Snake River from its confluence with the Columbia River to Lewiston, Idaho (Figure 1). The study is two-phased: I) survey and inventory withdrawal sites and II) determine if juvenile salmonids and resident fish are being afforded adequate protection and develop recommendations for improving fish protection where necessary.

Phase I has been completed and the results contained in this report are intended to serve as a baseline to begin a thorough evaluation of fish protective facilities at water withdrawal sites throughout the Columbia Basin.

² U.S. Fish and Wildlife Service, 1975. COLUMBIA RIVER IRRIGATION PUMPING PLANT FISH SCREEN INVESTIGATION. Unpublished manuscript, 15 p. Division of River Basin Studies, Fish and Wildlife Service, 919 N.E. 19th Ave., Portland, Oregon 97232.

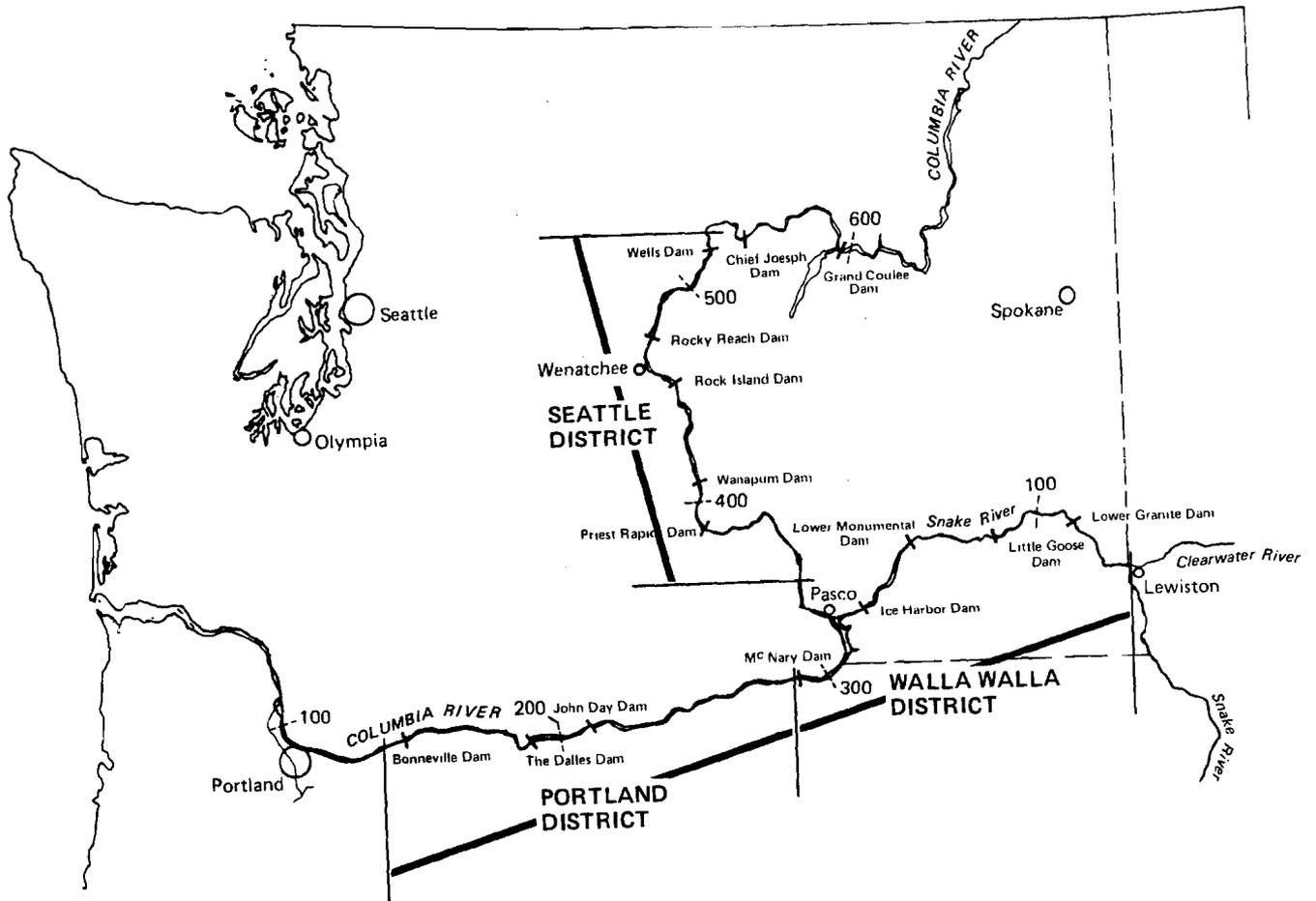


Figure 1.--The portions of the Columbia and Snake Rivers surveyed. Selected river miles and U.S. Army Corps of Engineers' districts having responsibility are shown.

PROCEDURES

The study area lies within the purview of the North Pacific Division (NPD) of the CofE. The NPD is divided into three districts: 1) Portland, 2) Walla Walla, and 3) Seattle. In their survey, the authors adapted the jurisdictional areas of these three districts as major subdivisions of the study area (Figure 1).

Phase I was coordinated with state and federal fishery and water management agencies to ensure maximum review and use of the data, and it was conducted in three steps: 1) inventory withdrawal site locations, ownership, and operation and maintenance data; 2) compile information on physical structures; and 3) conduct underwater inspections to verify structure information and condition of fish protective facilities.

Inventory and Data Processing

Public records of water rights and CofE structure permits provided a starting point for the inventory. Information on water rights was compiled from records furnished by the State of Washington Department of Ecology, Oregon Water Resource Department, and the Department of Water Resources of Idaho. The CofE, pursuant to Section 10 of the River and Harbor Act of 1899, is responsible for permits authorizing structures located on navigable waters and adjacent federal shorelines. CofE permits were available for review for structures not owned by the CofE and built after December 1968 (structures established prior to December 1968 were exempt from the permit requirement by a "Grandfather Clause" in Federal Regulation CFR 322.46).

During initial efforts to locate withdrawal sites, the authors received assistance from the Regulatory Functions Unit of NPD and each of its districts. As the survey progressed, some discrepancies were noted in the records, and information compiled from this study will help update

existing records. In addition, the Columbia River and Tributaries Review Study (CRT) was highly useful in our survey (CofE 1977).

Available records of water appropriations and CofE public notices and structure permits were reviewed, and pertinent information on description, location, ownership, mode of operation, authorized volume of withdrawal, etc., were entered into our data bank. Some water rights data were obtained by cross referencing name and legal description of property; water rights for a number of withdrawal sites are still undetermined.

Site locations obtained from public records were noted on aerial photos, maps, and navigation charts. These were cross-checked with actual aerial, boat, and vehicle surveys to reveal all site locations, including "Grandfathered" sites and some operating without any known water rights or permit of record. As anticipated, some sites were not found in the records search and were located by close shoreline inspection.

Each site has been assigned an inventory number which identifies it from all other sites and allows location by river and river mile. The data we collected about each site were entered into a computerized data base--permitting easy access for adjustments, selection, and sorting in a variety of combinations. A standard printout of this information is presented as Appendix A.

When sites were located by actual survey, a photographic record was made of the site. Drawings were made of representative sites to illustrate the variety of structures and fish protective facilities noted in the field surveys. These photos and drawings are found in Appendix B.

Field Inspections

Each site was visited by boat or vehicle and more detailed information on the structure, pumps, and screening facility was collected to supplement and verify data obtained from the records search.

Underwater inspections by divers were conducted at each withdrawal site to determine dimensions of the underwater structure, type and mesh size of screening, and condition and cleanliness of screen material. Observations of fish at or near intakes were noted. Diving was sometimes restricted due to high turbidities or extremely cold water.

Federal and state agencies have established criteria for the open area of screening material and the flow velocities at intakes. Although there are some differences between agencies regarding criteria, NMFS criteria for salmonid fry calls for a maximum clear opening of 0.14 inch and a maximum approach velocity of intake water immediately in front of the screen of 0.5 fps.³ These criteria were used as the base line for our inspections of the fish protective facilities. Complete NMFS fish screening criteria are presented in Appendix C. Rough measurements of intake velocities were taken by divers with a flow meter when intake flows could be detected. Only limited data on flow conditions in and around the intake structures were obtained because pumps at some sites were not operating. More detailed flow studies will be conducted in Phase II.

³ National Marine Fisheries Service, NMFS FISH SCREENING FACILITY CRITERIA. Unpublished manuscript, 1 p., Environmental and Technical Services Division, NOAA, National Marine Fisheries Service, Northwest Regional Office, P.O. Box 4332, Portland, Oregon 97280

RESULTS

A summation of fish protective facilities (by district) at the 205 withdrawal sites located within the initial area of study is presented in Table 1. The large difference between number of sites and number of CofE permits is due to the CofE not issuing permits for sites installed prior to the end of December 1968 ("Grandfathered" sites) and sites owned by the CofE. The horsepower rating of pump motors was used as an indication of the relative size of pump sites. Screen data are separated into categories based on the maximum size of the screen's clear opening. Intakes with no screening or those with screening completely deteriorated were combined into the "no screen" category. The screening of nine sites is unknown because we were unable to locate the end of the intake line due to debris or poor visibility.

Water withdrawal sites are located where the owners/operators need them and follow no set pattern or criteria. However, further study is needed to determine if certain locations in relation to shoreline and river flow have an impact on fish populations. This potential problem will be addressed to a limited extent in FY80.

Several basic types of water withdrawal sites were noted during the survey: 1) a vault-like structure with an underwater, rectangular shaped, screened opening; 2) a pier-like structure supporting turbine pumps out from the shoreline; 3) a combination pier/vault created by closing in the area under a pier with driven sheet piling or other material; and 4) a simple arrangement of a pump with a single intake line extending to a depth below the low water elevation. Examples of the above are illustrated in Appendix B.

Table 1. A summary indicating sites with CofE permits, pump size, and screen data for sites inspected in the three CofE Districts.

District	No. of sites inspected	No. of sites inspected with CofE permits	Pump size ^{a/}			Screen data			No screens	Screening unknown
			S	M	L	<0.14 inch mesh	>0.14 to <0.25 inch open mesh	>0.25 inch open mesh		
Portland	27	22	3	7	17	13	4	5	3	2
Walla Walla	57	47	13	16	28	24	17	5	8	3
Seattle	<u>121</u>	<u>8</u>	<u>80</u>	<u>21</u>	<u>11</u>	<u>25</u>	<u>31</u>	<u>56</u>	<u>5</u>	<u>4</u>
Total	205	77	105	44	56	62	52	66	16	9

^{a/} S = <50HP M = 50 to <500HP L = 500HP and larger

A variety of screening techniques were encountered (examples are shown in Appendix B). The withdrawal sites having pump motors larger than 50 hp were generally screened with some form of commercially manufactured screening. Commercial screening materials observed included: wire mesh or hardware cloth, monofilament mesh, and stainless steel screening. These materials were incorporated into stationary vertical screen panels, traveling screens, or box or cylinder shapes to strain water for individual or multiple pumps.

Smaller pump sites (less than 50 hp) generally incorporated a single intake line with a straining device on the end. With the exception of some commercially manufactured check valves with built in screening (commonly called foot valves), most screening used on smaller sites was some form of an improvised screening device such as: bars or screen material tack welded over the end of the intake pipe, a metal pipe with slashes cut with a welding torch, a perforated metal oil drum attached to the end of an intake line, a cylinder or cone fashioned from wire mesh or expanded metal grating, or special sections of perforated pipe.

The mesh size (clear opening) and the condition of screening material used at withdrawal sites is of primary interest because large populations of salmonid fry and fingerlings migrate past many of the sites surveyed. Obviously, if a large number of screened structures were out of criteria (e.g. mesh size opening too large) losses of young fish could be serious. Table 2 summarizes the results of measurements taken of the clear open area of screening materials used to strain water entering pump intakes.

Table 2.--Number of sites inspected in each CofE District in 1979 and number which had no intake screening or existing screen material was out of criteria.

District	Sites inspected	Sites out of criteria ^a	
	(No.)	(No.)	(%)
Portland	27	12	44
Walla Walla	57	30	53
Seattle	<u>121</u>	<u>92</u>	76
Total	205	134	65

^a The more restrictive NMFS criteria for salmonid fry served as the limits for considering a site to be in or out of criteria.

The number of water withdrawal sites with damaged screens is shown in Table 3. Deterioration of screens was caused by severe stages of rust or corrosion or damage resulting from rough handling, ice buildup, or plugging which caused an increase in head loss and eventual collapse of screen panels resulting in gaps or openings in the screening. Plugging of screens by the growth of aquatic vegetation or impinged debris is a serious problem at many sites (especially the smaller ones). A small number of sites had mild electrical fields in conjunction with underwater screening. Apparently this is an effort to control biofouling.

Based on interviews with operators of pumping stations and observations by divers, we arrived at some general conclusions regarding screen materials. Wire mesh screening was least durable because of rust and corrosion. Monofilament mesh has only been in use in this area a few years, and prolonged exposure to sun and weather causes brittleness and eventual breakdown. Stainless steel screens, such as manufactured by Johnson Screens,⁴ appear to be holding up very well with minimum maintenance.

Although the underwater inspection was conducted after the major outmigration of juvenile anadromous fish, juvenile salmon, Oncorhynchus sp., were observed in the immediate vicinity of some withdrawals. Impingement of juvenile salmonids was not observed, but impingement and entrainment of several hundred threespine stickleback, Gasterosteus aculeatus, were observed at a withdrawal site near Wenatchee, Washington.

⁴ Reference to trade names does not imply endorsement by the National Marine Fisheries Service, NOAA.

Table 3.--Number of sites inspected in 1979, and number which had damaged screens. (These are not included in Table 2).

	Sites inspected	Sites with screens showing damage	
	(No.)	(No.)	(%)
District			
Portland	27	5	19
Walla Walla	57	2	4
Seattle	<u>121</u>	<u>5</u>	4
Total	205	12	6

This appeared to be the result of an accumulation of aquatic vegetation impinged on the vertical screen panel which caused an increase in intake velocity over the remaining open area on the screen. The increased flow also pulled the stickleback around the screen panels into the pump chamber. A similar impingement situation was noted on a simple 6-inch diameter foot valve.

The uncorrected discrepancies noted at sites in earlier studies ¹, ² and the number of sites with problems in this study are definitely cause for concern by fisheries agencies. Of 205 sites inspected in the study, 82 or 40% had screens with open areas larger than 0.25 inch or in a few cases no screen at all. An additional 12 structures or 6% had screens which were damaged. Only five sites were found to have intake velocities above 0.5 fps; however, we were unable to measure flows on many because they were not operating at the time of our inspection. Velocity readings will be taken during the peak pumping season at those sites in FY80.

Review of the data compiled from record reviews and surface and underwater inspections produced three major areas of concern: 1) sites having screens with oversize open areas or in poor condition with breaks or missing sections; 2) intakes with flows higher than the acceptable criteria; and 3) screens and intake flows well within the criteria, but poorly cleaned and maintained thereby creating a high probability of problems in the near future.

RECOMMENDATIONS

1. A program of annual surveillance and monitoring of water withdrawals to ensure that fish protective facilities at withdrawals remain within the acceptable criteria. This surveillance program should be conducted by an agency with the authority and provisions to enforce the conditions of the structure permits.

2. Administration of CofE structure permits on the Columbia River upstream from Richland, Washington should be upgraded.

3. Studies planned and funded for FY80 will only begin to assess the impact of present and future water withdrawals on fishes of the Columbia Basin. More detailed studies are needed to determine the occurrence, distribution, migration routes, and behavior of fish populations at water withdrawal sites. These studies should also quantify fish losses; test improvements in fish protective facilities; and develop specifications for design, installation, operation, and maintenance of fish protective facilities at water withdrawals.

LITERATURE CITED

- U.S. Army Corps of Engineers, 1976. Irrigation, Depletions/Instream Flow Study. Columbia River and Tributaries Review Study. Walla Walla District, Corps of Engineers.
- U.S. Army Corps of Engineers, 1977. Reach Inventory, Mid-1980's System Description. Columbia River and Tributaries Review Study. Corps of Engineers, North Pacific Division, Portland, Oregon.

APPENDIX A

STANDARD PRINTOUT OF INFORMATION
RECORDED IN DATA BASE

The available information on each withdrawal site is summarized on the computer printouts. Headings with no information following indicate no information was applicable to that particular site or no information was available. Water rights information was compiled from records of the State of Washington Department of Ecology, Oregon Water Resource Department, and Idaho Department of Water Resources. Most of the entries on the printout are self explanatory; however, a few need explanation:

INVENTORY NO.

Codes:

Clw = Clearwater River	R = right bank
Col = Columbia River	Is = island
Snk = Snake River	A = first site, same location
Umt = Umatilla River	B = second site, same location
L = left bank	C = third site, same location, etc.

Example:

Col 301.7 LB = A withdrawal site located on the Columbia River at river mile 301.7, the site is on the left bank (facing downstream), and it is the second site (facing downstream) at the approximate same river mile.

CRT NO.

The number of the volume in the Columbia River and Tributaries Review Study in which the site appears.

SITE NO.

The number assigned the site in the Columbia River and Tributaries Review Study.

LOCATION FROM SHORELINE TO PUMPS

Codes:

+ = pipe out into water.
- = recessed from original shoreline
= = even with existing shoreline.

Example:

+25 ft = A pipe out into the water 25 feet from shore.

LOCATION FROM PUMPS TO SCREENS

Codes:

- ↑ = pier type of structure
- ↑+ = pier out over water beyond shoreline
- ↑- = pier recessed from original shoreline
- ↑= = pier even with existing shoreline

SCREEN CODE

Codes:

- Bx = box
- Co = cone
- Cv = culvert
- Cy = cylinder
- D = drum
- Ep = end of pipe
- F = site used for fire protection only
- Fv = foot valve (check valve with screen)
- N = none
- P = panel
- Pp = pipe with slashes
- U = unable to locate or unknown
- 1 = removable screen
- 2 = nonremovable screen
- 3 = nonremovable screen cleaned by high pressure air system
- 3 = mechanical screen cleaned by high pressure water system

Example:

Pp2 = pipe with slashes with nonremovable screens

SHORE DISTANCE CODE

Codes for this entry are the same as those for LOCATION FROM SHORELINE TO PUMPS.

WATER ELEVATION

Distance from pump platform to water surface (varies with river level).

INTAKE VELOCITY READINGS

Maximum reading at the site.

AMBIENT STREAM VELOCITY

Maximum reading at the site.

INVENTORY NO. C01174.7L

PUMP

NAME Wilson Brothers Farms ADDRESS P.O. Box 246, Mosier, OR 97040 PHONE
DIVERSION LOCATION
STATE OR COUNTY Wasco TOWN RIVER Columbia RIVER MILE 174.7 BANK L QUAD.MAP The Dalles SEC 31 T 03N R 12E
CCL.R.STUDY REPT.NO. 32 SITE NO. 80-57 C OF E PUB. NOTICE DATE
C OF E PERMIT NO. 071-DYA-1-001456 DATE 05/14/74

WATER RIGHT

WATER RESOURCE AREA DRO3 APPLICATION NO. 32475 PERMIT NO. 29331 CERTIFICATE NO. 38191 PRIORITY DATE
PERMIT DATE 02/03/64

QUANTITY-CFS 2.25 ACRE FT/YR 2.25 PURPOSE Irrigation ACRES IRRIGATED 180

OTHER

ACCESS ROUTE

PUMP INFORMATION PUD
LOCATION FROM SHORELINE TO PUMPS +- TYPE OF STRUCTURE Wooden pier
REMARKS

NUMBER HP SIZE OF TYPE OF
OF PUMPS EACH DISCHARGE DISCHARGE
1 75 0 Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder SCREEN CODE Cy2 DISTANCE FROM SHORELINE 129ft SHORE DIST. CODE +-
SUBMERGENCE 2ft TYPE OF MESH MATERIAL Expand metal MESH SIZE 0.75in WIRE SIZE PERFORATION SIZE
HOLES/INCH WIDTH OR DIAMETER OF SCREEN 3ft10.0in HEIGHT OR LENGTH OF SCREEN 4ft
SCREEN CONDITION TRASH RACK
FRAME BAR SPACING TRASH FENCE
MESH Rusted solid RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

FLOW READINGS

FISH BYPASS SYSTEM

SCOURING

AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F

WATER ELEVATION INSPECTION DATE 11/05/79 TIME 1600

FISH SPECIES SEEN

INVENTORY NO. C01187.6R

PUMP

NAME North Dalles Irrigation Dist ADDRESS P.O. Box 747, Dallesport, WA 98617 PHONE
DIVERSION LOCATION
STATE WA COUNTY Klickitat TOWN Dalles RIVER Columbia RIVER MILE 187.6 BANK R QUAD.MAP The Dalles SEC 28 T 02N R 13E
CCL.R.STUDY REPT.NO. 32 SITE NO. 80-75 C OF E PUB. NOTICE DATE
C OF E PERMIT NO. 071-DYA-1-001202 DATE 02/26/75

WATER RIGHT

WATER RESOURCE AREA WA30 APPLICATION NO. 17429 PERMIT NO. 12866 CERTIFICATE NO. 03566 PRIORITY DATE 06/26/62
PERMIT DATE 11/29/62

QUANTITY-CFS 0.67 ACRE FT/YR 240.0 PURPOSE Irrigation ACRES IRRIGATED 330

OTHER

ACCESS ROUTE

PUMP INFORMATION PUD
LOCATION FROM SHORELINE TO PUMPS +- TYPE OF STRUCTURE Metal pier
REMARKS

NUMBER HP SIZE OF TYPE OF
OF PUMPS EACH DISCHARGE DISCHARGE
1 200 0 Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder expanded metal SCREEN CODE Cy2 DISTANCE FROM SHORELINE SHORE DIST. CODE +-
SUBMERGENCE 16ft TYPE OF MESH MATERIAL Expand metal MESH SIZE 0.25in WIRE SIZE PERFORATION SIZE
HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2ft HEIGHT OR LENGTH OF SCREEN 3ft
SCREEN CONDITION TRASH RACK
FRAME BAR SPACING TRASH FENCE
MESH RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

FLOW READINGS

FISH BYPASS SYSTEM

SCOURING

AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F

WATER ELEVATION INSPECTION DATE 11/05/79 TIME 1530

FISH SPECIES SEEN

INVENTORY NO. Col188.9L

PUMP

NAME Aluminum Co.

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE OR COUNTY Wasco

TOWN The Dalles RIVER Columbia RIVER MILE 188.9 BANK L QUAD.MAP The Dalles SEC 33 T 02N R 13E

COL.R.STUDY REPT.NO. 32 SITE NO. 8D-78

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

0 ACRE FT/YR

0 PURPOSE Manufacturing

ACRES IRRIGATED

0

OTHER

ACCESS ROUTE

PLD

PUMP INFORMATION

TYPE OF STRUCTURE Pier

LOCATION FROM SHORELINE TO PUMPS +-

LOCATION FROM PUMPS TO SCREENS +

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

6

200

(INCHES)

FISH SCREEN

PUMP NO. 1

SCREEN DESCRIPTION

TYPE OF SCREEN Rectangular basket

SCREEN CODE P1

DISTANCE FROM SHORELINE

SHORE DIST. CODE +-

SUBMERGENCE 22ft TYPE OF MESH MATERIAL Plate

MESH SIZE

WIRE SIZE

PERFORATION SIZE 0.125

HOLES/INCH 3 WIDTH OR DIAMETER OF SCREEN 1ft6in

HEIGHT OR

LENGTH OF SCREEN 1ft

SCREEN CONDITION

TRASH RACK

TRASH FENCE Cyclone

FRAME

BAR SPACING

RELATION TO SCREEN

MESH Two inch hole in lower portion of the screen.

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 11/05/79

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

FISH SCREEN

PUMP NO. 2

SCREEN DESCRIPTION

TYPE OF SCREEN Rectangular basket

SCREEN CODE P1

DISTANCE FROM SHORELINE

SHORE DIST. CODE +-

SUBMERGENCE 22ft TYPE OF MESH MATERIAL Plate

MESH SIZE

WIRE SIZE

PERFORATION SIZE 0.125

HOLES/INCH 3 WIDTH OR DIAMETER OF SCREEN 1ft6in

HEIGHT OR

LENGTH OF SCREEN 1ft

SCREEN CONDITION

TRASH RACK

TRASH FENCE Cyclone

FRAME

BAR SPACING

RELATION TO SCREEN

MESH Good

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

FISH SCREEN

PUMP NO. 3-5

SCREEN DESCRIPTION

TYPE OF SCREEN Rectangular baskets

SCREEN CODE P1

DISTANCE FROM SHORELINE

SHORE DIST. CODE +-

SUBMERGENCE 22ft TYPE OF MESH MATERIAL Hardware

MESH SIZE

0.125in WIRE SIZE 12

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 1ft6in

HEIGHT OR

LENGTH OF SCREEN 3ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE Cyclone

MESH Good

RELATION TO SCREEN In front

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 11/05/79

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

FISH SCREEN

PUMP NO. 6

SCREEN DESCRIPTION

TYPE OF SCREEN Rectangular basket

SCREEN CODE P1

DISTANCE FROM SHORELINE

SHORE DIST. CODE +-

SUBMERGENCE 22ft TYPE OF MESH MATERIAL Hardware

MESH SIZE

0.25in WIRE SIZE B

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 1ft6in

HEIGHT OR

LENGTH OF SCREEN 3ft

SCREEN CONDITION

TRASH RACK

TRASH FENCE Cyclone

FRAME

BAR SPACING

RELATION TO SCREEN In front

MESH Good

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 11/05/79

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col189.0L

PUMP

NAME US Dept. of Int Bur of Reclam ADDRESS Box 043-550 W Fort St.,Boise, ID 83702

PHONE

DIVERSION LOCATION

STATE WA COUNTY Wasco TOWN The Dalles RIVER Columbia RIVER MILE 189.0 BANK L QUAD.MAP The Dalles SEC 33 T 02N R 13E

COL.R.STUDY REPT.NO. 32 SITE NO. BD-78 C OF E PUB. NOTICE

DATE

C OF E PERMIT NO. Public Law

DATE 09/13/60

WATER RIGHT

WATER RESOURCE AREA DRO4 APPLICATION NO. 47024 PERMIT NO. 35177 CERTIFICATE NO.

PRIORITY DATE

PERMIT DATE 06/01/70

QUANTITY-CFS 12 ACRE FT/YR 0 PURPOSE Irrigation

ACRES IRRIGATED 5670

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Vault

LOCATION FROM SHORELINE TO PUMPS =

LOCATION FROM PUMPS TO SCREENS =

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
2	150	0	
1	300	0	
2	600	0	

REMARKS

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 4 Panels

SCREEN CODE P1 DISTANCE FROM SHORELINE

SHORE DIST. CODE =

SUBMERGENCE TYPE OF MESH MATERIAL Wire

MESH SIZE 0.25in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2ft6in

HEIGHT OR LENGTH OF SCREEN 8ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING 2.5in TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 11/05/79 TIME 1500

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col204.21s

PUMP

NAME

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Klickitat TOWN The Dalles RIVER Columbia RIVER MILE 204.2 BANK I QUAD.MAP The Dalles SEC 13 T 02N R 15E

COL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS ACRE FT/YR PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Ground

LOCATION FROM SHORELINE TO PUMPS -17ft

LOCATION FROM PUMPS TO SCREENS +42ft

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	15	6	Pipe

REMARKS

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

SCREEN CODE Pp2 DISTANCE FROM SHORELINE 25ft

SHORE DIST. CODE +

TYPE OF SCREEN Cylinder

MESH SIZE .375x2.5 WIRE SIZE

PERFORATION SIZE

SUBMERGENCE 8ft TYPE OF MESH MATERIAL Pipe

HEIGHT OR LENGTH OF SCREEN 1ft

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6in d

TRASH RACK

SCREEN CONDITION

BAR SPACING

TRASH FENCE

FRAME

RELATION TO SCREEN

MESH

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 11/06/79 TIME 1400

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col207.0R

PUMP

NAME Arthur N. Jaekel

ADDRESS ,Wishram,WA 98673

PHONE

DIVERSION LOCATION

STATE WA COUNTY Klicitat TOWN The Dalles RIVER Columbia RIVER MILE 207.0 BANK R QUAD.MAP The Dalles SEC 12 T 02N R 15E

COL.R.STUDY REPT.NO. 32 SITE NO. TD-35 C OF E PUB. NOTICE

DATE

C OF E PERMIT NO. Letter

DATE 09/11/68

WATER RIGHT

WATER RESOURCE AREA WA30 APPLICATION NO. 20672 PERMIT NO. 15258 CERTIFICATE NO. 10927 PRIORITY DATE 12/18/67

PERMIT DATE 06/20/68

QUANTITY-CFS 20 ACRE FT/YR PURPOSE Irrigation

ACRES IRRIGATED 130

OTHER

ACCESS ROUTE

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS -27ft

LOCATION FROM PUMPS TO SCREENS +32ft

TYPE OF STRUCTURE Concrete

PUD

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE	REMARKS
1	100	8	Pipe	

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Wire cylinder

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 15ft

SHORE DIST. CODE +

SUBMERGENCE 7ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.56in WIRE SIZE 14

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2ft d

HEIGHT OR LENGTH OF SCREEN 2ft2in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH 0.25 screen inside larger screen

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 11/06/79 TIME 1330

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col241.7R

PUMP

NAME Wilbur C. Seely

ADDRESS Box 6,Roosevelt,WA 99356

PHONE

DIVERSION LOCATION

STATE WA COUNTY Klicitat TOWN RIVER Columbia RIVER MILE 241.7 BANK R QUAD.MAP The Dalles SEC 19 T 03N R 21E

COL.R.STUDY REPT.NO. 32 SITE NO. JD-26 C OF E PUB. NOTICE

DATE

C OF E PERMIT NO. 000086

DATE 06/24/71

WATER RIGHT

WATER RESOURCE AREA WA31 APPLICATION NO. 20422 PERMIT NO. 15030 CERTIFICATE NO. PRIORITY DATE 10/02/67

PERMIT DATE 01/17/67

QUANTITY-CFS 7.0 ACRE FT/YR 1360. PURPOSE Irrigation

ACRES IRRIGATED 340

OTHER

ACCESS ROUTE

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS -18ft

LOCATION FROM PUMPS TO SCREENS -18ft

TYPE OF STRUCTURE I Beams

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE	REMARKS
2	200	11	Pipe	I Beams and Wood Deck

FISH SCREEN

PUMP NO. 1

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 18ft

SHORE DIST. CODE -

SUBMERGENCE 3ft TYPE OF MESH MATERIAL Hardware

MESH SIZE 0.125in WIRE SIZE 10

PERFORATION SIZE

HOLES/INCH 4 WIDTH OR DIAMETER OF SCREEN 3ft d

HEIGHT OR LENGTH OF SCREEN 5ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Rusted

RELATION TO SCREEN

SEALS Two inch space around top of cylinder.

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 7ft4in

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 11/07/79 TIME 1030

FISH BYPASS SYSTEM

FISH SPECIES SEEN

FISH SCREEN

PUMP NO. 2

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 18ft

SHORE DIST. CODE -

SUBMERGENCE 3ft TYPE OF MESH MATERIAL Hardware

MESH SIZE 0.125in WIRE SIZE 10

PERFORATION SIZE

HOLES/INCH 4 WIDTH OR DIAMETER OF SCREEN 3ft d

HEIGHT OR LENGTH OF SCREEN 5ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Rusted

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 7ft4in

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 11/07/79 TIME 1030

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col252.5LA
PUMP
NAME D.K. Land and Livestock ADDRESS ,,OR PHONE
DIVERSION LOCATION
STATE OR COUNTY Gilliam TOWN RIVER Columbia RIVER MILE 252.5 BANK L QUAD.MAP The Dalles SEC 01 T 03N R 22E
COL.R.STUDY REPT.NO. 32 SITE NO. JD-33.5 C OF E PUB. NOTICE DATE
C OF E PERMIT NO. 000580 DATE 03/26/76

WATER RIGHT
WATER RESOURCE AREA APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE
PERMIT DATE
QUANTITY-CFS ACRE FT/YR PURPOSE Irrigation ACRES IRRIGATED
OTHER (Temporary structure) (Willow Creek Arm)
ACCESS ROUTE PLD
PUMP INFORMATION TYPE OF STRUCTURE
LOCATION FROM SHORELINE TO PUMPS 12ft LOCATION FROM PUMPS TO SCREENS +Varies
REMARKS Not in use at this time
NUMBER HP SIZE OF DISCHARGE TYPE OF DISCHARGE
OF PUMPS EACH (INCHES)
1 600 8 Pipe

FISH SCREEN
PUMP NO.
SCREEN DESCRIPTION
TYPE OF SCREEN Pump not operating SCREEN CODE U DISTANCE FROM SHORELINE SHORE DIST. CODE
SUBMERGENCE TYPE OF MESH MATERIAL MESH SIZE WIRE SIZE PERFORATION SIZE
HOLES/INCH WIDTH OR DIAMETER OF SCREEN HEIGHT OR LENGTH OF SCREEN
SCREEN CONDITION TRASH RACK TRASH FENCE
FRAME BAR SPACING
MESH RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT
SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE TIME
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col252.5LB
PUMP
NAME C & G Ranch ADDRESS P.O. Box 817,Hepner,OR 97836 PHONE
DIVERSION LOCATION
STATE OR COUNTY Gilliam TOWN RIVER Columbia RIVER MILE 252.5 BANK L QUAD.MAP The Dalles SEC 01 T 03N R 22E
COL.R.STUDY REPT.NO. 32 SITE NO. JD-33.5 C OF E PUB. NOTICE DATE
C OF E PERMIT NO. 071-OYA-1-001036 DATE 01/24/73

WATER RIGHT
WATER RESOURCE AREA DRO7 A APPLICATION NO. 46806 PERMIT NO. 35002 CERTIFICATE NO. PRIORITY DATE
PERMIT DATE 03/12/70
QUANTITY-CFS 2.0 ACRE FT/YR 0 PURPOSE Irrigation ACRES IRRIGATED 160
OTHER Water Rights Include A,B,C (Willow Creek Arm)Water Rights under Dris Crisp; Dris & Doris Crisp
ACCESS ROUTE PLD
PUMP INFORMATION TYPE OF STRUCTURE Wood raft
LOCATION FROM SHORELINE TO PUMPS +Floating LOCATION FROM PUMPS TO SCREENS
REMARKS App# 46809 Perm# 35005 App# 53497 Perm# 38225 Perm
Date 03/12/70;04/08/75 Acres 160;756 CFS 2.0;18.9
Extreme silt problem.
NUMBER HP SIZE OF DISCHARGE TYPE OF DISCHARGE
OF PUMPS EACH (INCHES)
2 60 6 Pipe
1 50 6 Pipe

FISH SCREEN
PUMP NO.
SCREEN DESCRIPTION
TYPE OF SCREEN Cylinder SCREEN CODE Cy2 DISTANCE FROM SHORELINE Floating SHORE DIST. CODE +
SUBMERGENCE 3ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.375in WIRE SIZE 10 PERFORATION SIZE
HOLES/INCH 2 WIDTH OR DIAMETER OF SCREEN HEIGHT OR LENGTH OF SCREEN
SCREEN CONDITION TRASH RACK TRASH FENCE
FRAME BAR SPACING
MESH Rusted RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT
SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE TIME
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col252.5LC

PUMP

NAME Boeing Agri- Industrial Co. ADDRESS P.O. Box 139, Boardman, OR 97818 PHONE
 DIVERSION LOCATION
 STATE OR COUNTY Gilliam TOWN RIVER Columbia RIVER MILE 252.5 BANK L QUAD. MAP The Dalles SEC 36 T 04N R 22E
 COL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE DATE
 C OF E PERMIT NO. 071-OYA-2-002537 DATE 02/08/78

WATER RIGHT

WATER RESOURCE AREA DRO7 A APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE
 QUANTITY-CFS 132000 ACRE FT/YR 0 PURPOSE Irrigation (Willow Creek Arm) ACRES IRRIGATED 15000
 OTHER Leased to Simtag Farms. Water Rights Include A,B,C,D,EC of E Permit 071-OYA-2-000484 Date 12/23/71
 ACCESS ROUTE PUD

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS ← LOCATION FROM PUMPS TO SCREENS ← TYPE OF STRUCTURE Pier
 NUMBER HP SIZE OF DISCHARGE TYPE OF DISCHARGE REMARKS Water Rights B,C,D,E App# 97818;54099;51976 Perm#
 OF PUMPS EACH (INCHES) DISCHARGE 40920;37346 Cert# 24500 Perm Date 12/23/71;04/02/7
 11 1250 0 Pipe 4 Acres 4398;1404 CFS 130;351
 12 600 12 Pipe
 1 400 10 Pipe
 1 200 8 Pipe

FISH SCREEN

PUMP NO. #1
 SCREEN DESCRIPTION
 TYPE OF SCREEN 12 Panels SCREEN CODE P1 DISTANCE FROM SHORELINE Inlet SHORE DIST. CODE ←
 SUBMERGENCE 10ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.125in WIRE SIZE 14 PERFORATION SIZE
 HOLES/INCH 6 WIDTH OR DIAMETER OF SCREEN 7ft HEIGHT OR LENGTH OF SCREEN 20ft
 SCREEN CONDITION TRASH RACK
 FRAME BAR SPACING TRASH FENCE
 MESH All of the panels were in good condition RELATION TO SCREEN
 SEALS Seals appear to be in good condition

DEBRIS LOCATION AND AMOUNT Branches etc., and fresh water sponge

SEDIMENTATION Silt around area SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION 13ft8in
 FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE 04/25/79 TIME 1410
 FISH BYPASS SYSTEM FISH SPECIES SEEN

FISH SCREEN

PUMP NO. #2
 SCREEN DESCRIPTION
 TYPE OF SCREEN 8 Panels SCREEN CODE P1 DISTANCE FROM SHORELINE Inlet SHORE DIST. CODE ←
 SUBMERGENCE 5ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.125in WIRE SIZE 14 PERFORATION SIZE
 HOLES/INCH 6 WIDTH OR DIAMETER OF SCREEN 6ft HEIGHT OR LENGTH OF SCREEN 14ft6in
 SCREEN CONDITION TRASH RACK
 FRAME BAR SPACING TRASH FENCE
 MESH Appears in good condition (Low visibility) RELATION TO SCREEN
 SEALS

DEBRIS LOCATION AND AMOUNT Fresh water sponge growing on screens.

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION 10ft5in
 FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE 04/25/79 TIME 1410
 FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col261.01s

PUMP

NAME Wash. State Park ADDRESS ,Crow Butte,WA PHONE
 DIVERSION LOCATION
 STATE WA COUNTY Benton TOWN RIVER Columbia RIVER MILE 261.0 BANK R QUAD. MAP Pendleton SEC 05 T 05N R 24E
 COL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE DATE
 C OF E PERMIT NO. DATE

WATFR RIGHT

WATER RESOURCE AREA APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE
 QUANTITY-CFS ACRE FT/YR PURPOSE Irrigation ACRES IRRIGATED
 OTHER Located on Crow Butte Island. PUD

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS ←+30ft LOCATION FROM PUMPS TO SCREENS ←+30ft TYPE OF STRUCTURE Pier
 NUMBER HP SIZE OF DISCHARGE TYPE OF DISCHARGE REMARKS
 OF PUMPS EACH (INCHES) DISCHARGE
 1 75 6

FISH SCREEN

PUMP NO.
 SCREEN DESCRIPTION
 TYPE OF SCREEN Johnson wedge wire SCREEN CODE Cy2 DISTANCE FROM SHORELINE 30ft SHORE DIST. CODE ←
 SUBMERGENCE 2ft TYPE OF MESH MATERIAL Stainless MESH SIZE 0.06in WIRE SIZE 0.125in PERFORATION SIZE
 HOLES/INCH WIDTH OR DIAMETER OF SCREEN 3ft d HEIGHT OR LENGTH OF SCREEN 5ft3in
 SCREEN CONDITION TRASH RACK
 FRAME BAR SPACING TRASH FENCE
 MESH Excellent RELATION TO SCREEN
 SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION 10ft3in
 FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE 11/06/79 TIME 1200
 FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col261.5R
PUMP

NAME Mercer Ranches Inc.

ADDRESS P.O. Box 68, Prosser, WA 99350

PHONE

DIVERSION LOCATION

STATE WA COUNTY Benton

TOWN Whitcomb

RIVER Columbia RIVER MILE 261.5

BANK R QUAD.MAP Pendleton

SEC 06 T 04N R 24E

COL.R.STUDY REPT.NO. 32

SITE NO. JD-40

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO. 1507-24

DATE 07/09/68

WATER RIGHT

WATER RESOURCE AREA WA31

APPLICATION NO. 19292

PERMIT NO. 15180

CERTIFICATE NO.

PRIORITY DATE 10/13/65

PERMIT DATE 05/03/68

QUANTITY-CFS 60.5 ACRE FT/YR 12000 PURPOSE Irrigation

ACRES IRRIGATED 3000

OTHER

ACCESS ROUTE

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS +-30ft

LOCATION FROM PUMPS TO SCREENS +-8ft6in

TYPE OF STRUCTURE Vault

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
3	600	12	Pipe
1	1500	15	Pipe

REMARKS -8ft6in from pumps to screen

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 3 Panels

SCREEN CODE P1 DISTANCE FROM SHORELINE 38ft6in

SHORE DIST. CODE ++

SUBMERGENCE 3ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.188in WIRE SIZE 16

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6ft4in

HEIGHT OR LENGTH OF SCREEN 7ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING 1.5in TRASH FENCE

MESH Good

RELATION TO SCREEN 3ft

SEALS One inch on sides-top seal is good.

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 10ft6in

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 11/06/79

TIME 1400

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col264.0R

PUMP

NAME Three Wells Ranch

ADDRESS ,Pasco,WA 99302

PHONE

DIVERSION LOCATION

STATE WA COUNTY Benton

TOWN

RIVER Columbia RIVER MILE 264.0

BANK R QUAD.MAP Pendleton

SEC 33 T 05N R 24E

COL.R.STUDY REPT.NO. 32

SITE NO. JD-106

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO. P-70-59-73-09

DATE 04/10/73

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS ++35ft

LOCATION FROM PUMPS TO SCREENS +

TYPE OF STRUCTURE Cement pier

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
8	1500	16	Pipe
2	1000	16	Pipe

REMARKS 2 panels of screen torn. Oil all over ground around pump station. Room for 2 more pumps.

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 10 Panels

SCREEN CODE P1 DISTANCE FROM SHORELINE

SHORE DIST. CODE ++

SUBMERGENCE 15ft TYPE OF MESH MATERIAL Monofilament

MESH SIZE 0.125in WIRE SIZE 18

PERFORATION SIZE

HOLES/INCH 7 WIDTH OR DIAMETER OF SCREEN 7ft

HEIGHT OR LENGTH OF SCREEN 17ft3in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING TRASH FENCE Cyclone

MESH 1-Good 2-Torn 3-Torn 4-10-Good

RELATION TO SCREEN Cyclone fence has fallen

SEALS Lose around all of the panels

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 11/02/79

TIME 1330

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col266.3R
PUMP
NAME US Fish and Wildlife Svc. ADDRESS P.O. Box 239,Umatilla,OR 97882 PHONE
DIVERSION LOCATION
STATE WA COUNTY Benton TOWN Paterson RIVER Columbia RIVER MILE 266.3 BANK R QUAD.MAP Pendleton SEC 01 T 04N R 24E
CCL.R.STUDY REPT.NO. 32 SITE NO. JO-48 C OF E PUB. NOTICE DATE
C OF E PERMIT NO. 071-DVA-2-002488 DATE 07/20/77

WATER RIGHT
WATER RESOURCE AREA WA31 APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE 02/23/73
QUANTITY-CFS 11.0 ACRE FT/YR 3455 PURPOSE Irrigation/Fish/Wildlife Propogation ACRES IRRIGATED 743
OTHER (Whitcomb Island propogation)
ACCESS ROUTE PLD
PLMP INFORMATION
LOCATION FROM SHORELINE TO PUMPS -275ft LOCATION FROM PUMPS TO SCREENS TYPE OF STRUCTURE Wooden
NUMBER HP SIZE OF DISCHARGE TYPE OF DISCHARGE REMARKS 4 75hp booster pumps Unable to locate intake.
OF PUMPS EACH (INCHES)
1 60
1 50 10 Pipe

FISH SCREEN
PUMP NO.
SCREEN DESCRIPTION
TYPE OF SCREEN Unable to locate SCREEN CODE U DISTANCE FROM SHORELINE SHORE DIST. CODE
SUBMERGENCE TYPE OF MESH MATERIAL MESH SIZE WIRE SIZE PERFORATION SIZE
HOLES/INCH WIDTH OR DIAMETER OF SCREEN HEIGHT OR LENGTH OF SCREEN
SCREEN CONDITION TRASH RACK
FRAME BAR SPACING TRASH FENCE
MESH RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT
SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE TIME
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col268.0R
PUMP
NAME Bildco Inc. ADDRESS ,, PHONE
DIVERSION LOCATION
STATE WA COUNTY Morrow TOWN Boardman RIVER Columbia RIVER MILE 268.0 BANK R QUAD.MAP Pendleton SEC 08 T 04N R 25E
CCL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE DATE
C OF E PERMIT NO. DATE

WATER RIGHT
WATER RESOURCE AREA DRO7 APPLICATION NO. 45476 PERMIT NO. 33937 CERTIFICATE NO. 44107 PRIORITY DATE
PERMIT DATE 10/16/68
QUANTITY-CFS 7 ACRE FT/YR 13.67 PURPOSE Irrigation ACRES IRRIGATED 576.8
OTHER
ACCESS ROUTE PLD
PLMP INFORMATION
LOCATION FROM SHORELINE TO PUMPS - Behind Interstate 80 LOCATION FROM PUMPS TO SCREENS - At site
NUMBER HP SIZE OF DISCHARGE TYPE OF DISCHARGE REMARKS Culverts unscreened
OF PUMPS EACH (INCHES)
2 200 Pipe

FISH SCREEN
PUMP NO.
SCREEN DESCRIPTION
TYPE OF SCREEN Stainless and Galvanized SCREEN CODE Cv DISTANCE FROM SHORELINE Pond SHORE DIST. CODE -
SUBMERGENCE TYPE OF MESH MATERIAL Wire MESH SIZE .125x.03 WIRE SIZE PERFORATION SIZE
HOLES/INCH 16 WIDTH OR DIAMETER OF SCREEN 5ft HEIGHT OR LENGTH OF SCREEN 5ft
SCREEN CONDITION TRASH RACK
FRAME BAR SPACING TRASH FENCE
MESH Good RELATION TO SCREEN
SEALS The stainless screen was not attached at top.

DEBRIS LOCATION AND AMOUNT
SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE 11/07/79 TIME 1100
FISH BYPASS SYSTEM FISH SPECIES SEEN Small fish seen behind screens.

INVENTORY NO. Co1270.7R

PUMP

NAME Tucker Farms Inc.

ADDRESS P.O. Box 398, Walla Walla, WA 99362

PHONE 509-875-2211

DIVERSION LOCATION

STATE WA COUNTY Benton

TOWN Paterson

RIVER Columbia RIVER MILE 270.7

BANK R QUAD.MAP Pendleton

SEC 22 T 05N R 25E

COL.R.STUDY REPT.NO. 32 SITE NO. JD-51

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO. 071-0YA-001-13B1

DATE 05/28/74

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Concrete Pier

LOCATION FROM SHORELINE TO PUMPS ++123ft

LOCATION FROM PUMPS TO SCREENS +

NUMBER

HP

SIZE OF

TYPE OF

REMARKS +123ft from shoreline down river to pumps.

OF PUMPS

EACH

DISCHARGE

DISCHARGE

1 1500 removed

5

1500

14

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 5 Rectangular boxes

SCREEN CODE P1

DISTANCE FROM SHORELINE 123ft

SHORE DIST. CODE ++

SUBMERGENCE 13ft TYPE OF MESH MATERIAL Stainless

MESH SIZE

0.125in WIRE SIZE 22

PERFORATION SIZE

HOLES/INCH 5 WIDTH OR DIAMETER OF SCREEN 4ftx5ft

HEIGHT OR

LENGTH OF SCREEN 17ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH All five intake screens were new.

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 11/06/79 TIME 1100

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Co1271.5R

PUMP

NAME Fred J. Milliman

ADDRESS ,Paterson, WA 99345

PHONE

DIVERSION LOCATION

STATE WA COUNTY Benton

TOWN

RIVER Columbia RIVER MILE 271.5

BANK R QUAD.MAP Pendleton

SEC 22 T 05N R 24E

COL.R.STUDY REPT.NO. 32 SITE NO. JD-50

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO. Letter

DATE 04/08/68

WATER RIGHT

WATER RESOURCE AREA WA31

APPLICATION NO. 19984

PERMIT NO. 14928

CERTIFICATE NO. 10947

PRIORITY DATE 11/23/66

QUANTITY-CFS

1.0 ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

50

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE

LOCATION FROM SHORELINE TO PUMPS

LOCATION FROM PUMPS TO SCREENS

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

1

50

4

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN None on the end of the pipe.

SCREEN CODE N

DISTANCE FROM SHORELINE 40ft

SHORE DIST. CODE +

SUBMERGENCE 4ft TYPE OF MESH MATERIAL None

MESH SIZE

WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 10in d

HEIGHT OR

LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH The old screen has rusted away.

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 11/06/79 TIME 1200

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col271.7LA

PUMP

NAME Eastern Oregon Farm. Co. Inc. ADDRESS P.O. Box A, Irrigon, OR 97844

PHONE 503-481-2811

DIVERSION LOCATION

STATE OR COUNTY Morrow TOWN Boardman RIVER Columbia RIVER MILE 271.7 BANK L QUAD.MAP Pendleton SEC 02 T 04N R 25E
COL.R.STUDY REPT.NO. 32 SITE NO. JD-51 C OF E PUB. NOTICE DATE
C OF E PERMIT NO. 071-OYA-1-001290 DATE 01/31/74

WATER RIGHT

WATER RESOURCE AREA DRO7 A APPLICATION NO. 50771 PERMIT NO. 36940 CERTIFICATE NO. 46345 PRIORITY DATE
PERMIT DATE 06/29/73

QUANTITY-CFS 322.3 ACRE FT/YR PURPOSE Irrigation ACRES IRRIGATED 14440

OTHER (Same permit as Sabre Corp.) Green caps on pumps upriver side of pump site. Water Rights Include A,B
ACCESS ROUTE PUD

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS ++107ft LOCATION FROM PUMPS TO SCREENS ++107ft TYPE OF STRUCTURE Pier

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE	REMARKS
3	250		Pipe	Mild Electrical Field
1	300		Pipe	Water Right B App# 55625 Perm Date 04/06/77
2	150		Pipe	Acres 2740 CFS 43.6 C of E Public Notice 01/31/74

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 6 Rectangular boxes SCREEN CODE P1 DISTANCE FROM SHORELINE SHORE DIST. CODE ++

SURMERGENCE TYPE OF MESH MATERIAL Monofilament MESH SIZE 0.125in WIRE SIZE 16 PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 5ft4in HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

FRAME Good

MESH Good

SEALS Good

TRASH RACK
BAR SPACING TRASH FENCE
RELATION TO SCREEN

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION First pump by shore SCOURING

FLOW READINGS

FISH BYPASS SYSTEM

AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F WATER ELEVATION
INSPECTION DATE 04/24/79 TIME 1400

FISH SPECIES SEEN

INVENTORY NO. Col271.7LB

PUMP

NAME Sabre Farms Inc.

ADDRESS P.O. Box 11, Boardman, OR 97818

PHONE 503-481-9454

DIVERSION LOCATION

STATE OR COUNTY Morrow TOWN Boardman RIVER Columbia RIVER MILE 271.7 BANK L QUAD.MAP Pendleton SEC 02 T 04N R 25E
COL.R.STUDY REPT.NO. 32 SITE NO. JD-51 C OF E PUB. NOTICE DATE
C OF E PERMIT NO. 071-OYA-1-001290 DATE 01/31/74

WATER RIGHT

WATER RESOURCE AREA DRO7 A APPLICATION NO. 50951 PERMIT NO. 37150 CERTIFICATE NO. PRIORITY DATE
PERMIT DATE 07/25/73

QUANTITY-CFS 358 ACRE FT/YR PURPOSE Irrigation Same Permit as Eastern Oregon Farms. ACRES IRRIGATED 16039

OTHER Water Rights Include A,B. James R. Jordan General Mgr. Yellow cap on pumps down river side of pump Sta.

ACCESS ROUTE PUD

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS ++107ft LOCATION FROM PUMPS TO SCREENS ++107ft TYPE OF STRUCTURE Pier

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE	REMARKS
6	500		Pipe	Yellow pumps. Water Right B App# 51960 Perm# 37416 Perm Date 05/07/74 Acres 360 CFS 11.69 Mild Electrical Field

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 6 Rectangular boxes SCREEN CODE P1 DISTANCE FROM SHORELINE SHORE DIST. CODE ++

SURMERGENCE TYPE OF MESH MATERIAL Monofilament MESH SIZE 0.125in WIRE SIZE 16 PERFORATION SIZE

HOLES/INCH 6 WIDTH OR DIAMETER OF SCREEN 5ft4in HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

FRAME Good

MESH Good

SEALS Good

TRASH RACK
BAR SPACING TRASH FENCE
RELATION TO SCREEN

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION 2 pumps near shore SCOURING

FLOW READINGS

FISH BYPASS SYSTEM

AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F WATER ELEVATION
INSPECTION DATE 04/24/79 TIME 1400

FISH SPECIES SEEN

INVENTORY NO. Col275.4R

PUMP

NAME Columbia River Farms

ADDRESS ,Paterson,WA 99345

PHONE

DIVERSION LOCATION

STATE WA COUNTY Benton TOWN

RIVER Columbia RIVER MILE 275.4 BANK R QUAD.MAP Pendleton

SEC 18 T 05N R 26E

COL.R.STUDY REPT.NO. 32 SITE NO. JD-55

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO. 071-OYA-1-001328

DATE 03/21/74

WATER RIGHT

WATER RESOURCE AREA WA31 A APPLICATION NO. 19819 PERMIT NO. 14583 CERTIFICATE NO.

PRIORITY DATE 11/11/66

PERMIT DATE 01/26/67

QUANTITY-CFS 66.8 ACRE FT/YR 13200 PURPOSE Irrigation

ACRES IRRIGATED 3300

OTHER Same pump station as Paterson Irrigation.Water Rights Include A,B.

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE

LOCATION FROM SHORELINE TO PUMPS

LOCATION FROM PUMPS TO SCREENS

NUMBER HP SIZE OF

TYPE OF

REMARKS Water Right B App# 20411 Perm# 15402 Prior Date

OF PUMPS EACH DISCHARGE

DISCHARGE

07/28/67 Perm Date 01/19/68 Acres 10100 CFS 202

(INCHES)

AC/FT 40400

0

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Same as Paterson Irrigation

SCREEN CODE

DISTANCE FROM SHORELINE

SHORE DIST. CODE

SUBMERGENCE TYPE OF MESH MATERIAL

MESH SIZE

WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col275.5R

PUMP

NAME Pat. Irrig. Proj. Landownrs

ADDRESS 2512 Second Avenue,Seattle,WA 98121

PHONE

DIVERSION LOCATION

STATE WA COUNTY Benton TOWN Paterson

RIVER Columbia RIVER MILE 275.5 BANK R QUAD.MAP Pendleton

SEC 22 T 05N R 25E

COL.R.STUDY REPT.NO. 32 SITE NO. JD-56

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO. Letter

DATE 05/09/67

WATER RIGHT

WATER RESOURCE AREA WA31 APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE 04/22/77

QUANTITY-CFS 379 ACRE FT/YR 0 PURPOSE Irrigation

ACRES IRRIGATED 23069

OTHER Horizontal basket screens

PUD

ACCESS ROUTE

TYPE OF STRUCTURE Concrete

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS +/-

LOCATION FROM PUMPS TO SCREENS +/-

NUMBER HP SIZE OF

TYPE OF

REMARKS 4 1500 16inch pipe Room for 2 more pumps

OF PUMPS EACH DISCHARGE

DISCHARGE

11 large baskets; 2 small baskets; 2 screen pipes

(INCHES)

(15 panels on top of the baskets) are removable

6 700 16

Pipe

1 800 16

Pipe

5 1000 16

Pipe

2 250 10

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 15 Panel screens

SCREEN CODE P1 DISTANCE FROM SHORELINE

SHORE DIST. CODE +

SUBMERGENCE TYPE OF MESH MATERIAL Wire

MESH SIZE .25x.125 WIRE SIZE 14

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME Good

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS Good

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 11ft4in

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 04/26/79

TIME 1125

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col275.BR

PUMP

NAME Lorin Munn ADDRESS Route 2 Box 414, Nyssa, OR 97913 PHONE 503-786-1013
DIVERSION LOCATION
STATE WA COUNTY Benton TOWN RIVER Columbia RIVER MILE 275.8 BANK R QUAD.MAP Pendleton SEC 18 T 05N R 26E
COL.R.STUDY REPT.NO. 32 SITE NO. JD-55 C OF E PUB. NOTICE DATE
C OF E PERMIT NO. 071-0YA-1-002039 DATE 06/01/76

WATER RIGHT

WATER RESOURCE AREA WA31 APPLICATION NO. PERMIT NO. Term CERTIFICATE NO. PRIORITY DATE 10/15/75
PERMIT DATE 01/29/76

QUANTITY-CFS 154.15 ACRE FT/YR 36662 PURPOSE Irrigation ACRES IRRIGATED 9200

OTHER

ACCESS ROUTE PLD
PUMP INFORMATION TYPE OF STRUCTURE

LOCATION FROM SHORELINE TO PUMPS LOCATION FROM PUMPS TO SCREENS

Table with 4 columns: NUMBER OF PUMPS, HP EACH, SIZE OF DISCHARGE (INCHES), TYPE OF DISCHARGE. Row 1: 7, 2000, 24, Pipe

FISH SCREEN

PUMP NO.
SCREEN DESCRIPTION
TYPE OF SCREEN 12 Wedge wire screens SCREEN CODE Cy3 DISTANCE FROM SHORELINE 1827ft SHORE DIST. CODE +
SUBMERGENCE TYPE OF MESH MATERIAL MESH SIZE 0.14in WIRE SIZE PERFORATION SIZE
HOLES/INCH WIDTH OR DIAMETER OF SCREEN 1ft d HEIGHT OR LENGTH OF SCREEN 11ft
SCREEN CONDITION TRASH RACK
FRAME BAR SPACING TRASH FENCE
MESH Excellent RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE TIME
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col279.8L

PUMP

NAME George R. Creer ADDRESS 704 W. 26th, Kennewick, WA 99336 PHONE
DIVERSION LOCATION
STATE OR COUNTY Morrow TOWN RIVER Columbia RIVER MILE 279.8 BANK L QUAD.MAP Pendleton SEC 23 T 05N R 26E
COL.R.STUDY REPT.NO. 32 SITE NO. JD-64 C OF E PUB. NOTICE DATE
C OF E PERMIT NO. Letter DATE 04/18/68

WATER RIGHT

WATER RESOURCE AREA OR07 APPLICATION NO. 43956 PERMIT NO. 32309 CERTIFICATE NO. PRIORITY DATE
PERMIT DATE 08/15/67

QUANTITY-CFS 50.5 ACRE FT/YR PURPOSE ACRES IRRIGATED 2144

OTHER

ACCESS ROUTE PLD
PUMP INFORMATION TYPE OF STRUCTURE Vault

LOCATION FROM SHORELINE TO PUMPS ++46ft LOCATION FROM PUMPS TO SCREENS ++

Table with 4 columns: NUMBER OF PUMPS, HP EACH, SIZE OF DISCHARGE (INCHES), TYPE OF DISCHARGE. Row 1: 2, 100, 12, Pipe; Row 2: 1, 300, 14, Pipe

FISH SCREEN

PUMP NO.
SCREEN DESCRIPTION
TYPE OF SCREEN 3 Panels SCREEN CODE P1 DISTANCE FROM SHORELINE 4ft SHORE DIST. CODE ++
SUBMERGENCE -1ft TYPE OF MESH MATERIAL Expand metal MESH SIZE 0.25X1in WIRE SIZE 12 PERFORATION SIZE
HOLES/INCH WIDTH OR DIAMETER OF SCREEN 7ft HEIGHT OR LENGTH OF SCREEN 10ft
SCREEN CONDITION TRASH RACK
FRAME New BAR SPACING TRASH FENCE
MESH New RELATION TO SCREEN
SEALS Small gaps along cement wall where screen slides down.

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE TIME 1200
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col283.0R
PUMP

NAME Prior Land Company
DIVERSION LOCATION
STATE WA COUNTY Benton TOWN Paterson RIVER Columbia RIVER MILE 283.0 BANK R QUAD.MAP Pendleton SEC 18 T 05N R 27E
COL.R.STUDY REPT.NO. 32 SITE NO. JD-67 C OF E PUB. NOTICE DATE
C OF E PERMIT NO. 071-OYA-1-001412 DATE 07/10/74

ADDRESS P.O. Box 2303, Pasco, WA 99302

PHONE 509-783-5417

WATER RIGHT
WATER RESOURCE AREA WA31 A APPLICATION NO. 19621 PERMIT NO. 16638 CERTIFICATE NO. PRIORITY DATE 04/25/66
PERMIT DATE 09/20/71 ACRES IRRIGATED 1000

QUANTITY-CFS 20.0 ACRE FT/YR 4283 PURPOSE Irrigation
OTHER Water Rights Include A,B,C,D

ACCESS ROUTE PLD
PUMP INFORMATION TYPE OF STRUCTURE Concrete

LOCATION FROM SHORELINE TO PUMPS ++70ft				LOCATION FROM PUMPS TO SCREENS ++70ft	
NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE	REMARKS	
7	1500	20	Pipe	Water Rights A,B,B,D App# 19622;22852C;22852A Perm #16639;16571C;16571A Prior Date 04/25/66;02/71;02/04/71 Perm Date 07/08/71;07/08/71 Acres 6500;42345; CFS 130; 944; 944 AC/FT 27842; 18137; 18137	
5	1000	16	Pipe		
2	250	16	Pipe		
3	500	16	Pipe		

FISH SCREEN
PUMP NO.
SCREEN DESCRIPTION
TYPE OF SCREEN 17 Johnson wedge wire screens SCREEN CODE Cy4 DISTANCE FROM SHORELINE SHORE DIST. CODE ++
SUBMERGENCE TYPE OF MESH MATERIAL Stainless MESH SIZE 0.03in WIRE SIZE 130 PERFORATION SIZE
HOLES/INCH WIDTH OR DIAMETER OF SCREEN 3ft6in d HEIGHT OR LENGTH OF SCREEN 8ft
SCREEN CONDITION TRASH RACK
FRAME Starting to rust were screens connect to pipe. BAR SPACING 1.5x3" TRASH FENCE
MESH Good RELATION TO SCREEN In front of pump station.
SEALS Good

DEBRIS LOCATION AND AMOUNT
SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION 4ft2in
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE 10/24/79 TIME 1400
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col285.4L
PUMP

NAME Howard Stone
DIVERSION LOCATION
STATE OR COUNTY Umatilla TOWN Umatilla RIVER Columbia RIVER MILE 285.4 BANK L QUAD.MAP Pendleton SEC 15 T 05N R 27E
COL.R.STUDY REPT.NO. 32 SITE NO. JD-68 C OF E PUB. NOTICE DATE
C OF E PERMIT NO. 071-OYA-1-001781 DATE 06/24/75

ADDRESS P.O. Box 1097, Walla Walla, WA 99362

PHONE

WATER RIGHT
WATER RESOURCE AREA DR07 APPLICATION NO. 52764 PERMIT NO. 37775 CERTIFICATE NO. PRIORITY DATE
PERMIT DATE 02/04/75 ACRES IRRIGATED 1288

QUANTITY-CFS 25.87 ACRE FT/YR PURPOSE Irrigation

ACCESS ROUTE PUD
PUMP INFORMATION TYPE OF STRUCTURE

LOCATION FROM SHORELINE TO PUMPS -165ft				LOCATION FROM PUMPS TO SCREENS	
NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE	REMARKS	
4	200	8			

FISH SCREEN
PUMP NO.
SCREEN DESCRIPTION
TYPE OF SCREEN Cylinder SCREEN CODE Cy2 DISTANCE FROM SHORELINE 280ft SHORE DIST. CODE +
SUBMERGENCE 9ft TYPE OF MESH MATERIAL Aluminum MESH SIZE 0.188in WIRE SIZE PERFORATION SIZE
HOLES/INCH WIDTH OR DIAMETER OF SCREEN 4ft d HEIGHT OR LENGTH OF SCREEN 8ft
SCREEN CONDITION TRASH RACK
FRAME BAR SPACING 1.5in TRASH FENCE
MESH Good RELATION TO SCREEN One foot on three sides.
SEALS

DEBRIS LOCATION AND AMOUNT
SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE 11/01/79 TIME 1345
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col292.1L

PUMP

NAME McNary Golf Club ADDRESS P.O. Box 173, McNary, OR 97858 PHONE
DIVERSION LOCATION
STATE OR COUNTY Umatilla TOWN McNary RIVER Columbia RIVER MILE 292.1 BANK L QUAD.MAP Pendleton SEC 11 T OSN R 28E
COL.R.STUDY REPT.NO. 33 SITE NO. MC-1 C OF E PUB. NOTICE Letter of Perm. DATE
C OF E PERMIT NO. DATE 02/19/68

WATER RIGHT
WATER RESOURCE AREA APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE
QUANTITY-CFS ACRE FT/YR PURPOSE Irrigation ACRES IRRIGATED
OTHER
ACCESS ROUTE Next to pier by McNary dam. PLD
PUMP INFORMATION TYPE OF STRUCTURE Tower pier
LOCATION FROM SHORELINE TO PUMPS +-151ft LOCATION FROM PUMPS TO SCREENS +-151ft
NUMBER HP SIZE OF TYPE OF REMARKS Screens go down on all four sides.
OF PUMPS EACH DISCHARGE DISCHARGE
1 50 6 Pipe

FISH SCREEN

PUMP NO.
SCREEN DESCRIPTION
TYPE OF SCREEN Rectangular basket SCREEN CODE P1 DISTANCE FROM SHORELINE 15ft SHORE DIST. CODE +-
SUBMERGENCE 1ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.125in WIRE SIZE 11 PERFORATION SIZE
HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2ft1in HEIGHT OR LENGTH OF SCREEN 5ft7.5in
SCREEN CONDITION TRASH RACK
FRAME BAR SPACING TRASH FENCE
MESH Rusted-3ft of area is unscreened; 14' Screened RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION 5ft9in
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE 10/30/79 TIME 1300
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col287.4L

PUMP

NAME Miracle Potato ADDRESS Box 456, Irrigon, OR 97882 PHONE
DIVERSION LOCATION
STATE OR COUNTY Umatilla TOWN Umatilla RIVER Columbia RIVER MILE 287.4 BANK L QUAD.MAP Pendleton SEC 35 T OSN R 25E
COL.R.STUDY REPT.NO. 32 SITE NO. JD-69-5 C OF E PUB. NOTICE DATE
C OF E PERMIT NO. 071-0YA-1-000049 DATE 01/21/75

WATER RIGHT
WATER RESOURCE AREA DR07 APPLICATION NO. 48822 PERMIT NO. 35695 CERTIFICATE NO. PRIORITY DATE
QUANTITY-CFS 42.32 ACRE FT/YR 0 PURPOSE Irrigation ACRES IRRIGATED 359
OTHER (Rebuild and update existing structure)
ACCESS ROUTE PLD
PUMP INFORMATION TYPE OF STRUCTURE Concrete
LOCATION FROM SHORELINE TO PUMPS -79ft LOCATION FROM PUMPS TO SCREENS
NUMBER HP SIZE OF TYPE OF REMARKS 79ft from shoreline into pumps
OF PUMPS EACH DISCHARGE DISCHARGE Water Rights include App# 48821 Perm# 35694
5 600 12 Pipe CFS 140.2 Acres 4163.2
1 700 13 Pipe

FISH SCREEN

PUMP NO.
SCREEN DESCRIPTION
TYPE OF SCREEN 2 Screens connected by pipe SCREEN CODE Cy2 DISTANCE FROM SHORELINE 180ft SHORE DIST. CODE +
SUBMERGENCE 8ft TYPE OF MESH MATERIAL Aluminum MESH SIZE 0.125in WIRE SIZE 10 PERFORATION SIZE 0.125
HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2ft d HEIGHT OR LENGTH OF SCREEN 10ft&3ft
SCREEN CONDITION TRASH RACK
FRAME BAR SPACING TRASH FENCE
MESH Good RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE 11/01/79 TIME 1330
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col295.OL

PUMP

NAME Conforth Rogers

ADDRESS Rt. 3 Box 310A, Hermiston, OR 97838

PHONE

DIVERSION LOCATION

STATE OR COUNTY Umatilla TOWN

RIVER Columbia RIVER MILE 295.0 BANK L QUAD.MAP Pendleton SEC 07 T 05N R 29E

CDL.R.STUDY REPT.NO. 33 SITE NO. MC-5.5

C OF E PUB. NOTICE NPWB00.6 CRMisc.

DATE 03/17/53

C OF E PERMIT NO.

DATE 03/13/75

WATER RIGHT

WATER RESOURCE AREA 007 APPLICATION NO. 28191 PERMIT NO. 22091 CERTIFICATE NO. 37478 PRIORITY DATE

PERMIT DATE 03/13/53

QUANTITY-CFS 7.8 ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED 880.4

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Concrete

LOCATION FROM SHORELINE TO PUMPS +-

LOCATION FROM PUMPS TO SCREENS +-8

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
2	150	6.5	Pipe
1	350	14	Pipe

REMARKS

FISH SCREEN

PUMP NO. 1

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 8ft

SHORE DIST. CODE ++

SUBMERGENCE 5ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.125in WIRE SIZE 8

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2ft d

HEIGHT OR LENGTH OF SCREEN 3ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 8ft7in

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 10/30/79 TIME 0945

FISH BYPASS SYSTEM

FISH SPECIES SEEN

FISH SCREEN

PUMP NO. 2

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 1ft

SHORE DIST. CODE ++

SUBMERGENCE 4ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.026in WIRE SIZE 2

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2ft7in d

HEIGHT OR LENGTH OF SCREEN 1ft5in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 10/30/79 TIME 0945

FISH BYPASS SYSTEM

FISH SPECIES SEEN

FISH SCREEN

PUMP NO. 3

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 7ft6in

SHORE DIST. CODE ++

SUBMERGENCE 4ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.125in WIRE SIZE 8

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2ft d

HEIGHT OR LENGTH OF SCREEN 3ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 10/30/79 TIME 0945

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col299.0R

PUMP

NAME Charlie Cox

ADDRESS P.O. Box 849, Pasco, WA 99302

PHONE

DIVERSION LOCATION

STATE WA COUNTY Benton TOWN

RIVER Columbia RIVER MILE 299.0 BANK R QUAD. MAP Pendleton SEC 02 T 05N R 29E

COL.R.STUDY REPT.NO. 33 SITE NO. MC6.5

C OF E PUB. NOTICE 071-DYC-2-000324

DATE 07/20/76

C OF E PERMIT NO. 071-DYC-2-000324-76

DATE 02/23/77

WATER RIGHT

WATER RESOURCE AREA WA31 APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE 02/25/74

PERMIT DATE 07/22/74

QUANTITY-CFS 55.1 ACRE FT/YR 8862 PURPOSE Irrigation

ACRES IRRIGATED 2755

OTHER

ACCESS ROUTE

PLD

PUMP INFORMATION

TYPE OF STRUCTURE Concrete

LOCATION FROM SHORELINE TO PUMPS -Culvert Berm

LOCATION FROM PUMPS TO SCREENS Clvrt/deck

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
5	1000	12	Pipe

REMARKS Screens at end of culvert & below front of pump deck.

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN None (2 Culverts)

SCREEN CODE Cv DISTANCE FROM SHORELINE 24ft

SHORE DIST. CODE +

SUBMERGENCE 5ft TYPE OF MESH MATERIAL

MESH SIZE WIRE SIZE PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2ft5in d HEIGHT OR

LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING 1in TRASH FENCE

MESH

RELATION TO SCREEN Dn end of culvert 1"x4"

SEALS

DEBRIS LOCATION AND AMOUNT

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

SEDIMENTATION

AMBIENT STREAM VELOCITY

INSPECTION DATE 10/30/79 TIME 1100

FLOW READINGS

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col301.0L

PUMP

NAME Dr & Mrs Robert Bradshaw

ADDRESS 3820 Riverhaven Drive, Pasco, WA 99301

PHONE

DIVERSION LOCATION

STATE OR COUNTY Umatilla TOWN

RIVER Columbia RIVER MILE 301.0 BANK L QUAD. MAP Pendleton

SEC 07 T 05N R 30E

COL.R.STUDY REPT.NO. 33 SITE NO. MC-105

C OF E PUB. NOTICE 071-DYC-1-000162

DATE 04/13/72

C OF E PERMIT NO. 071-DYC-000162-73-07

DATE 02/28/75

WATER RIGHT

WATER RESOURCE AREA DR07 A APPLICATION NO. 49061

PERMIT NO. 36169

CERTIFICATE NO. 44905

PRIORITY DATE

PERMIT DATE 03/13/72

QUANTITY-CFS 21.33 ACRE FT/YR PURPOSE Irrigation

ACRES IRRIGATED 1144

OTHER There is a new owner. Water Rights Include A,B

ACCESS ROUTE

PLD

PUMP INFORMATION

TYPE OF STRUCTURE Concrete

LOCATION FROM SHORELINE TO PUMPS ++67ft

LOCATION FROM PUMPS TO SCREENS ++67ft

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
2	900	18	Pipe
1	250	13	Pipe

REMARKS Water Right B App# 51115 Perm# 36941 Perm Date 08/22/73 Acres 60 CFS 1 (New Owner Unknown)

FISH SCREEN

PUMP NO. 1-2

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy1 DISTANCE FROM SHORELINE 67ft

SHORE DIST. CODE ++

SUBMERGENCE 9ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.125in WIRE SIZE 14 PERFORATION SIZE

HOLES/INCH 4 WIDTH OR DIAMETER OF SCREEN 2ft6in d HEIGHT OR

LENGTH OF SCREEN 4ft

SCREEN CONDITION

TRASH RACK

FRAME MESH Bottom edge on pump #2 has a 3inX3in gap.

BAR SPACING TRASH FENCE

SEALS

RELATION TO SCREEN

DEBRIS LOCATION AND AMOUNT

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

SEDIMENTATION

AMBIENT STREAM VELOCITY

INSPECTION DATE 10/26/79 TIME 1300

FLOW READINGS

FISH BYPASS SYSTEM

FISH SPECIES SEEN

FISH SCREEN

PUMP NO. 3

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy1 DISTANCE FROM SHORELINE 67ft

SHORE DIST. CODE ++

SUBMERGENCE 9ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.125in WIRE SIZE 14 PERFORATION SIZE

HOLES/INCH 4 WIDTH OR DIAMETER OF SCREEN 2ft6in d HEIGHT OR

LENGTH OF SCREEN 3ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

SEDIMENTATION

AMBIENT STREAM VELOCITY

INSPECTION DATE 10/26/79 TIME 1300

FLOW READINGS

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col301.5R

PUMP

NAME Irrigro Limited Partnership ADDRESS Box 2176, Pasco, WA 99302

PHONE

DIVERSION LOCATION

STATE WA COUNTY Benton TOWN RIVER Columbia RIVER MILE 301.5 BANK R QUAD. MAP Pendleton SEC 06 T 05N R 30E

COL.R.STUDY REPT.NO. 33 SITE NO. MC-9 C OF E PUB. NOTICE 71-026 DATE 08/27/71

C OF E PERMIT NO. NPW 71-026-72-5 DATE 01/24/72

WATER RIGHT

WATER RESOURCE AREA WA31 A APPLICATION NO. 23312 PERMIT NO. CERTIFICATE NO. PRIORITY DATE 08/16/71

QUANTITY-CFS 10.2 ACRE FT/YR 2114 PURPOSE Irrigation ACRES IRRIGATED 507

OTHER Water Rights Include A,B,C,D Permit shows a culvert under railroad berm.

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Concrete

LOCATION FROM SHORELINE TO PUMPS Behind Railroad Berm

LOCATION FROM PUMPS TO SCREENS Culverts

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE	REMARKS
2	700	12		2 500 12 2 1000 14 Water Rights B,C,D App# 23313; railroad. Perm Dates 01/02/73; 01/02/73; 12/22/74 Acres 1864; 1383; 680 CFS 37.4; 27.8; 13.66 AC/FT 7772; 5766; 3564
1	900	14		
1	300	10		
1	600	12		

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Unable to locate culvert

SCREEN CODE U DISTANCE FROM SHORELINE

SHORE DIST. CODE

SUBMERGENCE TYPE OF MESH MATERIAL

MESH SIZE WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col301.7LA

PUMP

NAME Tom Kosmos ADDRESS Holdman Route, Pendleton, OR 97801

PHONE

DIVERSION LOCATION

STATE OR COUNTY Umatilla TOWN Hermiston RIVER Columbia RIVER MILE 301.7 BANK L QUAD. MAP Pendleton SEC 08 T 05N R 30E

COL.R.STUDY REPT.NO. 33 SITE NO. MC-9.4 C OF E PUB. NOTICE PN NPW 71-027 DATE

C OF E PERMIT NO. 71-027-72-3 DATE 01/18/72

WATER RIGHT

WATER RESOURCE AREA OR07 APPLICATION NO. 47423 PERMIT NO. 35522 CERTIFICATE NO. PRIORITY DATE

QUANTITY-CFS 41.8 ACRE FT/YR PURPOSE Irrigation ACRES IRRIGATED 1763

OTHER

PUD

ACCESS ROUTE

PUMP INFORMATION

TYPE OF STRUCTURE Pier

LOCATION FROM SHORELINE TO PUMPS ++

LOCATION FROM PUMPS TO SCREENS ++

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE	REMARKS
7	800	14	Pipe	Dne pump out. Mild Electrical Field

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 7 Cylinder

SCREEN CODE Cy2 DISTANCE FROM SHORELINE

SHORE DIST. CODE ++

SUBMERGENCE TYPE OF MESH MATERIAL Monofilament

MESH SIZE 0.125in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2ft9in d

HEIGHT OR LENGTH OF SCREEN 8ft2in

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

MESH New

RELATION TO SCREEN

SEALS Good

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col301.7LB

PUMP

NAME Mikami Brothers

ADDRESS Route 5 Box 367, Idaho Falls, ID 83401

PHONE

DIVERSION LOCATION

STATE OR COUNTY Umatilla TOWN

RIVER Columbia RIVER MILE 301.7 BANK L QUAD.MAP Pendleton SEC 07 T 05N R 30E

COL.R.STUDY REPT.NO. 33 SITE NO. MC-9.4

C OF E PUB. NOTICE 071-DYC-1-000213

DATE 10/05/73

C OF E PERMIT NO. 071-DYC-1-000213-74-3

DATE 03/08/74

WATER RIGHT

WATER RESOURCE AREA DR07 APPLICATION NO. 51288

PERMIT NO. 37121 CERTIFICATE NO.

PRIORITY DATE

PERMIT DATE 10/03/73

QUANTITY-CFS 91.4 ACRE FT/YR

PURPOSE

ACRES IRRIGATED 4906

OTHER Permit Date filed 10/03/73

ACCESS ROUTE

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS +-50ft

TYPE OF STRUCTURE Pier

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
10	1000	16	Pipe
1	500	16	Pipe
1	100	16	Pipe

LOCATION FROM PUMPS TO SCREENS +-50ft
REMARKS Mild Electrical Field

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Rectangular baskets

SCREEN CODE P1

DISTANCE FROM SHORELINE 50ft

SHORE DIST. CODE ++

SUBMERGENCE TYPE OF MESH MATERIAL Wire

MESH SIZE 0.125in

WIRE SIZE 18

PERFORATION SIZE

HOLES/INCH 5 WIDTH OR DIAMETER OF SCREEN 3ft8in

HEIGHT OR LENGTH OF SCREEN 20ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 04/11/79

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col301.7LC

PUMP

NAME Royale Columbia Farms

ADDRESS E. Walls Rd., Hermiston, OR 97838

PHONE 503-567-8263

DIVERSION LOCATION

STATE OR COUNTY Umatilla TOWN Hat Rock

RIVER Columbia RIVER MILE 301.7 BANK L QUAD.MAP Pendleton

SEC 07 T 05N R 30E

COL.R.STUDY REPT.NO. 33 SITE NO. MC-94

C OF E PUB. NOTICE 071-DYC-1-000211

DATE 03/04/73

C OF E PERMIT NO. 071-DYC-1-000211-74-2

DATE 03/08/74

WATER RIGHT

WATER RESOURCE AREA DR07 APPLICATION NO. 5115

PERMIT NO. 36941 CERTIFICATE NO.

PRIORITY DATE

PERMIT DATE 08/22/73

QUANTITY-CFS 1.14 ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED 60

OTHER

ACCESS ROUTE

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS +-76ft

TYPE OF STRUCTURE Pier

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
3	800	18	Pipe
1	400	18	Pipe

LOCATION FROM PUMPS TO SCREENS +-76ft
REMARKS One pump was missing at the time of inspection.
Mild Electrical Field

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 5 Rectangular baskets

SCREEN CODE P1

DISTANCE FROM SHORELINE

SHORE DIST. CODE ++

SUBMERGENCE TYPE OF MESH MATERIAL Monofilament

MESH SIZE 0.125in

WIRE SIZE

PERFORATION SIZE

HOLES/INCH 5 WIDTH OR DIAMETER OF SCREEN 3ft5in

HEIGHT OR LENGTH OF SCREEN 20ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH New

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION 8in up from bottom

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 5ft7in

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 04/11/79

TIME 1022

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. C01304.5L

PUMP

NAME (Unknown) New Owner

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Whatcom TOWN Met Rock RIVER Columbia RIVER MILE 304.5 BANK L (QUAD.MAP Pendleton SEC 34 T 05N R 30E

CCL.N.STUDY REPT.NO. SITE NO.

C OF E P.L.P. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA DR07 A APPLICATION NO. 45719 PERMIT NO. 33554 CERTIFICATE NO. 37974 PRIORITY DATE

PERMIT DATE 01/23/69

QUANTITY-CFS

5.9 ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED 236

OTHER Water Rights Include A,B,C.

PLD

ACCESS ROUTE

TYPE OF STRUCTURE Pier I-Beams

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS +/-65ft

LOCATION FROM PUMPS TO SCREENS +/-65ft

NUMBER OF PUMPS

FP EACH

SIZE OF DISCHARGE (INCHES)

TYPE OF DISCHARGE

REMARKS Water Rights A,B,C App# 45934;40223 Perms 34254; 30000 Cert# 37975;36803 Perm Date 04/14/69; 09/28/64 Acres 902;800 CFS 14.9;17.8

5

500

12

Pipe

1

250

12

Pipe

FISH SCREEN

PUMP NO. 1

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy1

DISTANCE FROM SHORELINE

SHORE DIST. CODE **

SUBMERGENCE 9ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.06in WIRE SIZE 16

PERFORATION SIZE

HOLES/INCH 5 WIDTH OR DIAMETER OF SCREEN 2ft6in d HEIGHT OR LENGTH OF SCREEN 2ft5in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE Cyclone

MESH Good

RELATION TO SCREEN

Around station

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

FISH SPECIES SEEN

INSPECTION DATE 10/26/79 TIME 1430

FISH BYPASS SYSTEM

FISH SCREEN

PUMP NO. 2

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy1

DISTANCE FROM SHORELINE

SHORE DIST. CODE **

SUBMERGENCE 9ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.125in WIRE SIZE 12

PERFORATION SIZE

HOLES/INCH 4 WIDTH OR DIAMETER OF SCREEN 2ft6in d HEIGHT OR LENGTH OF SCREEN 2ft1in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Collapsed, sucked in, pulled away from the bottom.

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

FISH SPECIES SEEN

INSPECTION DATE 10/26/79 TIME 1430

FISH BYPASS SYSTEM

FISH SCREEN

PUMP NO. 3

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy1

DISTANCE FROM SHORELINE

SHORE DIST. CODE **

SUBMERGENCE 5ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.125in WIRE SIZE 14

PERFORATION SIZE

HOLES/INCH 4 WIDTH OR DIAMETER OF SCREEN 2ft6in d HEIGHT OR LENGTH OF SCREEN 2ft1in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH New

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

FISH SPECIES SEEN

INSPECTION DATE 10/26/79 TIME 1430

FISH BYPASS SYSTEM

FISH SCREEN

PUMP NO. 4

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy1

DISTANCE FROM SHORELINE

SHORE DIST. CODE **

SUBMERGENCE 5ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.125in WIRE SIZE 12

PERFORATION SIZE

HOLES/INCH 5 WIDTH OR DIAMETER OF SCREEN 2ft1in d HEIGHT OR LENGTH OF SCREEN 2ft5in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

FISH SPECIES SEEN

INSPECTION DATE 10/26/79 TIME 1430

FISH BYPASS SYSTEM

FISH SCREEN

PUMP NO. 5

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy1

DISTANCE FROM SHORELINE

SHORE DIST. CODE **

SUBMERGENCE 5ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.125in WIRE SIZE 12

PERFORATION SIZE

HOLES/INCH 4 WIDTH OR DIAMETER OF SCREEN 2ft6in d HEIGHT OR LENGTH OF SCREEN 2ft6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

FISH SPECIES SEEN

INSPECTION DATE 10/26/79 TIME 1430

FISH BYPASS SYSTEM

FISH SCREEN

PUMP NO. 6

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy1

DISTANCE FROM SHORELINE

SHORE DIST. CODE **

SUBMERGENCE 5ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.125in WIRE SIZE 12

PERFORATION SIZE

HOLES/INCH 4 WIDTH OR DIAMETER OF SCREEN 2ft6in d HEIGHT OR LENGTH OF SCREEN 4ft1

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Rusted shut in very bad condition

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

FISH SPECIES SEEN

INSPECTION DATE 10/26/79 TIME 1430

FISH BYPASS SYSTEM

INVENTORY NO. Col304.5R

PUMP

NAME Barbarosa Fielding

ADDRESS P.O. Box 6739, Kennewick, WA 99336

PHONE

DIVERSION LOCATION

STATE WA COUNTY Benton TOWN

RIVER Columbia RIVER MILE 304.5

BANK R QUAD. MAP Pendleton

SEC 27 T 06N R 30E

COL. R. STUDY REPT. NO. 33 SITE NO. MC-12

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO. 071-DYC-1-000275-76-46 DATE 11/16/76

WATER RIGHT

WATER RESOURCE AREA WA31 A APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE 03/08/75

QUANTITY-CFS 32.8 ACRE FT/YR 7022 PURPOSE Irrigation

ACRES IRRIGATED 1760

OTHER Water Rights Include A,B. Fielding sites do not exist.

ACCESS ROUTE

PUD Benton County

PUMP INFORMATION

TYPE OF STRUCTURE Concrete Well

LOCATION FROM SHORELINE TO PUMPS -Behind railroad

LOCATION FROM PUMPS TO SCREENS +53ft

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
5	1000	12	Pipe

REMARKS Pipe to Pond. Pipe to reservoir 0.5 miles uphill from pumps. Water Right B Prior Date 05/20/75 Perm Date 03/01/76 Acres 1270 CFS 20.2 AC/FT 5064

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 2 Johnson wedge wire cylinders SCREEN CODE Cy3 DISTANCE FROM SHORELINE 53ft SHORE DIST. CODE +

SUBMERGENCE 13ft TYPE OF MESH MATERIAL Stainless MESH SIZE 0.125in WIRE SIZE 0.06 PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 5ft d HEIGHT OR LENGTH OF SCREEN 5ft

SCREEN CONDITION

TRASH RACK

FRAME Cones beginning to corrode

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 10/23/79

TIME 1330

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col312.0L

PUMP

NAME Port Kelly Yacht Club

ADDRESS 1Jay Scott 1100 S Hwy 395, Hermiston, OR 97838

PHONE 503-567-3981

DIVERSION LOCATION

STATE WA COUNTY Walla Walla TOWN

RIVER Columbia RIVER MILE 312.0

BANK L QUAD. MAP Walla Walla

SEC T R

COL. R. STUDY REPT. NO. SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS ACRE FT/YR PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Ground

LOCATION FROM SHORELINE TO PUMPS -30ft

LOCATION FROM PUMPS TO SCREENS

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	3	2	Pipe

REMARKS Foot valve being used; no screen. 0.125in

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve SCREEN CODE Fv+ DISTANCE FROM SHORELINE + SHORE DIST. CODE +

SUBMERGENCE TYPE OF MESH MATERIAL Cast AL MESH SIZE 0.25 WIRE SIZE PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. C01315.0L

PUMP

NAME Nedrow Farms Inc.

ADDRESS Dodd Road, Wallula, WA 99363

PHONE 509-545-9927

DIVERSION LOCATION

STATE WA COUNTY Walla Walla TOWN Wallula RIVER Columbia RIVER MILE 315.0 BANK L QUAD.MAP Walla Walla SEC 15 T 07N R 31E

CDL.R.STUDY REPT.NO. 33 SITE NO. MC-108 C OF E PUB. NOTICE 071-DYC-1-000241 DATE 04/08/75

C OF E PERMIT NO. 071-DYC-1-000241-75-35 DATE 09/16/75

WATER RIGHT

WATER RESOURCE AREA WA32 APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE 04/17/73

QUANTITY-CFS 179.8 ACRE FT/YR PURPOSE Irrigation ACRES IRRIGATED 6714

OTHER

ACCESS ROUTE Boise Cascade through plant around by railroad and down.

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Concrete pier

LOCATION FROM SHORELINE TO PUMPS ++41ft

LOCATION FROM PUMPS TO SCREENS +

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
5	450	18	Pipe

REMARKS

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Rectangular baskets

SCREEN CODE P1 DISTANCE FROM SHORELINE 41ft

SHORE DIST. CODE ++

SUBMERGENCE TYPE OF MESH MATERIAL Wire

MESH SIZE 0.125in WIRE SIZE 16

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 5ft&4ft

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE Cyclone

MESH Good

RELATION TO SCREEN In front

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 6ft8in

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 04/12/79 TIME 0945

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. C01317.0L

PUMP

NAME Boise Cascade Papers

ADDRESS P.O. Box 500, Wallula, WA 99363

PHONE

DIVERSION LOCATION

STATE WA COUNTY Walla Walla TOWN Wallula RIVER Columbia RIVER MILE 317.0 BANK L QUAD.MAP Walla Walla SEC 09 T 07N R 31E

CDL.R.STUDY REPT.NO. 33 SITE NO. MC-25 C OF E PUB. NOTICE Permit No. NPW DATE 06/14/72

C OF E PERMIT NO. 071-DYC-1-000152-72-24 DATE 09/21/72

WATER RIGHT

WATER RESOURCE AREA WA32 A APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE 06/21/78

QUANTITY-CFS 20.68 ACRE FT/YR PURPOSE Com/Indust/Pulp/Paper ACRES IRRIGATED 0

OTHER Water Rights Include A,B. A new site will be in operation in 1980 and this site will not be used

PUD

ACCESS ROUTE

TYPE OF STRUCTURE Concrete

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS -39ft from deck

LOCATION FROM PUMPS TO SCREENS front

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
3	250	12	Pipe
1	25	12	Pipe
0	0	0	
0			

REMARKS Fire protection backup. Water Right B App# 21445 Perm# 15716 Prior Date 02/19/69 Perm Date 07/15/69 CFS 24.5 AC/FT 17226

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Traveling screens

SCREEN CODE T4 DISTANCE FROM SHORELINE -

SHORE DIST. CODE -

SUBMERGENCE TYPE OF MESH MATERIAL Wire

MESH SIZE 0.25in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH This site will be replaced in 1980

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col320.OLA

PUMP

NAME US Dept of Intr S. Col. Bas I ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY WallaWalla TOWN Burbank

RIVER Columbia RIVER MILE 320.0

BANK L QUAD.MAP Walla Walla SEC 20 T OBN R 31E

COL.R.STUDY REPT.NO. 33 SITE NO. MC-32

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE 11/14/56

WATER RIGHT

WATER RESOURCE AREA WA32 A APPLICATION NO. 19046 PERMIT NO. 14269 CERTIFICATE NO. 10703 PRIORITY DATE 10/27/58

PERMIT DATE 06/01/66

QUANTITY-CFS 80 ACRE FT/YR 23121 PURPOSE Irrigation

ACRES IRRIGATED 3303

OTHER South Columbia Basin Irrigation (Casey Pond).Water Rights Include A,B.

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Vault

LOCATION FROM SHORELINE TO PUMPS - Casey Pond

LOCATION FROM PUMPS TO SCREENS No screens

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
3	250	16	Pipe

REMARKS B530g/min Pipe cement ditch. Water Right B
Prior Date 09/20/76 Acres 350 CFS 10

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN No Screens

SCREEN CODE N

DISTANCE FROM SHORELINE Casey Pond SHORE DIST. CODE -

SUBMERGENCE TYPE OF MESH MATERIAL

MESH SIZE

WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col320.OLB

PUMP

NAME US Dept of Intr S. Col. Bas I ADDRESS P.O. Box 1006,Pasco,WA 99301

PHONE

DIVERSION LOCATION

STATE WA COUNTY WallaWalla TOWN Burbank

RIVER Columbia RIVER MILE 320.0

BANK L QUAD.MAP Walla Walla SEC 20 T OBN R 31E

COL.R.STUDY REPT.NO. SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS 0 ACRE FT/YR 0 PURPOSE

ACRES IRRIGATED 0

OTHER (Casey Pond)

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Vault

LOCATION FROM SHORELINE TO PUMPS -

LOCATION FROM PUMPS TO SCREENS

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
3	100	14	Canal
1	100	16	Canal
0	0	0	
0	0	0	

REMARKS 3-14 1-16 Canal

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN No Screens

SCREEN CODE N

DISTANCE FROM SHORELINE Casey Pond SHORE DIST. CODE -

SUBMERGENCE TYPE OF MESH MATERIAL

MESH SIZE

WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col321.7R

PUMP

NAME Phillips Pacif. Chemical Co. ADDRESS Game Farm Road, Kennewick, WA 99336

PHONE 509-586-6191

DIVERSION LOCATION

STATE WA COUNTY Benton TOWN Kennewick RIVER Columbia RIVER MILE 321.7 BANK R QUAD. MAP Walla Walla SEC 24 T OBN R 30E

COL.R. STUDY REPT. NO. 33 SITE NO. MC-33 C OF E PUB. NOTICE 071-OYC-1-000283 DATE 04/02/76

C OF E PERMIT NO. 071-OYC-2-000283-76-13 DATE 06/03/76

WATER RIGHT

WATER RESOURCE AREA WA31 A APPLICATION NO. 13703 PERMIT NO. 10333 CERTIFICATE NO. 07552 PRIORITY DATE 01/16/56

PERMIT DATE 08/07/56

QUANTITY-CFS 82.0 ACRE FT/YR 0 PURPOSE Comm/Indust/Misc/Manufacture

ACRES IRRIGATED

OTHER Water Rights Include A,B.

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Vault

LOCATION FROM SHORELINE TO PUMPS +-36ft

LOCATION FROM PUMPS TO SCREENS +-36ft

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
3	200	18	Pipe
1	250	18	Pipe
1	100	12	Pipe
1	80	18	Pipe

REMARKS Water Right B App#18838 Perm# 13772 Cert# 09410
Prior Date 01/13/65 Perm Date 04/02/65 CFS 20.0

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 4 Traveling screens

SCREEN CODE Ts4 DISTANCE FROM SHORELINE 36ft

SHORE DIST. CODE ++

SUBMERGENCE TYPE OF MESH MATERIAL Wire

MESH SIZE .25X.625 WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING 1.5in TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 14ft6in

SEDIMENTATION

AMBIENT STREAM VELOCITY

INSPECTION DATE 10/29/79

TIME 1000

FLOW READINGS Max 0.4

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col323.2R

PUMP

NAME Chevron Chem. Company

ADDRESS P.O. Box 6148, Kennewick, WA 99336

PHONE

DIVERSION LOCATION

STATE WA COUNTY Benton TOWN Kennewick RIVER Columbia RIVER MILE 323.2 BANK R QUAD. MAP Walla Walla SEC 23 T OBN R 30E

COL.R. STUDY REPT. NO. 33 SITE NO. MC-40 C OF E PUB. NOTICE DATE

C OF E PERMIT NO. 071-OYC-A-000309-76-9 DATE 04/12/76

WATER RIGHT

WATER RESOURCE AREA WA31 A APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE 05/01/75

PERMIT DATE 12/12/75

QUANTITY-CFS 3.77 ACRE FT/YR 2720 PURPOSE Comm/Indust/Misc

ACRES IRRIGATED

OTHER Heat Exchange; Water Rights Include A,B.

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Concrete

LOCATION FROM SHORELINE TO PUMPS +28ft

LOCATION FROM PUMPS TO SCREENS +132ft

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	100	8	Pipe
3	600	18	Pipe

REMARKS Cooling H2O intake on dock. Water Right B
Prior Date 03/24/76 Perm Date 11/23/76 CFS 40.0

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 6 Johnson wedge wire screens

SCREEN CODE Cy3 DISTANCE FROM SHORELINE 112ft

SHORE DIST. CODE +

SUBMERGENCE 10ft TYPE OF MESH MATERIAL Wedge wire

MESH SIZE 0.140in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 30in d

HEIGHT OR LENGTH OF SCREEN 5ft

SCREEN CONDITION

TRASH RACK

FRAME Good

BAR SPACING TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS Good

DEBRIS LOCATION AND AMOUNT

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

SEDIMENTATION

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FLOW READINGS

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col326.5L

PUMP

NAME Port of Pasco
DIVERSION LOCATION

ADDRESS P.O. Box 769, Pasco, WA 99301

PHONE

STATE WA COUNTY Franklin TOWN Pasco

RIVER Columbia RIVER MILE 326.5 BANK L QUAD.MAP Walla Walla SEC 04 T 08N R 30E
C OF E PUB. NOTICE DATE
C OF E PERMIT NO. NPW 70-37-71-4 DATE 01/21/71

WATER RIGHT

WATER RESOURCE AREA WA36 APPLICATION NO. 22074 PERMIT NO. 16455 CERTIFICATE NO. 11443 PRIORITY DATE 03/12/70
PERMIT DATE 03/16/71

QUANTITY-CFS 14.5 ACRE FT/YR 51 PURPOSE Fire Protection ACRES IRRIGATED
OTHER For fire protection only.

ACCESS ROUTE

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS ††	TYPE OF STRUCTURE	Vault
NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)
TYPE OF DISCHARGE	LOCATION FROM PUMPS TO SCREENS †	REMARKS

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Fire use only

SUBMERGENCE TYPE OF MESH MATERIAL
HOLES/INCH WIDTH OR DIAMETER OF SCREEN

SCREEN CODE F DISTANCE FROM SHORELINE SHORE DIST. CODE
MESH SIZE 0.125in WIRE SIZE PERFORATION SIZE
HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

FRAME

MESH

SEALS

TRASH RACK
BAR SPACING TRASH FENCE
RELATION TO SCREEN

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

FLOW READINGS

FISH BYPASS SYSTEM

SCOURING
AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F WATER ELEVATION
INSPECTION DATE TIME
FISH SPECIES SEEN

INVENTORY NO. Col328.3L

PUMP

NAME City of Pasco
DIVERSION LOCATION

ADDRESS George Fisher, City Eng., Pasco, WA 99301

PHONE

STATE WA COUNTY Franklin TOWN Pasco

RIVER Columbia RIVER MILE 328.3 BANK L QUAD.MAP Walla Walla SEC 31 T 09N R 29E
C OF E PUB. NOTICE DATE
C OF E PERMIT NO. 612-39/9 DATE 11/21/23

WATER RIGHT

WATER RESOURCE AREA WA36 APPLICATION NO. 17908 PERMIT NO. 13179 CERTIFICATE NO. 11660 PRIORITY DATE 05/13/63
PERMIT DATE 09/17/63

QUANTITY-CFS 35.0 ACRE FT/YR 7000 PURPOSE Domestic ACRES IRRIGATED
OTHER

ACCESS ROUTE

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS ††46ft	TYPE OF STRUCTURE	Vault			
NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)			
TYPE OF DISCHARGE	LOCATION FROM PUMPS TO SCREENS †	REMARKS			
2	100	10	Pipe		
1	50	8	Pipe		
1	25	8	Pipe		

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Traveling screen
SUBMERGENCE TYPE OF MESH MATERIAL Wire
HOLES/INCH WIDTH OR DIAMETER OF SCREEN

SCREEN CODE Ts4 DISTANCE FROM SHORELINE + SHORE DIST. CODE ††
MESH SIZE 0.25in WIRE SIZE PERFORATION SIZE
HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

FRAME

MESH

SEALS

TRASH RACK
BAR SPACING TRASH FENCE
RELATION TO SCREEN

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

FLOW READINGS

FISH BYPASS SYSTEM

SCOURING
AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F WATER ELEVATION
INSPECTION DATE TIME
FISH SPECIES SEEN

INVENTORY NO. Col330.1R
PUMP

NAME Benton County Park
DIVERSION LOCATION
STATE WA COUNTY Benton
COL.R.STUDY REPT.NO.

ADDRESS Lagoon Area,,

PHONE

TOWN Kennecik RIVER Columbia RIVER MILE 330.1 BANK R QUAD.MAP
C OF E PUB. NOTICE DATE
C OF E PERMIT NO. DATE
SEC T R

WATER RIGHT
WATER RESOURCE AREA APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE
QUANTITY-CFS ACRE FT/YR PURPOSE ACRES IRRIGATED
OTHER Includes sites A,B,C.

ACCESS ROUTE PUD
PUMP INFORMATION TYPE OF STRUCTURE
LOCATION FROM SHORELINE TO PUMPS A-27.5ft B&C-21ft LOCATION FROM PUMPS TO SCREENS
NUMBER HP SIZE OF TYPE OF DISCHARGE DISCHARGE REMARKS
OF PUMPS EACH (INCHES) TYPE OF DISCHARGE
1 25 4 Pipe
1 15 3.5 Pipe
1 20 3.5 Pipe

FISH SCREEN
PUMP NO.
SCREEN DESCRIPTION
TYPE OF SCREEN Unknown 3 Sites in the Lagoon SCREEN CODE U DISTANCE FROM SHORELINE SHORE DIST. CODE
SUBMERGENCE TYPE OF MESH MATERIAL MESH SIZE WIRE SIZE PERFORATION SIZE
HOLES/INCH WIDTH OR DIAMETER OF SCREEN HEIGHT OR LENGTH OF SCREEN
SCREEN CONDITION TRASH RACK
FRAME BAR SPACING TRASH FENCE
MESH RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT
SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE TIME
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col330.2R
PUMP

NAME Benton County Park
DIVERSION LOCATION
STATE WA COUNTY Benton
COL.R.STUDY REPT.NO.

ADDRESS Water Follies,,

PHONE

TOWN Kennecik RIVER Columbia RIVER MILE 330.2 BANK R QUAD.MAP
C OF E PUB. NOTICE DATE
C OF E PERMIT NO. 071-0YC-1-00242-75-34 DATE 10/08/75
SEC T R

WATER RIGHT
WATER RESOURCE AREA APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE
QUANTITY-CFS ACRE FT/YR PURPOSE ACRES IRRIGATED
OTHER

ACCESS ROUTE PUD
PUMP INFORMATION TYPE OF STRUCTURE Cinder block
LOCATION FROM SHORELINE TO PUMPS -16ft6in LOCATION FROM PUMPS TO SCREENS +36ft
NUMBER HP SIZE OF TYPE OF DISCHARGE DISCHARGE REMARKS
OF PUMPS EACH (INCHES) TYPE OF DISCHARGE
1 25 2.5 Pipe

FISH SCREEN
PUMP NO.
SCREEN DESCRIPTION
TYPE OF SCREEN Plastic Cap SCREEN CODE Ep2 DISTANCE FROM SHORELINE 19ft SHORE DIST. CODE +
SUBMERGENCE 5ft TYPE OF MESH MATERIAL Plastic MESH SIZE .375x2in WIRE SIZE PERFORATION SIZE
HOLES/INCH WIDTH OR DIAMETER OF SCREEN HEIGHT OR LENGTH OF SCREEN
SCREEN CONDITION TRASH RACK
FRAME BAR SPACING TRASH FENCE
MESH Good. RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT
SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE TIME
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col331.5L

PUMP

NAME Franklin Co. Irrig. Dist. 1 ADDRESS P.O. Box 353, Pasco, WA 99301

PHONE

DIVERSION LOCATION

STATE WA COUNTY Franklin TOWN Pasco
COL.R.STUDY REPT.NO. 33 SITE NO. MC-60

RIVER Columbia RIVER MILE 331.5
C OF E PUB. NOTICE
C OF E PERMIT NO. NPW70-33-71-18

BANK L QUAD.MAP Walla Walla SEC 18 T 09N R 29E
DATE
DATE 05/06/71

WATER RIGHT

WATER RESOURCE AREA WA36 A APPLICATION NO. 21228A PERMIT NO. 16225A CERTIFICATE NO.
PERMIT DATE 09/08/70

PRIORITY DATE 09/13/68

QUANTITY-CFS 83.0 ACRE FT/YR 18300 PURPOSE Irrigation

ACRES IRRIGATED 3000

OTHER (Pump plant No. 2) Water Rights Include A,B.

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Vault

LOCATION FROM SHORELINE TO PUMPS ++16ft

LOCATION FROM PUMPS TO SCREENS ++11ftBin

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	450	2.5	Pipe
1	300	2	Pipe
1	125	18	Pipe

REMARKS ++11ftBin from first row of pumps by shore.
Water Right B App# 21228B Perm# 16225B Prior Date 09/13/68 PermDate09/08/70Acres3000CFS83 AC/Ft18300

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 2 flat screens. Db1. Screened
SUBMERGENCE 0 TYPE OF MESH MATERIAL
HOLES/INCH 6 WIDTH OR DIAMETER OF SCREEN
SCREEN CONDITION
FRAME
MESH Screen only down on one side.
SEALS

SCREEN CODE P1 DISTANCE FROM SHORELINE 27ft8in SHORE DIST. CODE ++
MESH SIZE 0.25in WIRE SIZE 26 PERFORATION SIZE
HEIGHT OR LENGTH OF SCREEN
TRASH RACK
BAR SPACING 2.5in TRASH FENCE
RELATION TO SCREEN 2inch holes.

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 20ft2in

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 04/18/79

TIME 900

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col333.5L

PUMP

NAME Chiawana Park

ADDRESS ,Pasco,WA 99301

PHONE

DIVERSION LOCATION

STATE WA COUNTY Franklin TOWN Pasco
COL.R.STUDY REPT.NO. SITE NO.

RIVER Columbia RIVER MILE 333.5
C OF E PUB. NOTICE
C OF E PERMIT NO.

BANK L QUAD.MAP SEC T R
DATE
DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Concrete

LOCATION FROM SHORELINE TO PUMPS -100ft

LOCATION FROM PUMPS TO SCREENS +150ft

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	10	2	Pipe

REMARKS

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Box
SUBMERGENCE 4ft TYPE OF MESH MATERIAL Wolven wire
HOLES/INCH 4 WIDTH OR DIAMETER OF SCREEN 1ft
SCREEN CONDITION
FRAME
MESH A total of 3 pipes going into sump.
SEALS

SCREEN CODE Bx2 DISTANCE FROM SHORELINE 50ft SHORE DIST. CODE +
MESH SIZE WIRE SIZE 9 PERFORATION SIZE
HEIGHT OR LENGTH OF SCREEN 1ft
TRASH RACK
BAR SPACING TRASH FENCE
RELATION TO SCREEN

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION Rocky area.

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/18/79

TIME 1430

FISH BYPASS SYSTEM

FISH SPECIES SEEN

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Box with wire surrounding it
SUBMERGENCE 4ft TYPE OF MESH MATERIAL Wolven wire
HOLES/INCH 4 WIDTH OR DIAMETER OF SCREEN 1ft
SCREEN CONDITION
FRAME
MESH Good (3 Pipes going into pump location.)
SEALS

SCREEN CODE Bx2 DISTANCE FROM SHORELINE 50ft SHORE DIST. CODE +
MESH SIZE 0.125in WIRE SIZE 9 PERFORATION SIZE
HEIGHT OR LENGTH OF SCREEN 1ft4in
TRASH RACK
BAR SPACING TRASH FENCE
RELATION TO SCREEN

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION Rocky Area

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Co1333.BR

PUMP

NAME Benton County Park

ADDRESS Camp Ground,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Benton

TOWN Richland

RIVER Columbia RIVER MILE 333.8

BANK R QUAD.MAP

SEC

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COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO. NPWKO

DATE 08/30/62

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Cinder block

LOCATION FROM SHORELINE TO PUMPS -34ft

LOCATION FROM PUMPS TO SCREENS +48ft

NUMBER OF PUMPS

HP EACH

SIZE OF DISCHARGE (INCHES)

TYPE OF DISCHARGE

REMARKS

1

50

5

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 14ft

SHORE DIST. CODE +

SUBMERGENCE 5ft TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.375in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6in d

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION 0.5ft buried.

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS 0.2

AMBIENT STREAM VELOCITY

INSPECTION DATE 04/16/79

TIME 1555

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Co1334.OR

PUMP

NAME Benton County Park

ADDRESS Archery Range,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Benton

TOWN Richland

RIVER Columbia RIVER MILE 334.0

BANK R QUAD.MAP

SEC

T

R

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Cinder block

LOCATION FROM SHORELINE TO PUMPS -52ft

LOCATION FROM PUMPS TO SCREENS +64ft

NUMBER OF PUMPS

HP EACH

SIZE OF DISCHARGE (INCHES)

TYPE OF DISCHARGE

REMARKS

1

20

3.5

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 12ft

SHORE DIST. CODE +

SUBMERGENCE 8in TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.25in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 04/16/79

TIME 1455

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col334.5L

PUMP

NAME Chiawana Park ADDRESS ,Pasco,WA 99301 PHONE
DIVERSION LOCATION
STATE WA COUNTY Franklin TOWN Pasco RIVER Columbia RIVER MILE 334.5 BANK L QUAD.MAP SEC T R
COL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE DATE
C OF E PERMIT NO. DATE

WATER RIGHT
WATER RESOURCE AREA APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE
QUANTITY-CFS ACRE FT/YR PURPOSE Irrigation ACRES IRRIGATED

OTHER
ACCESS ROUTE PUD
PUMP INFORMATION TYPE OF STRUCTURE Concrete
LOCATION FROM SHORELINE TO PUMPS -44ft LOCATION FROM PUMPS TO SCREENS +56ft
NUMBER HP SIZE OF TYPE OF
OF PUMPS EACH DISCHARGE DISCHARGE
1 10 3 Pipe

FISH SCREEN

PUMP NO.
SCREEN DESCRIPTION
TYPE OF SCREEN None SCREEN CODE N DISTANCE FROM SHORELINE 12ft SHORE DIST. CODE +
SUBMERGENCE 1ft TYPE OF MESH MATERIAL MESH SIZE WIRE SIZE PERFORATION SIZE
HOLES/INCH WIDTH OR DIAMETER OF SCREEN HEIGHT OR LENGTH OF SCREEN
SCREEN CONDITION TRASH RACK
FRAME BAR SPACING TRASH FENCE
MESH RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT
SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE TIME
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col335.0L

PUMP

NAME Pre-Mix Concre. Incorporated ADDRESS P.O. Box 695,Kennewick,WA 99336 PHONE
DIVERSION LOCATION
STATE WA COUNTY Franklin TOWN Pasco RIVER Columbia RIVER MILE 335.0 BANK L QUAD.MAP Walla Walla SEC 12 T 08N R 30E
COL.R.STUDY REPT.NO. 33 SITE NO. MC-69 C OF E PUB. NOTICE DATE
C OF E PERMIT NO. Letter DATE 02/01/61

WATER RIGHT
WATER RESOURCE AREA WA36 APPLICATION NO. 13026 PERMIT NO. 09775 CERTIFICATE NO. 06033 PRIORITY DATE 07/16/64
PERMIT DATE 12/17/54

QUANTITY-CFS 1.1 ACRE FT/YR PURPOSE Comm/Indust/Sand/Gravel ACRES IRRIGATED
OTHER
ACCESS ROUTE Foot valve 0.875 PUD
PUMP INFORMATION TYPE OF STRUCTURE Ground
LOCATION FROM SHORELINE TO PUMPS - LOCATION FROM PUMPS TO SCREENS +
NUMBER HP SIZE OF TYPE OF REMARKS Pipe to across road.
OF PUMPS EACH DISCHARGE DISCHARGE
1 40 4 Pipe

FISH SCREEN

PUMP NO.
SCREEN DESCRIPTION
TYPE OF SCREEN Foot valve SCREEN CODE Fv2 DISTANCE FROM SHORELINE 10ft SHORE DIST. CODE +
SUBMERGENCE 2ft TYPE OF MESH MATERIAL Cast A1 MESH SIZE 0.375in WIRE SIZE PERFORATION SIZE
HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6in d HEIGHT OR LENGTH OF SCREEN 6in
SCREEN CONDITION TRASH RACK
FRAME BAR SPACING TRASH FENCE
MESH RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT
SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE TIME
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. C01337.9L

PUMP

NAME Horrigan Farms

ADDRESS 114 S. 5th, Pasco, WA

PHONE

DIVERSION LOCATION

STATE WA COUNTY Franklin TOWN Richland RIVER Columbia RIVER MILE 337.9 BANK L QUAD.MAP Walla Walla SEC 12 T 09N R 28E

COL.R.STUDY REPT.NO. 33 SITE NO. MC-74 C OF E PUB. NOTICE
C OF E PERMIT NO.

DATE
DATE 07/22/53

WATER RIGHT

WATER RESOURCE AREA WA36 A APPLICATION NO. 11995A PERMIT NO. 08772A CERTIFICATE NO. 05985A PRIORITY DATE 01/21/53
PERMIT DATE 03/27/53

QUANTITY-CFS 2.54 ACRE FT/YR PURPOSE Irrigation ACRES IRRIGATED 97
OTHER Old pump house not in use. Water Rights Include A,B.

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Ground

LOCATION FROM SHORELINE TO PUMPS -

LOCATION FROM PUMPS TO SCREENS -

NUMBER OF PUMPS HP SIZE OF DISCHARGE (INCHES) TYPE OF DISCHARGE

REMARKS Old pump house not in use. Water Right B
App# 11995B Perm# 08772B Cert# 05985B Prior Date
01/21/53 Perm Date 03/27/53 Acres 97 CFS 2.54

1 50 4 Pipe
1 50 4 Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

SCREEN CODE Pp1 DISTANCE FROM SHORELINE 16ft6in SHORE DIST. CODE -

TYPE OF SCREEN Pipe

SUBMERGENCE TYPE OF MESH MATERIAL 8"X18"L Pipe MESH SIZE 0.125in WIRE SIZE PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 1ft2in d HEIGHT OR LENGTH OF SCREEN 20ft

SCREEN CONDITION

TRASH RACK
BAR SPACING TRASH FENCE
RELATION TO SCREEN

FRAME

MESH Good.

SEALS

DEBRIS LOCATION AND AMOUNT

SCOURING
AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F WATER ELEVATION 6ft3in
INSPECTION DATE 09/18/79 TIME 1330
FISH SPECIES SEEN

SEDIMENTATION

FLOW READINGS

FISH BYPASS SYSTEM

INVENTORY NO. C01338.5L

PUMP

NAME Glenn C. Walkley

ADDRESS Rt. 5, Box 5010, Pasco, WA 99301

PHONE

DIVERSION LOCATION

STATE WA COUNTY Franklin TOWN Pasco RIVER Columbia RIVER MILE 338.5 BANK L QUAD.MAP Walla Walla SEC 01 T 09N R 28E

COL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE
C OF E PERMIT NO.

DATE
DATE

WATER RIGHT

WATER RESOURCE AREA WA36 APPLICATION NO. 06876 PERMIT NO. 04651 CERTIFICATE NO. 03586 PRIORITY DATE 01/26/46
PERMIT DATE 09/20/46

QUANTITY-CFS 0.01 ACRE FT/YR 0 PURPOSE Irrigation/Domestic ACRES IRRIGATED 15
OTHER Intakes underboat house Quantity 0.3

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Concrete

LOCATION FROM SHORELINE TO PUMPS -83ft

LOCATION FROM PUMPS TO SCREENS unknown

NUMBER OF PUMPS HP SIZE OF DISCHARGE (INCHES) TYPE OF DISCHARGE

2 10 4 Pipe
1 15 4.5 Pipe
1 20 3 Pipe
2 1.5 2 Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

SCREEN CODE U DISTANCE FROM SHORELINE 49.5ft SHORE DIST. CODE -

TYPE OF SCREEN (Unknown)

SUBMERGENCE TYPE OF MESH MATERIAL

MESH SIZE WIRE SIZE PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK
BAR SPACING TRASH FENCE
RELATION TO SCREEN

FRAME

MESH To much debris to dive. 09/18/79

SEALS

DEBRIS LOCATION AND AMOUNT

SCOURING
AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F WATER ELEVATION
INSPECTION DATE 09/18/79 TIME 1150
FISH SPECIES SEEN

SEDIMENTATION

FLOW READINGS

FISH BYPASS SYSTEM

INVENTORY NO. Col340.BR

PUMP

NAME City of Richland

ADDRESS City Hall, Richland, WA 99352

PHONE

DIVERSION LOCATION

STATE 33 COUNTY Benton

TOWN Richland

RIVER Columbia RIVER MILE 340.8 BANK R QUAD. MAP Walla Walla SEC 24 T 10N R 28E

CDL.R.STUDY REPT.NO. 33

SITE NO. MC-80

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE 08/30/62

WATER RIGHT

WATER RESOURCE AREA WA40 A APPLICATION NO. 16726 PERMIT NO. 12416 CERTIFICATE NO. 09004 PRIORITY DATE 06/15/61

PERMIT DATE 06/18/61

ACRES IRRIGATED

QUANTITY-CFS 0.67 ACRE FT/YR

PURPOSE Dom/General

OTHER Water Rights Include A,B,C,D,E,F

PUD

ACCESS ROUTE Saint Street Richland

TYPE OF STRUCTURE Pier Vault

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS	NUMBER OF PUMPS	SHORELINE TO PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
++5ft6in	1		100	18	Pipe
	2		200	18	Pipe
	3		300	18	Pipe

LOCATION FROM PUMPS TO SCREENS ↑
 REMARKS Water Rights B,C,D,E,F App#17121A;17121B;17121C;17121D;19192 Perm#12666A;12666B;12666C;12666D;14030 Cert#09005A;09005B;09005C;09005D;09592 Prior Dates 01/30/62;01/30/62;01/30/62;01/30/62;08/11/65. Perm Dates 05/17/62;05/17/62;05/17/62;05/16/62;11/18/65. Acres 190CFS23.25; 31.0; 2.0 AC/FT 19290;13140;19290;13140; 760.

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 2 Traveling screens (Jeffrey). SCREEN CODE Ts4 DISTANCE FROM SHORELINE 51ft6in SHORE DIST. CODE ++

SUBMERGENCE TYPE OF MESH MATERIAL

MESH SIZE 0.125in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6ft

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

FLOW READINGS

FISH BYPASS SYSTEM

SCOURING

AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F WATER ELEVATION 24ft6in

FISH SPECIES SEEN INSPECTION DATE 04/13/79 TIME 1050

INVENTORY NO. Col341.5R

PUMP

NAME Milton Lewis

ADDRESS 2600 Harris Ave., Richland, WA 99352

PHONE

DIVERSION LOCATION

STATE WA COUNTY Benton

TOWN Richland

RIVER Columbia RIVER MILE 341.5 BANK R QUAD. MAP Walla Walla SEC 25 T 10N R 28E

CDL.R.STUDY REPT.NO. 33 SITE NO. MC-77

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO. NPWOP-0M

DATE 10/10/66

WATER RIGHT

WATER RESOURCE AREA WA40 APPLICATION NO. 19694 PERMIT NO. 14412 CERTIFICATE NO. 09764 PRIORITY DATE 06/06/66

PERMIT DATE 09/14/66

ACRES IRRIGATED .5

QUANTITY-CFS .01 ACRE FT/YR 2.0

PURPOSE Irrigation

OTHER (Lewis is the successor of Sloat Permittee)

PUD

ACCESS ROUTE

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS	NUMBER OF PUMPS	SHORELINE TO PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
	1		1.5	1.5	Pipe

LOCATION FROM PUMPS TO SCREENS

REMARKS

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve SCREEN CODE Fv2 DISTANCE FROM SHORELINE 15ft SHORE DIST. CODE +

SUBMERGENCE 5ft TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.25in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2.5in d HEIGHT OR LENGTH OF SCREEN 2in

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

FLOW READINGS

FISH BYPASS SYSTEM

SCOURING

AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F WATER ELEVATION

FISH SPECIES SEEN INSPECTION DATE 09/18/79 TIME 1130

INVENTORY NO. Col341.6R
PUMP

NAME Ivan Huffman ADDRESS 2608 Harris, Richland, WA 99352 PHONE
DIVERSION LOCATION
STATE WA COUNTY Benton TOWN Richland RIVER Columbia RIVER MILE 341.6 BANK R QUAD. MAP Walla Walla SEC 25 T 09N R 28E
COL. R. STUDY REPT. NO. SITE NO. C OF E PUB. NOTICE DATE
C OF E PERMIT NO. DATE

WATER RIGHT
WATER RESOURCE AREA WA40 APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE 01/06/73
PERMIT DATE 01/08/75
QUANTITY-CFS 0.01 ACRE FT/YR 2.6 PURPOSE Irrigation ACRES IRRIGATED 5
OTHER Intake is Pvc Pipe

ACCESS ROUTE PUD
PUMP INFORMATION TYPE OF STRUCTURE Ground
LOCATION FROM SHORELINE TO PUMPS -43ft LOCATION FROM PUMPS TO SCREENS +68ft
NUMBER OF PUMPS HP EACH SIZE OF DISCHARGE (INCHES) TYPE OF DISCHARGE REMARKS
1 1.5 2.25 Pipe

FISH SCREEN
PUMP NO.
SCREEN DESCRIPTION TYPE OF SCREEN Foot valve. SCREEN CODE Fv2 DISTANCE FROM SHORELINE 25ft SHORE DIST. CODE +
SUBMERGENCE 2ft TYPE OF MESH MATERIAL Cast Al MESH SIZE 0.25in WIRE SIZE PERFORATION SIZE
HOLES/INCH WIDTH OR DIAMETER OF SCREEN HEIGHT OR LENGTH OF SCREEN
SCREEN CONDITION TRASH RACK
FRAME BAR SPACING TRASH FENCE
MESH RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT
SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE TIME
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col343.3R
PUMP

NAME Port of Benton ADDRESS P.O. Box 307, Richland, WA 99352 PHONE
DIVERSION LOCATION
STATE WA COUNTY Benton TOWN Richland RIVER Columbia RIVER MILE 343.3 BANK R QUAD. MAP Walla Walla SEC 14 T 10N R 28E
COL. R. STUDY REPT. NO. 33 SITE NO. MC-82 C OF E PUB. NOTICE DATE 08/05/65
C OF E PERMIT NO. NPWOP-0m DATE 09/16/65

WATER RIGHT
WATER RESOURCE AREA WA40 APPLICATION NO. 18937 PERMIT NO. 13908 CERTIFICATE NO. 10176 PRIORITY DATE 04/06/65
PERMIT DATE 07/23/65
QUANTITY-CFS 4.4 ACRE FT/YR 880 PURPOSE Irrigation ACRES IRRIGATED 220
OTHER

ACCESS ROUTE L.E. Jenkins Battelle 946-2509 PUD
PUMP INFORMATION TYPE OF STRUCTURE Dock
LOCATION FROM SHORELINE TO PUMPS ++ LOCATION FROM PUMPS TO SCREENS +
NUMBER OF PUMPS HP EACH SIZE OF DISCHARGE (INCHES) TYPE OF DISCHARGE REMARKS
3 75 8 Pipe

FISH SCREEN
PUMP NO.
SCREEN DESCRIPTION TYPE OF SCREEN 4 Panels SCREEN CODE P1 DISTANCE FROM SHORELINE 96ft SHORE DIST. CODE ++
SUBMERGENCE 6ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.25in WIRE SIZE B PERFORATION SIZE
HOLES/INCH 3 WIDTH OR DIAMETER OF SCREEN 2ft6in HEIGHT OR LENGTH OF SCREEN 4ft
SCREEN CONDITION TRASH RACK
FRAME BAR SPACING TRASH FENCE
MESH Good RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT
SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE 09/20/79 TIME 1530
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col345.OR

PUMP

NAME PNI & HEDL 300 Area

ADDRESS P.O. Box 96B, Richland, WA 99352

PHONE

DIVERSION LOCATION

STATE WA COUNTY Benton

TOWN Hanford

RIVER Columbia RIVER MILE 345.0

BANK R QUAD.MAP Walla Walla SEC 02 T 11N R 28E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO. 071-DYC-1-000745-79-12 DATE 02/07/79

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PLD

PUMP INFORMATION

TYPE OF STRUCTURE Concrete

LOCATION FROM SHORELINE TO PUMPS +/-

LOCATION FROM PUMPS TO SCREENS +/-

NUMBER
OF PUMPS

HP
EACH

SIZE OF
DISCHARGE
(INCHES)

TYPE OF
DISCHARGE

REMARKS

2

450

18

Pipe

1

60

8

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

SCREEN CODE P1 DISTANCE FROM SHORELINE

SHORE DIST. CODE +/-

TYPE OF SCREEN Panel

SUBMERGENCE 10ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.5in WIRE SIZE 12

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 10ft/in

HEIGHT OR LENGTH OF SCREEN 20ft

SCREEN CONDITION

TRASH RACK

FRAME Concave at bottom

BAR SPACING 1.5in TRASH FENCE

MESH

RELATION TO SCREEN In front

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION 3ft or more of silt. SCOURING

SURFACE WATER TEMP DEGREE F 68 WATER ELEVATION

FLOW READINGS Max 0.3

AMBIENT STREAM VELOCITY 0.2

INSPECTION DATE 09/07/79 TIME 1400

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col348.OR

PUMP

NAME Central PreMix Concrete Co.

ADDRESS Box 3366, Spokane, WA 99220

PHONE

DIVERSION LOCATION

STATE WA COUNTY Benton

TOWN Hanford

RIVER Columbia RIVER MILE 348.0

BANK R QUAD.MAP Walla Walla SEC 26 T 11N R 28E

COL.R.STUDY REPT.NO. 33

SITE NO. MC-86

C OF E PUB. NOTICE 071-DYC-176

DATE 08/03/72

C OF E PERMIT NO. 071-DYC-1-000176-72-26 DATE 09/29/72

WATER RIGHT

WATER RESOURCE AREA WA40

APPLICATION NO.

PERMIT NO.
PERMIT DATE 02/04/74

CERTIFICATE NO.

PRIORITY DATE 06/27/72

QUANTITY-CFS

1.78 ACRE FT/YR

343.2 PURPOSE Comm/Indust/Misc

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PLD

PUMP INFORMATION

TYPE OF STRUCTURE Ground

LOCATION FROM SHORELINE TO PUMPS -26ft.

LOCATION FROM PUMPS TO SCREENS None

NUMBER
OF PUMPS

HP
EACH

SIZE OF
DISCHARGE
(INCHES)

TYPE OF
DISCHARGE

REMARKS The 100 Hp pump was not being used at the time of inspection.

1

100

4

Pipe

1

60

4

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 6ft

SHORE DIST. CODE +/-

TYPE OF SCREEN Foot valve

SUBMERGENCE TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.375in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 04/16/79 TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col348.2L

PUMP

NAME ADDRESS , , PHONE
 DIVERSION LOCATION
 STATE WA COUNTY Franklin TOWN Mesa RIVER Columbia RIVER MILE 348.2 BANK L QUAD.MAP Walla Walla SEC T 11N R 28E
 COL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE DATE
 C OF E PERMIT NO. DATE

WATER RIGHT
 WATER RESOURCE AREA APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE
 PERMIT DATE

QUANTITY-CFS ACRE FT/YR PURPOSE ACRES IRRIGATED
 OTHER
 ACCESS ROUTE PUD
 PUMP INFORMATION TYPE OF STRUCTURE
 LOCATION FROM SHORELINE TO PUMPS -79ft LOCATION FROM PUMPS TO SCREENS +81ft
 NUMBER HP SIZE OF TYPE OF
 OF PUMPS EACH DISCHARGE DISCHARGE
 (INCHES)
 1 40 6 Pipe

FISH SCREEN

PUMP NO. 1
 SCREEN DESCRIPTION
 TYPE OF SCREEN Wire SCREEN CODE Cy2 DISTANCE FROM SHORELINE 12ft SHORE DIST. CODE +
 SUBMERGENCE 2ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.5in WIRE SIZE PERFORATION SIZE
 HOLES/INCH WIDTH OR DIAMETER OF SCREEN 1ft d HEIGHT OR LENGTH OF SCREEN 1ft6in
 SCREEN CONDITION TRASH RACK
 FRAME BAR SPACING TRASH FENCE
 MESH Good RELATION TO SCREEN
 SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
 FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE TIME
 FISH BYPASS SYSTEM FISH SPECIES SEEN

FISH SCREEN

PUMP NO. 2
 SCREEN DESCRIPTION
 TYPE OF SCREEN Foot valve. SCREEN CODE Fv DISTANCE FROM SHORELINE SHORE DIST. CODE +
 SUBMERGENCE 4in TYPE OF MESH MATERIAL Cast Al MESH SIZE WIRE SIZE PERFORATION SIZE
 HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6in d HEIGHT OR LENGTH OF SCREEN 4in
 SCREEN CONDITION TRASH RACK
 FRAME BAR SPACING TRASH FENCE
 MESH RELATION TO SCREEN
 SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
 FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE TIME
 FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col353.0L

PUMP

NAME Mel McInturf ADDRESS Star Route 5, Mesa, WA 99343 PHONE
 DIVERSION LOCATION
 STATE WA COUNTY Franklin TOWN RIVER Columbia RIVER MILE 353.0 BANK L QUAD.MAP Walla Walla SEC T 12N R 28E
 COL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE DATE
 C OF E PERMIT NO. DATE

WATER RIGHT
 WATER RESOURCE AREA APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE
 PERMIT DATE

QUANTITY-CFS ACRE FT/YR PURPOSE ACRES IRRIGATED
 OTHER
 ACCESS ROUTE PUD
 PUMP INFORMATION TYPE OF STRUCTURE
 LOCATION FROM SHORELINE TO PUMPS -75ft LOCATION FROM PUMPS TO SCREENS +87ft
 NUMBER HP SIZE OF TYPE OF
 OF PUMPS EACH DISCHARGE DISCHARGE
 (INCHES)
 1 15 3

FISH SCREEN

PUMP NO.
 SCREEN DESCRIPTION
 TYPE OF SCREEN Wooden box no screen on end SCREEN CODE N DISTANCE FROM SHORELINE 12ft SHORE DIST. CODE +
 SUBMERGENCE 2ft TYPE OF MESH MATERIAL MESH SIZE WIRE SIZE PERFORATION SIZE
 HOLES/INCH WIDTH OR DIAMETER OF SCREEN 1ft d HEIGHT OR LENGTH OF SCREEN 1ft
 SCREEN CONDITION TRASH RACK
 FRAME BAR SPACING TRASH FENCE
 MESH Wooden box with no screen on end; the end is open. RELATION TO SCREEN
 SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
 FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE 09/20/79 TIME
 FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. C01353.0R

PUMP

NAME WPPS #2

ADDRESS 3000 George Washington Wy, Richland, WA 99352

PHONE 509-375-5610

DIVERSION LOCATION

STATE WA COUNTY Benton

TOWN Hanford

RIVER Columbia RIVER MILE 353.0 BANK R QUAD.MAP Walla Walla SEC

T 12N R 28E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE 071-QVC-1-000221

DATE 03/27/74

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

84.6 ACRE FT/YR

PURPOSE

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Concrete

LOCATION FROM SHORELINE TO PUMPS -

LOCATION FROM PUMPS TO SCREENS +

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

0

0

(INCHES)

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder (Perforated pipe)

SCREEN CODE Cy2

DISTANCE FROM SHORELINE

SHORE DIST. CODE +

SUBMERGENCE 4ft TYPE OF MESH MATERIAL Stainless

MESH SIZE

WIRE SIZE

PERFORATION SIZE 0.125

HOLES/INCH 5 WIDTH OR DIAMETER OF SCREEN 3ft6in d HEIGHT OR LENGTH OF SCREEN 30ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. C01353.4L

PUMP

NAME Max Kinnie

ADDRESS Star Route 5, Mesa, WA 99343

PHONE

DIVERSION LOCATION

STATE WA COUNTY Franklin

TOWN Mesa

RIVER Columbia RIVER MILE 353.4

BANK L QUAD.MAP Walla Walla SEC

T 12N R 28E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Cement

LOCATION FROM SHORELINE TO PUMPS -69ft

LOCATION FROM PUMPS TO SCREENS +86ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

1

25

(INCHES)

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Wire

SCREEN CODE Cy2

DISTANCE FROM SHORELINE 17ft

SHORE DIST. CODE +

SUBMERGENCE 3ft TYPE OF MESH MATERIAL 2 scrn on it MESH SIZE 1"x.25" WIRE SIZE

MESH SIZE

WIRE SIZE

PERFORATION SIZE

HOLES/INCH 4 WIDTH OR DIAMETER OF SCREEN 9in d HEIGHT OR LENGTH OF SCREEN 3ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH 0.25 fallen off of 1in screen.

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/20/79

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col354.0L

PUMP

NAME Don Huntzinger

ADDRESS Ringld Rnch Star Rt. 5, Mesa, WA 99343

PHONE

DIVERSION LOCATION

STATE WA COUNTY Franklin TOWN Mesa

RIVER Columbia RIVER MILE 354.0 BANK L QUAD.MAP Walla Walla SEC T 12N R 28E

CDL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Rock fill

LOCATION FROM SHORELINE TO PUMPS -75ft

LOCATION FROM PUMPS TO SCREENS +87ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

25

4

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Wooden box no screen on end

SCREEN CODE N

DISTANCE FROM SHORELINE 6ft

SHORE DIST. CODE +

SUBMERGENCE 3ft

TYPE OF MESH MATERIAL

MESH SIZE

WIRE SIZE

PERFORATION SIZE

HOLES/INCH

WIDTH OR DIAMETER OF SCREEN 1ft d

HEIGHT OR LENGTH OF SCREEN 1ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Wooden box into river.

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/20/79

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col355.0L

PUMP

NAME

ADDRESS

PHONE

DIVERSION LOCATION

STATE WA COUNTY Franklin TOWN Mesa

RIVER Columbia RIVER MILE 355.0 BANK L QUAD.MAP Walla Walla SEC T 12N R 28E

CDL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS -35ft

LOCATION FROM PUMPS TO SCREENS -223ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

40

6

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Perforated plate

SCREEN CODE Cy2

DISTANCE FROM SHORELINE 226ft

SHORE DIST. CODE +

SUBMERGENCE

TYPE OF MESH MATERIAL Perforated

MESH SIZE 0.25in

WIRE SIZE

PERFORATION SIZE 0.25"

HOLES/INCH 4

WIDTH OR DIAMETER OF SCREEN 1ft d

HEIGHT OR LENGTH OF SCREEN 2ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good.

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN Small fish species unidentified.

INVENTORY NO. Col378.OR

PUMP

NAME Rockwell 181 D

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Benton

TOWN Hanford

RIVER Columbia RIVER MILE 378.0

BANK R QUAD.MAP

SEC T R

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE

PERMIT DATE

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Vault

LOCATION FROM SHORELINE TO PUMPS +/-

LOCATION FROM PUMPS TO SCREENS +/-

NUMBER

HP

SIZE OF

TYPE OF

REMARKS This site is only operated once a week. Emergency

OF PUMPS

EACH

DISCHARGE

DISCHARGE

supply

1

450

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Traveling screens

SCREEN CODE Ts4 DISTANCE FROM SHORELINE

SHORE DIST. CODE +/-

SUBMERGENCE TYPE OF MESH MATERIAL Wire

MESH SIZE 0.75x1.5 WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 14ft7in HEIGHT OR LENGTH OF SCREEN 57ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING 4in

TRASH FENCE

MESH Not visible from trash racks.

RELATION TO SCREEN 10ft in front

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/05/79 TIME 1430

FISH BYPASS SYSTEM

FISH SPECIES SEEN Richardsonius sp.

INVENTORY NO. Col379.BR

PUMP

NAME Atomic Energy Commission

ADDRESS Hanford Operations Box550, Richland, WA 99352

PHONE

DIVERSION LOCATION

STATE WA COUNTY Benton

TOWN Hanford

RIVER Columbia RIVER MILE 379.8

BANK R QUAD.MAP

SEC T R

COL.R.STUDY REPT.NO. 34

SITE NO. Mc-84

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE 08/15/58

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Reactor Cooling

PERMIT DATE

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Vault

LOCATION FROM SHORELINE TO PUMPS +/-

LOCATION FROM PUMPS TO SCREENS +/-

NUMBER

HP

SIZE OF

TYPE OF

REMARKS "N" Reactor

OF PUMPS

EACH

DISCHARGE

DISCHARGE

4

66

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 6 Traveling screens

SCREEN CODE Ts4 DISTANCE FROM SHORELINE

SHORE DIST. CODE +/-

SUBMERGENCE TYPE OF MESH MATERIAL Wire

MESH SIZE 0.125in WIRE SIZE 15

PERFORATION SIZE

HOLES/INCH 5 WIDTH OR DIAMETER OF SCREEN 10ft HEIGHT OR LENGTH OF SCREEN 61ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68 WATER ELEVATION

FLOW READINGS Max1.40

AMBIENT STREAM VELOCITY 0.3

INSPECTION DATE 09/06/79 TIME 1200

FISH BYPASS SYSTEM 16in pipe returning to river-Fish windows.

FISH SPECIES SEEN

INVENTORY NO. Col380.OR

PUMP

NAME WPPS HGP

DIVERSION LOCATION

STATE WA COUNTY Benton

COL.R.STUDY REPT.NO.

ADDRESS ,,

TOWN Hanford
SITE NO.

RIVER Columbia RIVER MILE 380.0
C OF E PUB. NOTICE
C OF E PERMIT NO.

PHONE

BANK R QUAD.MAP
DATE
DATE

SEC T R

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Vault

LOCATION FROM SHORELINE TO PUMPS +-

LOCATION FROM PUMPS TO SCREENS +-

NUMBER
OF PUMPS

HP
EACH

SIZE OF
DISCHARGE
(INCHES)

TYPE OF
DISCHARGE

REMARKS

4

2250

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 4 Traveling screens

SCREEN CODE Ts4 DISTANCE FROM SHORELINE

SHORE DIST. CODE +-

SUBMERGENCE TYPE OF MESH MATERIAL Wire

MESH SIZE 0.125in WIRE SIZE 14

PERFORATION SIZE

HOLES/INCH 6 WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME Good

BAR SPACING 3.25in TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS Good

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68 WATER ELEVATION 10ft

FLOW READINGS Max 1.45

AMBIENT STREAM VELOCITY Max 0.15

INSPECTION DATE 09/06/79 TIME 1200

FISH BYPASS SYSTEM Pipe returns to river; Fish windows.

FISH SPECIES SEEN

INVENTORY NO. Col381.9R

PUMP

NAME Rockwell 181 K East

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Benton

TOWN Hanford

RIVER Columbia RIVER MILE 381.9

BANK R QUAD.MAP

SEC T R

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE
C OF E PERMIT NO.

DATE
DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Vault

LOCATION FROM SHORELINE TO PUMPS +-

LOCATION FROM PUMPS TO SCREENS +-

NUMBER
OF PUMPS

HP
EACH

SIZE OF
DISCHARGE
(INCHES)

TYPE OF
DISCHARGE

REMARKS The one submersible pump operates one day per month

1

600

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 2 Traveling screens

SCREEN CODE Ts4 DISTANCE FROM SHORELINE

SHORE DIST. CODE +-

SUBMERGENCE TYPE OF MESH MATERIAL Wire

MESH SIZE 0.25x1.5 WIRE SIZE 16

PERFORATION SIZE

HOLES/INCH 14ft6in WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING 4in TRASH FENCE

MESH Not visible from trash rack; no access.

RELATION TO SCREEN 10ft in front

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/05/79 TIME 1330

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col382.1R

PUMP

NAME Rockwell 181 K West

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Benton

TOWN Hanford

RIVER Columbia RIVER MILE 382.1 BANK R QUAD.MAP

SEC T R

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUMP INFORMATION

TYPE OF STRUCTURE Vault

LOCATION FROM SHORELINE TO PUMPS +-

LOCATION FROM PUMPS TO SCREENS +-

NUMBER
OF PUMPS

HP
EACH

SIZE OF
DISCHARGE
(INCHES)

TYPE OF
DISCHARGE

REMARKS

6

1500

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 2 Traveling screens

SCREEN CODE Ts4 DISTANCE FROM SHORELINE

SHORE DIST. CODE +-

SUBMERGENCE TYPE OF MESH MATERIAL Wire

MESH SIZE 0.25X1.5 WIRE SIZE 16

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 14ft6in

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING 4in

TRASH FENCE

MESH The west screen has holes in the panels.

RELATION TO SCREEN 10ft in front

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F 68 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/05/79 TIME 1330

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col383.5R

PUMP

NAME Rockwell 181 B

ADDRESS Hanford,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Benton

TOWN Hanford

RIVER Columbia RIVER MILE 378.0 BANK R QUAD.MAP

SEC T R

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE

ACRES IRRIGATED

OTHER Supplies 200 Area.

ACCESS ROUTE

PUMP INFORMATION

TYPE OF STRUCTURE Vault

LOCATION FROM SHORELINE TO PUMPS +-

LOCATION FROM PUMPS TO SCREENS +

NUMBER
OF PUMPS

HP
EACH

SIZE OF
DISCHARGE
(INCHES)

TYPE OF
DISCHARGE

REMARKS

11

600

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Traveling screens

SCREEN CODE Ts4 DISTANCE FROM SHORELINE

SHORE DIST. CODE +-

SUBMERGENCE TYPE OF MESH MATERIAL Wire

MESH SIZE 0.75X1.5 WIRE SIZE 6

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 11ft6in

HEIGHT OR LENGTH OF SCREEN 57ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING 3x1.5' TRASH FENCE

MESH Not visible from trash rack; no access.

RELATION TO SCREEN 10ft in front

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION Sand in front

SCOURING

SURFACE WATER TEMP

DEGREE F 68 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/05/79 TIME 1200

FISH BYPASS SYSTEM

FISH SPECIES SEEN Richardsonius sp.

INVENTORY NO. Col397.1L

PUMP

NAME Berry & Stark Allen Farms ADDRESS ,, PHONE
 DIVERSION LOCATION
 STATE WA COUNTY Grant TOWN RIVER Columbia RIVER MILE 397.1 BANK L QUAD.MAP SEC 35 T 13N R 23E
 COL.R.STUDY REPT.NO. 34 SITE NO. PR-3-4 C OF E PUB. NOTICE None DATE
 C OF E PERMIT NO. 071-0YB-1-002178 DATE 12/23/74

WATER RIGHT

WATER RESOURCE AREA WA36 A APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE 05/31/74
 QUANTITY-CFS 38.77 ACRE FT/YR 6996 PURPOSE Irrigation/Environmental Quality PERMIT DATE 09/26/75 ACRES IRRIGATED 1999
 OTHER Water Rights Include A,B Now belongs to Allen Farms

ACCESS ROUTE

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS ++35ft	TYPE OF STRUCTURE
NUMBER OF PUMPS	Pier
HP EACH	
SIZE OF DISCHARGE (INCHES)	
TYPE OF DISCHARGE	
REMARKS	All pipes go into a 2.5ft pipe. Water Right B Prior Date 04/15/77 Acres 1999 CFS 38.77

FISH SCREEN

PUMP NO. 1

SCREEN DESCRIPTION

TYPE OF SCREEN Panels rectangular box SCREEN CODE P1 DISTANCE FROM SHORELINE +31ft SHORE DIST. CODE ++
 SUBMERGENCE 12ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.125in WIRE SIZE 17 PERFORATION SIZE
 HOLES/INCH 5in WIDTH OR DIAMETER OF SCREEN 4ft HEIGHT OR LENGTH OF SCREEN 22ft
 SCREEN CONDITION TRASH RACK TRASH FENCE
 FRAME BAR SPACING RELATION TO SCREEN
 MESH Open along frame on shoreside & river down stream side
 SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION 11ft
 FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE 08/29/79 TIME 1400
 FISH BYPASS SYSTEM FISH SPECIES SEEN

FISH SCREEN

PUMP NO. 2

SCREEN DESCRIPTION

TYPE OF SCREEN Panels rectangular box SCREEN CODE P1 DISTANCE FROM SHORELINE 31ft SHORE DIST. CODE ++
 SUBMERGENCE 12ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.125in WIRE SIZE 17 PERFORATION SIZE
 HOLES/INCH 5in WIDTH OR DIAMETER OF SCREEN 4ft HEIGHT OR LENGTH OF SCREEN 22ft
 SCREEN CONDITION TRASH RACK TRASH FENCE
 FRAME Good BAR SPACING RELATION TO SCREEN
 MESH Downriver side&front; upriver side away from frame.
 SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION 11ft
 FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE 08/29/79 TIME 1400
 FISH BYPASS SYSTEM FISH SPECIES SEEN

FISH SCREEN

PUMP NO. 3

SCREEN DESCRIPTION

TYPE OF SCREEN Panels rectangular box SCREEN CODE P1 DISTANCE FROM SHORELINE 36ft SHORE DIST. CODE ++
 SUBMERGENCE 12ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.125in WIRE SIZE 17 PERFORATION SIZE
 HOLES/INCH 5 WIDTH OR DIAMETER OF SCREEN 4ft HEIGHT OR LENGTH OF SCREEN 22ft
 SCREEN CONDITION TRASH RACK TRASH FENCE
 FRAME Good BAR SPACING RELATION TO SCREEN
 MESH Far side toward middle of river split.
 SEALS Good.

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION 11ft
 FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE 08/29/79 TIME 1400
 FISH BYPASS SYSTEM FISH SPECIES SEEN

FISH SCREEN

PUMP NO. 4

SCREEN DESCRIPTION

TYPE OF SCREEN Panels rectangular box SCREEN CODE P1 DISTANCE FROM SHORELINE 36ft SHORE DIST. CODE ++
 SUBMERGENCE 12ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.125in WIRE SIZE 17 PERFORATION SIZE
 HOLES/INCH 5 WIDTH OR DIAMETER OF SCREEN 4ft HEIGHT OR LENGTH OF SCREEN 22ft
 SCREEN CONDITION TRASH RACK TRASH FENCE
 FRAME Good BAR SPACING RELATION TO SCREEN
 MESH Good
 SEALS Good

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F 68 WATER ELEVATION
 FLOW READINGS None AMBIENT STREAM VELOCITY 0 INSPECTION DATE 08/29/79 TIME 1400
 FISH BYPASS SYSTEM FISH SPECIES SEEN

FISH SCREEN

PUMP NO. 5

SCREEN DESCRIPTION

TYPE OF SCREEN Panels rectangular box SCREEN CODE P1 DISTANCE FROM SHORELINE 36ft SHORE DIST. CODE ++
 SUBMERGENCE 12ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.125in WIRE SIZE 17 PERFORATION SIZE
 HOLES/INCH 5 WIDTH OR DIAMETER OF SCREEN 4ft HEIGHT OR LENGTH OF SCREEN 22ft
 SCREEN CONDITION TRASH RACK TRASH FENCE
 FRAME Good BAR SPACING RELATION TO SCREEN
 MESH Good
 SEALS Good

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION 11ft
 FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE TIME
 FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col398.1L

PUMP

NAME Priest Rapids Orcharads

ADDRESS 43 Orchard Drive, Mattawa, WA

PHONE

DIVERSION LOCATION

STATE WA COUNTY Grant

TOWN Mattawa

RIVER Columbia RIVER MILE 398.1

BANK L QUAD. MAP Walla Walla SEC

T 14N R 22E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PLD

PUMP INFORMATION

TYPE OF STRUCTURE 2 pipes

LOCATION FROM SHORELINE TO PUMPS -51ft and 49ft

LOCATION FROM PUMPS TO SCREENS +93ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS Pipes enter 2 seperate pumps

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

75

5

1

50

5

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 2 Boxes

SCREEN CODE Bx2 DISTANCE FROM SHORELINE 42ft

SHORE DIST. CODE +

SUBMERGENCE 5ft TYPE OF MESH MATERIAL Expand metal MESH SIZE 0.25in WIRE SIZE

PERFORATION SIZE

HOLES/INCH

WIDTH OR DIAMETER OF SCREEN 1ft8in

HEIGHT OR LENGTH OF SCREEN 1ft8in

SCREEN CONDITION

TRASH RACK

FRAME Good

BAR SPACING

TRASH FENCE

MESH Good New

RELATION TO SCREEN

SEALS Good

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 08/29/79 TIME 1500

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col442.4L

PUMP

NAME M.V. Mansfield

ADDRESS ,Quincy, WA 98848

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Crescent

RIVER Columbia RIVER MILE 442.4

BANK L QUAD. MAP Wenatchee

SEC 13 T 20N R 22E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PLD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Ground

LOCATION FROM SHORELINE TO PUMPS -6ft

LOCATION FROM PUMPS TO SCREENS +56ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

5

1.5

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Wire.

SCREEN CODE Ep2 DISTANCE FROM SHORELINE 50ft

SHORE DIST. CODE +

SUBMERGENCE 4ft TYPE OF MESH MATERIAL Wire. MESH SIZE 0.25in WIRE SIZE

PERFORATION SIZE

HOLES/INCH

WIDTH OR DIAMETER OF SCREEN 3in d

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good.

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col446.8L

PUMP

NAME Columbia River Orchard Found. ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas TOWN E.Wenatche RIVER Columbia RIVER MILE 446.8 BANK L QUAD.MAP Wenatchee SEC 33 T 21N R 22E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO. 071-0-OYB-1-004398

DATE 02/22/78

WATER RIGHT

WATER RESOURCE AREA WA44

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Cement pltfm

LOCATION FROM SHORELINE TO PUMPS -27ft

LOCATION FROM PUMPS TO SCREENS +74ft

REMARKS Pumped into pool then pumped uphill.

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	20	5	Pipe
1	20	8	Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Stainless steel SCREEN CODE Cy2 DISTANCE FROM SHORELINE 47ft SHORE DIST. CODE +

SUBMERGENCE 8ft TYPE OF MESH MATERIAL Perforated MESH SIZE WIRE SIZE PERFORATION SIZE 0.125

HOLES/INCH 4 WIDTH OR DIAMETER OF SCREEN 1ft4in d HEIGHT OR LENGTH OF SCREEN 8ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH New.

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/26/79

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col448.8R

PUMP

NAME ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Chelan TOWN RIVER Columbia RIVER MILE 448.8 BANK R QUAD.MAP Wenatchee SEC 32 T 21N R 22E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Ground

LOCATION FROM SHORELINE TO PUMPS -40ft

LOCATION FROM PUMPS TO SCREENS +60ft

REMARKS

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	20	2.5	Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Wire on the end of the pipe SCREEN CODE Ep2 DISTANCE FROM SHORELINE 20ft SHORE DIST. CODE +

SUBMERGENCE 8ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.5in WIRE SIZE PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 10in d HEIGHT OR LENGTH OF SCREEN 9in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Rusted. Big hole in it.

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT Weeds.

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/26/79

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col448.9L

PUMP

NAME Columbia River Orchard Found. ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas TOWN E. Wenatchee RIVER Columbia RIVER MILE 448.9 BANK L QUAD.MAP Wenatchee SEC 33 T 21N R 22E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA44

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

PERMIT DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation.

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Pier Vault

LOCATION FROM SHORELINE TO PUMPS +=

LOCATION FROM PUMPS TO SCREENS +=8ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

1

20

5.5

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Panel

SCREEN CODE P1 DISTANCE FROM SHORELINE 8ft

SHORE DIST. CODE ++

SUBMERGENCE 2ft TYPE OF MESH MATERIAL Wire

MESH SIZE

WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 5ft

HEIGHT OR LENGTH OF SCREEN 2ft6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING 6in

TRASH FENCE

MESH Solid Rust. Bad Shape.

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 17ft

FLOW READINGS Low

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/26/79

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col449.5RA

PUMP

NAME

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wenatchee

RIVER Columbia RIVER MILE 449.5

BANK R QUAD.MAP Wenatchee

SEC 32 T 21N R 22E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

PERMIT DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Metal

LOCATION FROM SHORELINE TO PUMPS -35ft

LOCATION FROM PUMPS TO SCREENS +75ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

1

50

4

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 40ft

SHORE DIST. CODE +

SUBMERGENCE 7ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.25in

WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Rusted Shut - Large hole in end.

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/26/79

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col449.5R8

PUMP

NAME

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wentachee

RIVER Columbia RIVER MILE 449.5

BANK R QUAD.MAP Wentachee

SEC 32 T 21N R 22E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS -20ft

LOCATION FROM PUMPS TO SCREENS +63ft

NUMBER
OF PUMPS

HP
EACH

SIZE OF
DISCHARGE
(INCHES)

TYPE OF
DISCHARGE

REMARKS

1

75

4

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 43ft

SHORE DIST. CODE +

SUBMERGENCE 7ft TYPE OF MESH MATERIAL

MESH SIZE 1.5in

WIRE SIZE 1

PERFORATION SIZE

HOLES/INCH

WIDTH OR DIAMETER OF SCREEN 1ft

HEIGHT OR LENGTH OF SCREEN 2ft

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

RELATION TO SCREEN

MESH Good.

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col449.6L

PUMP

NAME Columbia River Orchard Founda ADDRESS ,,

PHONE 509-884-4585

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN E. Wenatch

RIVER Columbia RIVER MILE 449.6

BANK L QUAD.MAP Wenatchee

SEC 33 T 21N R 22E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA44

APPLICATION NO.

PERMIT NO.
PERMIT DATE 08/22/77

CERTIFICATE NO.

PRIORITY DATE 01/07/77

QUANTITY-CFS

8.0 ACRE FT/YR

2048 PURPOSE Irrigation

ACRES IRRIGATED 400

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Vault

LOCATION FROM SHORELINE TO PUMPS +

LOCATION FROM PUMPS TO SCREENS ++10ft

NUMBER
OF PUMPS

HP
EACH

SIZE OF
DISCHARGE
(INCHES)

TYPE OF
DISCHARGE

REMARKS

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 2 Panels.

SCREEN CODE P1 DISTANCE FROM SHORELINE

SHORE DIST. CODE ++

SUBMERGENCE 22ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.25in

WIRE SIZE

PERFORATION SIZE

HOLES/INCH

WIDTH OR DIAMETER OF SCREEN 4ft

HEIGHT OR LENGTH OF SCREEN 2ft

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING 6in

RELATION TO SCREEN 4in

MESH Bad. Rusted. 1 Panel concave, 2 panel the side bent.

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/26/79

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col449.9RA

PUMP

NAME

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wenatchee RIVER Columbia RIVER MILE 449.9 BANK R QUAD.MAP Wenatchee

SEC 32 T 21N R 22E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO. WA40

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation.

ACRES IRRIGATED

OTHER Open slits 6in long 0.25in wide- two rows.

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS -40ft

LOCATION FROM PUMPS TO SCREENS +97ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

1

30

2.5

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder (Window Screen).

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 57ft

SHORE DIST. CODE +

SUBMERGENCE 7ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.25in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 11in d

HEIGHT OR LENGTH OF SCREEN 3ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Bad Shape.

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/26/79 TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col449.9RB

PUMP

NAME

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wenatchee RIVER Columbia RIVER MILE 449.9 BANK R QUAD.MAP Wenatchee

SEC 32 T 21N R 22E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA40

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation.

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS -40ft

LOCATION FROM PUMPS TO SCREENS +81ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

1

20

1.5

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Perforated plate.

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 41ft

SHORE DIST. CODE +

SUBMERGENCE 7ft TYPE OF MESH MATERIAL Perforated

MESH SIZE WIRE SIZE

PERFORATION SIZE 0.25"

HOLES/INCH 3 WIDTH OR DIAMETER OF SCREEN 10in d

HEIGHT OR LENGTH OF SCREEN 9ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good.

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/26/79 TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col449.9RC

PUMP

NAME

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wenatchee

RIVER Columbia RIVER MILE 449.9

BANK R QUAD.MAP Wenatchee

SEC 32 T 21N R 22E

CDL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS -30ft

LOCATION FROM PUMPS TO SCREENS +87ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

30

2.5

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Space heater.

SCREEN CODE Ep2

DISTANCE FROM SHORELINE 57ft

SHORE DIST. CODE +

SUBMERGENCE 14ft

TYPE OF MESH MATERIAL Wire

MESH SIZE 1.5x1in

WIRE SIZE 8

PERFORATION SIZE

Holes/INCH WIDTH OR DIAMETER OF SCREEN 8in d

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT Plugged with weeds.

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS 0.5

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/26/79

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN Gasterosteus aculeatus-

INVENTORY NO. Col450.2L

PUMP

NAME Howard T. Sachs

ADDRESS ,Rock Island,WA 98850

PHONE 509-884-4815

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN E. Wenatch

RIVER Columbia RIVER MILE 450.2

BANK L QUAD.MAP Wenatchee

SEC 21 T 21N R 22E

CDL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA44 A

APPLICATION NO. 23613

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE 01/13/72

QUANTITY-CFS 2.2

ACRE FT/YR 484.0

PURPOSE Irrigation

ACRES IRRIGATED 110.0

OTHER Water Rights Include A,B

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Pipe

LOCATION FROM SHORELINE TO PUMPS +40ft rock outcrop

LOCATION FROM PUMPS TO SCREENS +98ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

30

8

Pipe

Water Right B Meyers Hele Irr/Stock/Gen S.1-5.1
670-50 Prior Date 07/17/74 Perm Date 12/29/75 Acre
s 230 CFS 5.1 AC/FT 670 Rock out crop & pipe.

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Wire cylinder

SCREEN CODE Cy2

DISTANCE FROM SHORELINE 58ft

SHORE DIST. CODE +

SUBMERGENCE 12ft

TYPE OF MESH MATERIAL Hardware

MESH SIZE 0.25in

WIRE SIZE

PERFORATION SIZE

Holes/INCH WIDTH OR DIAMETER OF SCREEN 1ft7in d

HEIGHT OR LENGTH OF SCREEN 1ft6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Rusty. Rusted shut on top.

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. C01450.5LA

PUMP

NAME Billy A. Nelson

ADDRESS Rt. 5 Box 5236, Wenatchee, WA 98801

PHONE 884-8107

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN E. Wenatch RIVER Columbia RIVER MILE 450.5

BANK L QUAD.MAP Wenatchee SEC 21 T 21N R 22E

CDL.R.STUDY REPT.NO. 34 SITE NO. W-39

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO. 071-DVB-1-004569

DATE 05/26/78

WATER RIGHT

WATER RESOURCE AREA WA44 APPLICATION NO.

PERMIT NO. PERMIT DATE 07/08/76

CERTIFICATE NO.

PRIORITY DATE 01/23/76

QUANTITY-CFS 1.4 ACRE FT/YR 280.0 PURPOSE Irrigation

ACRES IRRIGATED 70

OTHER By pass system for trash.

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Ground

LOCATION FROM SHORELINE TO PUMPS -30ft

LOCATION FROM PUMPS TO SCREENS +159ft

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE	REMARKS
1	20	8	pipe	

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 129ft

SHORE DIST. CODE +

SUBMERGENCE 8ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.375in WIRE SIZE 6

PERFORATION SIZE

HOLES/INCH 2 WIDTH OR DIAMETER OF SCREEN 1ft2in d HEIGHT OR LENGTH OF SCREEN 2ft6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. C01450.5LB

PUMP

NAME Billy A. Nelson

ADDRESS Route 5 Box 5236, Wenatchee, WA 98801

PHONE

DIVERSION LOCATION

STATE COUNTY

TOWN

RIVER

RIVER MILE

BANK

QUAD.MAP

SEC

T

R

CDL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO. PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER By pass system barrel.

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE

LOCATION FROM SHORELINE TO PUMPS -40ft

LOCATION FROM PUMPS TO SCREENS +120ft

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE	REMARKS
1	10	8	Pipe	

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy2 DISTANCE FROM SHORELINE

SHORE DIST. CODE +

SUBMERGENCE 8ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.625in WIRE SIZE 5

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 1ft d HEIGHT OR LENGTH OF SCREEN 2ft6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col455.6R

PUMP

NAME Aluminum Co. of America

ADDRESS P.O. Box 221, Wenatchee, WA 98801

PHONE 509-663-5111

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Malaga

RIVER Columbia RIVER MILE 455.6

BANK R QUAD.MAP Wenatchee

SEC 25 T 22N R 22E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Industrial

ACRES IRRIGATED

OTHER 45ft from opening to screens.

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Cement inlet

LOCATION FROM SHORELINE TO PUMPS +-65ft

LOCATION FROM PUMPS TO SCREENS +-7ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

5

300

12

Pipe

2

20

12

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 2 Traveling screens

SCREEN CODE Ts4 DISTANCE FROM SHORELINE 65ft

SHORE DIST. CODE +-

SUBMERGENCE 37ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.25in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 5ft6in

HEIGHT OR LENGTH OF SCREEN 37ft

SCREEN CONDITION

TRASH RACK

FRAME Good

BAR SPACING 1in TRASH FENCE

MESH Good

RELATION TO SCREEN 7ft10in in front

SEALS

DEBRIS LOCATION AND AMOUNT Sediment all inside.

SEDIMENTATION 6inch or more deep

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 5ft2in

FLOW READINGS Max0.03

AMBIENT STREAM VELOCITY 0.0

INSPECTION DATE 08/16/79 TIME 1400

FISH BYPASS SYSTEM None

FISH SPECIES SEEN

INVENTORY NO. Col457.2L

PUMP

NAME Tony Gallagher

ADDRESS Rt 5 Box 5205, East Wenatchee, WA 98801

PHONE 509-884-4306

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Rock Is.

RIVER Columbia RIVER MILE 457.2

BANK L QUAD.MAP Wenatchee

SEC 26 T 22N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER Small foot valve.

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS *

LOCATION FROM PUMPS TO SCREENS

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

5

2

Pvc

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE *

SHORE DIST. CODE *

SUBMERGENCE 6ft TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.125in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2in d

HEIGHT OR LENGTH OF SCREEN 3in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col457.6R

PUMP

NAME Morrill Asphalt & Paving Co. ADDRESS P.O. Box 99, Wenatchee, WA 98801

PHONE 509-663-2605

DIVERSION LOCATION

STATE WA COUNTY Chelan TOWN Malaga RIVER Columbia RIVER MILE 457.6 BANK R QUAD. MAP Wenatchee SEC 26 T 22N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Wood/Concret

LOCATION FROM SHORELINE TO PUMPS

LOCATION FROM PUMPS TO SCREENS

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

50

2

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Unable to locate screen.

SCREEN CODE U

DISTANCE FROM SHORELINE

SHORE DIST. CODE

SUBMERGENCE TYPE OF MESH MATERIAL

MESH SIZE

WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR

LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

RELATION TO SCREEN

MESH

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col457.7LA

PUMP

NAME L. P. Adams

ADDRESS 5205 Rt. 5, East Wenatchee, WA 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas TOWN Rock Is. RIVER Columbia RIVER MILE 457.7 BANK L QUAD. MAP Wenatchee SEC 26 T 22N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER Pump on a wooden frame--foot valve

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS

LOCATION FROM PUMPS TO SCREENS

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

5

2

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE

SHORE DIST. CODE +

SUBMERGENCE TYPE OF MESH MATERIAL

MESH SIZE 0.125in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

RELATION TO SCREEN

MESH

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col457.7LB

PUMP

NAME John Douglas

ADDRESS 5205 M Rt. 5, East Wenatchee, WA 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Rock Is.

RIVER Columbia RIVER MILE 457.7

BANK L QUAD. MAP Wenatchee

SEC 26 T 22N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER By a trailer house--foot valve

ACCESS ROUTE

PLD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Wood

LOCATION FROM SHORELINE TO PUMPS =

LOCATION FROM PUMPS TO SCREENS

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

5

2

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE

SHORE DIST. CODE +

SUBMERGENCE

TYPE OF MESH MATERIAL

MESH SIZE 0.125in WIRE SIZE

PERFORATION SIZE

HOLES/INCH

WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

RELATION TO SCREEN

MESH

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

FLOW READINGS

FISH BYPASS SYSTEM

SCOURING

AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

INSPECTION DATE

TIME

FISH SPECIES SEEN

INVENTORY NO. Col457.7LC

PUMP

NAME Rushing

ADDRESS 5205 Rt. 5, East Wenatchee, WA 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Rock Is.

RIVER Columbia RIVER MILE 457.7

BANK L QUAD. MAP Wenatchee

SEC 26 T 22N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER By trailer house--foot valve

ACCESS ROUTE

PLD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Wood

LOCATION FROM SHORELINE TO PUMPS =

LOCATION FROM PUMPS TO SCREENS

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

1.5

2

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot Valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE

SHORE DIST. CODE +

SUBMERGENCE

TYPE OF MESH MATERIAL

MESH SIZE 0.03in WIRE SIZE

PERFORATION SIZE

HOLES/INCH

WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

RELATION TO SCREEN

MESH

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

FLOW READINGS

FISH BYPASS SYSTEM

SCOURING

AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

INSPECTION DATE

TIME

FISH SPECIES SEEN

INVENTORY NO. Col457.7LD

PUMP

NAME Robert E. Richardson

ADDRESS 5202 Rt. 5, East Wenatchee, WA 98801

PHONE 509-884-3140

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Rock Is.

RIVER Columbia RIVER MILE 457.7 BANK L QUAD. MAP Wenatchee

SEC 26 T 22N R 21E

CDL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Lawn Irrigation

ACRES IRRIGATED

OTHER Small blue pump next to dock pvc pipe--foot valve

PUD Douglas County

ACCESS ROUTE

TYPE OF STRUCTURE Wooden

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS

LOCATION FROM PUMPS TO SCREENS

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

1.5

2

Pvc

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE

SHORE DIST. CODE +

SUBMERGENCE TYPE OF MESH MATERIAL

MESH SIZE 0.125in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col457.BL

PUMP

NAME Richard Hurst

ADDRESS Rt. 5 B 521, East Wenatchee, WA 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Rock Is.

RIVER Columbia RIVER MILE 457.8 BANK L QUAD. MAP Wenatchee

SEC 26 T 22N R 21E

CDL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS -

LOCATION FROM PUMPS TO SCREENS +

NUMBER

HP

SIZE OF

TYPE OF

REMARKS Located in a backwater area.

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

10

2

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE

SHORE DIST. CODE +

SUBMERGENCE TYPE OF MESH MATERIAL

MESH SIZE 0.25in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col458.5R

PUMP

NAME C.R. Dean

ADDRESS Rt 1 Box 12, Malaga, WA 98828

PHONE

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Malaga

RIVER Columbia RIVER MILE 458.5

BANK R QUAD.MAP Wenatchee

SEC 26 T 22N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED 15

OTHER

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Trolley

LOCATION FROM SHORELINE TO PUMPS =

LOCATION FROM PUMPS TO SCREENS + 20ft

NUMBER
OF PUMPS

HP
EACH

SIZE OF
DISCHARGE
(INCHES)

TYPE OF
DISCHARGE

REMARKS

1

25

3

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cone

SCREEN CODE Co2 DISTANCE FROM SHORELINE 0

SHORE DIST. CODE +

SUBMERGENCE 12ft TYPE OF MESH MATERIAL Wire

MESH SIZE .25*slts WIRE SIZE 4

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6.5in d

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col458.9R

PUMP

NAME Robert Bradshaw Dr.

ADDRESS ,,WA

PHONE

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Malaga

RIVER Columbia RIVER MILE 458.9

BANK R QUAD.MAP Wenatchee

SEC 27 T 22N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS -20ft

LOCATION FROM PUMPS TO SCREENS +20ft

NUMBER
OF PUMPS

HP
EACH

SIZE OF
DISCHARGE
(INCHES)

TYPE OF
DISCHARGE

REMARKS

1

15

3

Pvc

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 20ft

SHORE DIST. CODE +

SUBMERGENCE 11ft TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.375in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 7.5in d

HEIGHT OR LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col459.3RA

PUMP

NAME Tom Smith

ADDRESS P.O. Box 97, Malaga, WA 98828

PHONE 509-663-6186

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Malaga

RIVER Columbia RIVER MILE 459.3

BANK R QUAD.MAP Wenatchee

SEC 28 T 22N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER Same locations Wenatchee Sand & Gravel

PUD Chelan County

ACCESS ROUTE

PUMP INFORMATION

TYPE OF STRUCTURE Rock pile

LOCATION FROM SHORELINE TO PUMPS -33ft

LOCATION FROM PUMPS TO SCREENS +69ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS Pipe goes up the hill.

OF PUMPS

EACH

DISCHARGE

DISCHARGE

1

5

2

Pvc pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 33ft

SHORE DIST. CODE +

TYPE OF SCREEN Cylinder

SUBMERGENCE 10ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.25in WIRE SIZE 14

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 5in d

HEIGHT OR LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY 0.75 cfs

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col459.3RB

PUMP

NAME Wenatchee Sand & Gravel

ADDRESS P.O. Box 118, Malaga, WA 98828

PHONE

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Malaga

RIVER Columbia RIVER MILE 459.3

BANK R QUAD.MAP Wenatchee

SEC 27 T 22N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA40

APPLICATION NO.

PERMIT NO.
PERMIT DATE 07/29/75

CERTIFICATE NO.

PRIORITY DATE 04/26/74

QUANTITY-CFS

2.0 ACRE FT/YR

PURPOSE Gravel wash

ACRES IRRIGATED

OTHER Contact Mr. Selland

PUD Chelan County

ACCESS ROUTE

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS -33ft

LOCATION FROM PUMPS TO SCREENS +64ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

1

50

6.5

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 33ft

SHORE DIST. CODE +

TYPE OF SCREEN Cylinder

SUBMERGENCE 10ft TYPE OF MESH MATERIAL Expand metal

MESH SIZE 0.5in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2in d

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col459.SR
PUMP

NAME Robert Jeffrey
DIVERSION LOCATION
STATE WA COUNTY Chelan
CDL.R.STUDY REPT.NO.

ADDRESS W. 510 Sunny Rd., Wenatchee, WA 98801

PHONE 509-663-5988

TOWN
SITE NO.

RIVER Columbia RIVER MILE 459.5 BANK R QUAD.MAP Wenatchee SEC 28 T 22N R 21E
C OF E PUB. NOTICE DATE
C OF E PERMIT NO. DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER Small pump.

PLD Chelan County

ACCESS ROUTE

PUMP INFORMATION

TYPE OF STRUCTURE

LOCATION FROM SHORELINE TO PUMPS -30ft

LOCATION FROM PUMPS TO SCREENS +50ft

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	10	2.5	Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 20ft

SHORE DIST. CODE +

SUBMERGENCE 6ft TYPE OF MESH MATERIAL Cast iron

MESH SIZE 0.5in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 0.5in d

HEIGHT OR LENGTH OF SCREEN 3in

SCREEN CONDITION

TRASH RACK
BAR SPACING TRASH FENCE
RELATION TO SCREEN

FRAME

MESH

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

FLOW READINGS

FISH BYPASS SYSTEM

SCOURING
AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F WATER ELEVATION
INSPECTION DATE TIME

FISH SPECIES SEEN

INVENTORY NO. Col460.1RA

PUMP

NAME Paul H. Hurd

ADDRESS Rt. 1 Box 102, Malaga, WA 98828

PHONE 509-662-5432

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Malaga

RIVER Columbia RIVER MILE 460.1

BANK R QUAD.MAP Wenatchee SEC 27 T 22N R 21E

CDL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

0 ACRE FT/YR

0 PURPOSE Irrigation

ACRES IRRIGATED 0

OTHER Small pump on an iron frame into river. Wooden pump house behind pump out over water.

PLD Chelan County

ACCESS ROUTE

PUMP INFORMATION

TYPE OF STRUCTURE Iron frame

LOCATION FROM SHORELINE TO PUMPS =

LOCATION FROM PUMPS TO SCREENS +Varies

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 2ft

SHORE DIST. CODE -

SUBMERGENCE 5ft TYPE OF MESH MATERIAL Cast iron

MESH SIZE 0.375in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6in d

HEIGHT OR LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK
BAR SPACING TRASH FENCE
RELATION TO SCREEN

FRAME

MESH

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

FLOW READINGS

FISH BYPASS SYSTEM

SCOURING
AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F 68 WATER ELEVATION
INSPECTION DATE TIME

FISH SPECIES SEEN

INVENTORY NO. Col460.1RB

PUMP

NAME Melvin L. Smith

ADDRESS Rt 1 Box 103, Malaga, WA 98828

PHONE 509-663-7389

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Malaga

RIVER Columbia RIVER MILE 460.1

BANK R QUAD. MAP Wenatchee

SEC 27 T 22N R 21E

CDL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE
C OF E PERMIT NO.

DATE
DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS 0 ACRE FT/YR 0 PURPOSE Irrigation

ACRES IRRIGATED 0

OTHER Small pump on a floating dock tied to rocks. Pipe goes up hill.

PUD Chelan County

ACCESS ROUTE

PUMP INFORMATION

TYPE OF STRUCTURE Drums

LOCATION FROM SHORELINE TO PUMPS +Floating

LOCATION FROM PUMPS TO SCREENS +3ft

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	0.75	2	Pipe

REMARKS

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 3ft

SHORE DIST. CODE +

SUBMERGENCE TYPE OF MESH MATERIAL Cast Iron

MESH SIZE 0.25in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2.5in d

HEIGHT OR LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

WATER ELEVATION

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col460.2L

PUMP

NAME Riley Milner

ADDRESS 1414 Tye St., East Wenatchee, WA 98801

PHONE 509-884-8750

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN E. Wen.

RIVER Columbia RIVER MILE 460.2

BANK L QUAD. MAP Wenatchee

SEC 21 T 22N R 21E

CDL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE
C OF E PERMIT NO.

DATE
DATE

WATER RIGHT

WATER RESOURCE AREA WA44

APPLICATION NO. 23064

PERMIT NO. 16921
PERMIT DATE 05/03/72

CERTIFICATE NO.

PRIORITY DATE 05/03/71

QUANTITY-CFS 0.06 ACRE FT/YR 10 PURPOSE Irrigation

ACRES IRRIGATED 2

OTHER Behind Goose Rock

PUD Douglas County

ACCESS ROUTE

PUMP INFORMATION

TYPE OF STRUCTURE 2 25 galdrum

LOCATION FROM SHORELINE TO PUMPS +Floating

LOCATION FROM PUMPS TO SCREENS +

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	1.5	1.5	Pipe

REMARKS There is a small foot valve in use; no screen.

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Unable to locate

SCREEN CODE U DISTANCE FROM SHORELINE

SHORE DIST. CODE

SUBMERGENCE TYPE OF MESH MATERIAL

MESH SIZE WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

WATER ELEVATION

FISH BYPASS SYSTEM

FISH SPECIES SEEN

TIME

INVENTORY NO. Col460.4R

PUMP

NAME Paul H. Hurd

ADDRESS Rt. 1 Box 102 Malaga Rd., Malaga, WA 98828

PHONE 509-662-5432

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Malaga

RIVER Columbia RIVER MILE 460.4

BANK R QUAD.MAP Wenatchee

SEC 27 T 22N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER Small pump into river

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Wood

LOCATION FROM SHORELINE TO PUMPS -10ft

LOCATION FROM PUMPS TO SCREENS +16ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 10ft

SHORE DIST. CODE -

SUBMERGENCE 3

TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.375in WIRE SIZE

PERFORATION SIZE

HOLES/INCH

WIDTH OR DIAMETER OF SCREEN 6in d

HEIGHT OR LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

RELATION TO SCREEN

MESH

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col460.5L

PUMP

NAME USBR

ADDRESS ,,

PHONE

884-4042

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN E. Wen.

RIVER Columbia RIVER MILE 460.5

BANK L QUAD.MAP Wenatchee

SEC 20 T 22N R 21E

COL.R.STUDY REPT.NO. 34

SITE NO. RI-22

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA44

APPLICATION NO. 15717

PERMIT NO. 11664

CERTIFICATE NO.

PRIORITY DATE 10/10/55

PERMIT DATE 02/01/60

QUANTITY-CFS

76 ACRE FT/YR 22800 PURPOSE Irrigation

ACRES IRRIGATED 4560

OTHER Rip Rap Fill

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Vault

LOCATION FROM SHORELINE TO PUMPS +/-

LOCATION FROM PUMPS TO SCREENS +/-

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

2

300

24

Pipe

2

150

16

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 4 Panels

SCREEN CODE P1 DISTANCE FROM SHORELINE

SHORE DIST. CODE +/-

SUBMERGENCE 10ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.188in WIRE SIZE 16

PERFORATION SIZE

HOLES/INCH

WIDTH OR DIAMETER OF SCREEN 6ft

HEIGHT OR LENGTH OF SCREEN 6ft

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME Good

BAR SPACING 3in

RELATION TO SCREEN

MESH Good

DEBRIS LOCATION AND AMOUNT Weeds on screen

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68

WATER ELEVATION

FLOW READINGS Max 0.72

AMBIENT STREAM VELOCITY unknown

INSPECTION DATE 08/16/73

TIME 1400

FISH BYPASS SYSTEM

FISH SPECIES SEEN Salmo gardneri 10in juvenile

INVENTORY NO. Col460.BR

PUMP

NAME Roberta Harden

ADDRESS Malaga Rd., Malaga, WA 98828

PHONE 509-663-3386

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wenatchee

RIVER Columbia RIVER MILE 460.8

BANK R QUAD. MAP Wenatchee

SEC 29 T 22N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA40

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE 08/14/72

PERMIT DATE 12/14/73

ACRES IRRIGATED 45

QUANTITY-CFS 1.33 ACRE FT/YR 230 PURPOSE Irrigation

OTHER This station to be enlarged

PLD Chelan County

ACCESS ROUTE

TYPE OF STRUCTURE Shed on rock

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS ++10ft pump to rock

LOCATION FROM PUMPS TO SCREENS †

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	30	4	Hose

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Pipe

SCREEN CODE Pp2 DISTANCE FROM SHORELINE 10ft

SHORE DIST. CODE ††

SUBMERGENCE 12ft TYPE OF MESH MATERIAL Pipe- 3 rows MESH SIZE

WIRE SIZE

PERFORATION SIZE 2"x4"

HOLES/INCH 3 WIDTH OR DIAMETER OF SCREEN 11.5in d HEIGHT OR

LENGTH OF SCREEN 3" apart

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68

WATER ELEVATION 11ft

FLOW READINGS Max 0.05

AMBIENT STREAM VELOCITY 0.05

INSPECTION DATE 05/08/73 TIME 1100

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col461.ORA

PUMP

NAME Susan Conklin

ADDRESS P.O. Box 88, Malaga, WA 98828

PHONE 509-663-3312

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wenatchee

RIVER Columbia RIVER MILE 461.0

BANK R QUAD. MAP Wenatchee

SEC 20 T 22N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA40

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE 11/01/73

PERMIT DATE 03/19/75

ACRES IRRIGATED 3

QUANTITY-CFS 0.08 ACRE FT/YR 12.0 PURPOSE Irrigation

OTHER Floater next to the other three

PLD Chelan County

ACCESS ROUTE

TYPE OF STRUCTURE Float drums

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS +10ft

LOCATION FROM PUMPS TO SCREENS 1ft

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	1	2	Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 10ft

SHORE DIST. CODE †

SUBMERGENCE 1ft TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.125in WIRE SIZE 22

PERFORATION SIZE

HOLES/INCH 8 WIDTH OR DIAMETER OF SCREEN 4in d

HEIGHT OR LENGTH OF SCREEN 5in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col461.ORB

PUMP

NAME G. E. Martin

ADDRESS RT. 1 Box 93, Malaga, WA 98828

PHONE 509-663-7527

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wenatchee

RIVER Columbia RIVER MILE 461.0

BANK R QUAD. MAP Wenatchee

SEC 20 T 22N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WAAO

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE 08/18/76

QUANTITY-CFS 0.04

ACRE FT/YR 9.0

PURPOSE Irrigation

ACRES IRRIGATED 1.7

OTHER Small pump - orchard next to house

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Tin shed

LOCATION FROM SHORELINE TO PUMPS -20ft

LOCATION FROM PUMPS TO SCREENS +35ft

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	0.75	2	Pipe

REMARKS 2 inch intake

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Canister

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 15ft

SHORE DIST. CODE +

SUBMERGENCE 5ft TYPE OF MESH MATERIAL Cast Al

MESH SIZE

WIRE SIZE

PERFORATION SIZE .06in

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2in d

HEIGHT OR LENGTH OF SCREEN 3in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F 68

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col461.ORB

PUMP

NAME Bruce Ferguson

ADDRESS RT. 1 Box 94A, Malaga, WA 98828

PHONE 509-663-7578

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Malaga

RIVER Columbia RIVER MILE 461.0

BANK R QUAD. MAP Wenatchee

SEC 20 T 22N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED 1.5

OTHER Foot valve

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Tin shed

LOCATION FROM SHORELINE TO PUMPS -20ft

LOCATION FROM PUMPS TO SCREENS +35ft

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	1.5	2	Pipe

REMARKS

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 15ft

SHORE DIST. CODE +

SUBMERGENCE 5ft TYPE OF MESH MATERIAL Cast iron

MESH SIZE

WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6in d

HEIGHT OR LENGTH OF SCREEN 5in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F 68

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. C01461.1R

PUMP

NAME Earnest Collier

ADDRESS 28 French, E. Wenatchee, WA 98801

PHONE 509-844-4889

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wenatchee RIVER Columbia RIVER MILE 461.1

BANK R QUAD. MAP Wenatchee

SEC 20 T 22N R 21E

COLL. R. STUDY REPT. NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

0 ACRE FT/YR

0 PURPOSE Irrigation

ACRES IRRIGATED

6

OTHER Small pump on rocky point

ACCESS ROUTE

PLD Chelan

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS =

LOCATION FROM PUMPS TO SCREENS +10ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

1

5

2

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 10ft

SHORE DIST. CODE +

SUBMERGENCE 1ft TYPE OF MESH MATERIAL Cast iron

MESH SIZE 0.25in WIRE SIZE

PERFORATION SIZE 0.375

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6in d

HEIGHT OR LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F 68 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. C01461.2R

PUMP

NAME Bill Myers

ADDRESS RT. 1 Box 91A, Malaga, WA 98828

PHONE 509-662-5208

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wenatchee RIVER Columbia RIVER MILE 461.2

BANK R QUAD. MAP Wenatchee

SEC 20 T 22N R 21E

COLL. R. STUDY REPT. NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

26

OTHER Trolley car

ACCESS ROUTE

PLD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Trolley

LOCATION FROM SHORELINE TO PUMPS -15ft

LOCATION FROM PUMPS TO SCREENS +21ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

1

7.5

2.5

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 15ft

SHORE DIST. CODE -

SUBMERGENCE 3ft TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.375in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6in d

HEIGHT OR LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F 68 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col461.3R

PUMP

NAME Engene D. Gustafson

ADDRESS Rt. 1, Malaga, WA 98828

PHONE

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wenatchee

RIVER Columbia RIVER MILE 461.3

BANK R QUAD.MAP Wenatchee

SEC 19 T 22N R 21E

COLL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER A small pump by house - lawn irrigation

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Trolley

LOCATION FROM SHORELINE TO PUMPS -30ft

LOCATION FROM PUMPS TO SCREENS +50ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

1.5

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 30ft

SHORE DIST. CODE +

SUBMERGENCE 6ft TYPE OF MESH MATERIAL

MESH SIZE 0.375in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6in d

HEIGHT OR LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col461.9R

PUMP

NAME WenatcheeHeight Stemilt Hill ADDRESS ,Wenatchee, Wa 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wenatchee

RIVER Columbia RIVER MILE 461.9

BANK R QUAD.MAP Wenatchee

SEC 19 T 22N R 21E

COLL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA40

APPLICATION NO. 01787

PERMIT NO. 01436
PERMIT DATE 03/27/30

CERTIFICATE NO. 00413

PRIORITY DATE 07/03/26

QUANTITY-CFS

15.0 ACRE FT/YR

PURPDSE Irrigation/Stock/Domestic/Mult/private

ACRES IRRIGATED 504.0

OTHER Gaps around concrete edges on both sides, 2 screen panels, both double mesh.

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Vault

LOCATION FROM SHORELINE TO PUMPS +-180ft

LOCATION FROM PUMPS TO SCREENS +-180ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

2

350

11

Pipe

3

60

8

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Panel

SCREEN CODE P1 DISTANCE FROM SHORELINE 180ft

SHORE DIST. CODE +-

SUBMERGENCE 1ft TYPE OF MESH MATERIAL Wire mesh

MESH SIZE 0.125in WIRE SIZE 16

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 8ft9in

HEIGHT OR LENGTH OF SCREEN 10ft

SCREEN CONDITION

TRASH RACK

BAR SPACING .5"x1" TRASH FENCE

FRAME

RELATION TO SCREEN In front.

MESH Good

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 10ft9in

FLOW READINGS Good

AMBIENT STREAM VELOCITY

INSPECTION DATE 07/09/79

TIME 1000

FISH BYPASS SYSTEM

FISH SPECIES SEEN Oncorhynchus sp.

INVENTORY NO. Col462.1R

PUMP

NAME Chuck Atwood

ADDRESS Rt. 1 Box X361A, Wenatchee, WA 98801

PHONE 509-663-7456

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wenatchee

RIVER Columbia RIVER MILE 462.1

BANK R QUAD. MAP Wenatchee

SEC 19 T 22N R 21E

CCL.R. STUDY REPT. NO.

SITE NO.

C OF E PLB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PLD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Tin shed

LOCATION FROM SHORELINE TO PUMPS -30ft

LOCATION FROM PUMPS TO SCREENS +146ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

1

7.5

2

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 16ft

SHORE DIST. CODE +

SUBMERGENCE 7ft TYPE OF MESH MATERIAL Cast Al

MESH SIZE .375&.25 WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 7in d

HEIGHT OR LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 65 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN Oncorhynchus sp.

INVENTORY NO. Col462.5RA

PUMP

NAME Chuck Atwood

ADDRESS RT. 1 Box 364X, Wenatchee, WA 98801

PHONE 509-663-7456

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wenatchee

RIVER Columbia RIVER MILE 462.5

BANK R QUAD. MAP Wenatchee

SEC 24 T 22N R 20E

CCL.R. STUDY REPT. NO.

SITE NO.

C OF E PLB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA40

APPLICATION NO. 02815

PERMIT NO. 01445

CERTIFICATE NO. 00421

PRIORITY DATE 01/13/30

QUANTITY-CFS 3.0

ACRE FT/YR

PURPOSE Irrigation/Domestic

ACRES IRRIGATED 105.0

OTHER 18 inch pipe in river

ACCESS ROUTE Summit Creek road next right - just up stream from highway sign

PLD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Metal shed

LOCATION FROM SHORELINE TO PUMPS =

LOCATION FROM PUMPS TO SCREENS +100ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS:

EACH

DISCHARGE

DISCHARGE

1

100

8

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN None

SCREEN CODE N DISTANCE FROM SHORELINE 100ft

SHORE DIST. CODE +

SUBMERGENCE 30ft TYPE OF MESH MATERIAL None

MESH SIZE

WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col462.5RB

PUMP

NAME R. O. Womack

ADDRESS Rt. 1 Box X361A, Wenatchee, WA 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wenatchee

RIVER Columbia RIVER MILE 462.5

BANK R QUAD.MAP Wenatchee

SEC 24 T 22N R 20E

CDL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Ground

LOCATION FROM SHORELINE TO PUMPS -12ft

LOCATION FROM PUMPS TO SCREENS +18ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS 4 inch intake

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

Pipe

1

7.5

2.5

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 12ft

SHORE DIST. CODE +

SUBMERGENCE 4ft TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.75in WIRE SIZE 3

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6in d

HEIGHT OR LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col462.8R

PUMP

NAME Chuck Olson

ADDRESS Rt. 1 Box X361B, Wenatchee, WA 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wenatchee

RIVER Columbia RIVER MILE 462.8

BANK R QUAD.MAP Wenatchee

SEC 23 T 22N R 20E

CDL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Trolley

LOCATION FROM SHORELINE TO PUMPS =

LOCATION FROM PUMPS TO SCREENS +10ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS 6 inch intake

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

Pipe

1

10

2

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 10ft

SHORE DIST. CODE +

SUBMERGENCE 4ft TYPE OF MESH MATERIAL Cast Al

MESH SIZE 1.2x.25" WIRE SIZE 0.25in

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 9.5in d

HEIGHT OR LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col463.4R

PUMP

NAME Chuck Atwood

ADDRESS Rt. 1 Box 364X, Wenatchee, WA 98801

PHONE 509-663-7456

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wenatchee

RIVER Columbia RIVER MILE 463.4

BANK R QUAD.MAP Wenatchee

SEC 03 T 22N R 20E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER Goes under the road to orchards.

PUD Chelan County

ACCESS ROUTE

TYPE OF STRUCTURE Ground

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS -10ft

LOCATION FROM PUMPS TO SCREENS +55ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS 4 inch intake

OF PUMPS

EACH

DISCHARGE

DISCHARGE

1

7.5

2

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2

DISTANCE FROM SHORELINE 55ft

SHORE DIST. CODE +

SUBMERGENCE 10ft

TYPE OF MESH MATERIAL Cast iron

MESH SIZE 0.25in

WIRE SIZE

PERFORATION SIZE

HOLES/INCH

WIDTH OR DIAMETER OF SCREEN 6in d

HEIGHT OR

LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F 68

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col463.5R

PUMP

NAME Bill Shaw

ADDRESS Rt. 1, Wenatchee, WA 98801

PHONE 509-662-6892

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wenatchee

RIVER Columbia RIVER MILE 463.5

BANK R QUAD.MAP Wenatchee

SEC 27 T 22N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA40

APPLICATION NO. 02866

PERMIT NO. 01685

CERTIFICATE NO. 00582

PRIORITY DATE 03/04/30

QUANTITY-CFS

0.3 ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED 12

OTHER

PUD Chelan County

ACCESS ROUTE

TYPE OF STRUCTURE Rock pile

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS -23ft

LOCATION FROM PUMPS TO SCREENS +81ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

1

10

2

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN None

SCREEN CODE N

DISTANCE FROM SHORELINE 23ft

SHORE DIST. CODE -

SUBMERGENCE 10ft

MESH SIZE

WIRE SIZE

PERFORATION SIZE

HOLES/INCH

WIDTH OR DIAMETER OF SCREEN

HEIGHT OR

LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F 68

WATER ELEVATION

FLOW READINGS Slight

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Co1463.BL

PUMP

NAME

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas TOWN E.Wenatche RIVER Columbia RIVER MILE 463.8 BANK L GUAD.MAP Wenatchee SEC 02 T 22N R 20E
COL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE DATE
C OF E PERMIT NO. DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER Small Pump

ACCESS ROUTE

PLD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Trolley

LOCATION FROM SHORELINE TO PUMPS -25ft

LOCATION FROM PUMPS TO SCREENS +35ft

NUMBER OF PUMPS 1
HP EACH 15
SIZE OF DISCHARGE (INCHES) 2
TYPE OF DISCHARGE Hose

REMARKS

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 10ft

SHORE DIST. CODE +

SUBMERGENCE 5ft TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.5in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 8in d

HEIGHT OR LENGTH OF SCREEN 1ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F 68

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 10ft

SHORE DIST. CODE +

SUBMERGENCE 5ft TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.5in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 8in d

HEIGHT OR LENGTH OF SCREEN 1ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F 68

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Co1463.BR

PUMP

NAME Cedar Green

ADDRESS P.O. Box 38,Wenatchee,WA 98801

PHONE 206-662-6177

DIVERSION LOCATION

STATE WA COUNTY Chelan TOWN Wenatche RIVER Columbia RIVER MILE 463.8 BANK R GUAD.MAP Wenatchee SEC 03 T 22N R 20E
COL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE DATE
C OF E PERMIT NO. DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PLD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Floatinglogs

LOCATION FROM SHORELINE TO PUMPS +

LOCATION FROM PUMPS TO SCREENS

NUMBER OF PUMPS 1
HP EACH 15
SIZE OF DISCHARGE (INCHES) 2
TYPE OF DISCHARGE Hose

REMARKS Centrifugal

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE +

SHORE DIST. CODE +

SUBMERGENCE 1ft TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.5in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 4in d

HEIGHT OR LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col463.9R

PUMP

NAME Ceder Green

ADDRESS P.O. Box 38, Wenatchee, WA 98801

PHONE 509-662-6177

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wenatchee

RIVER Columbia RIVER MILE 463.9

BANK R QUAD.MAP Wenatchee

SEC 03 T 22N R 20E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA45

APPLICATION NO. 23622

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE 12/09/71

PERMIT DATE 10/10/73

ACRES IRRIGATED 0

QUANTITY-CFS 2.3 ACRE FT/YR 905.0 PURPOSE Irrigation
OTHER Another one along side looks like a tower and it is out of order

PLD Chelan County

ACCESS ROUTE

TYPE OF STRUCTURE Concretewood

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS †Out in river

LOCATION FROM PUMPS TO SCREENS Unknown

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
		6	Pipe

REMARKS Six inch pipe running into the river centrifuge

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Unable to locate intake.

SCREEN CODE U DISTANCE FROM SHORELINE

SHORE DIST. CODE ††

SUBMERGENCE TYPE OF MESH MATERIAL

MESH SIZE WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT Weeds were thick in the area of pump site.

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col464.0L

PUMP

NAME S&D Paving Company, Inc.

ADDRESS P.O. Box 878, Wenatchee, WA 98801

PHONE 509-662-8763

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN E.Wenatche

RIVER River

RIVER MILE 464.0

BANK L QUAD.MAP Wenatchee

SEC 14 T 22N R 20E

COL.R.STUDY REPT.NO. 34

SITE NO. R1-17

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO. 071-0Y8-1-000655

DATE 11/12/75

WATER RIGHT

WATER RESOURCE AREA WA44

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE 03/29/72

PERMIT DATE 08/27/73

QUANTITY-CFS 1.5 ACRE FT/YR

PURPOSE Comm/Indust/Sand/Gravel/Environmental Quality

ACRES IRRIGATED 100

OTHER

ACCESS ROUTE

PLD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Floating

LOCATION FROM SHORELINE TO PUMPS +20ft

LOCATION FROM PUMPS TO SCREENS +5ft vary

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
0		3	Flex hose

REMARKS Floating on eight 50 Gal. Drums

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 5ft

SHORE DIST. CODE +

SUBMERGENCE TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.5in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN Bin d

HEIGHT OR LENGTH OF SCREEN 1ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F 68

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col467.OL

PUMP

NAME Ken Bolton

ADDRESS 2124 NW Cascade Ave., E. Wenatchee, WA 98801

PHONE 509-884-5425

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN E. Wenatchee RIVER Columbia RIVER MILE 467.0

BANK L QUAD. MAP Wenatchee

SEC 15 T 23N R 20E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER Foot valve

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Trolley

LOCATION FROM SHORELINE TO PUMPS -10ft

LOCATION FROM PUMPS TO SCREENS +26ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

5

2

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 16ft

SHORE DIST. CODE +

TYPE OF SCREEN Foot valve

SUBMERGENCE

TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.5in

WIRE SIZE

PERFORATION SIZE

Holes/INCH

WIDTH OR DIAMETER OF SCREEN 10in d

HEIGHT OR LENGTH OF SCREEN 1ft6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col467.OR

PUMP

NAME City of Wenatchee

ADDRESS P.O. Box 519, Wenatchee, WA 98801

PHONE 509-663-7181

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Wenatchee RIVER Columbia RIVER MILE 467.0

BANK R QUAD. MAP Wenatchee

SEC 03 T 22N R 20E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA45

APPLICATION NO. 23298

PERMIT NO.
PERMIT DATE 10/10/73

CERTIFICATE NO.

PRIORITY DATE 08/13/71

QUANTITY-CFS

17.7 ACRE FT/YR 7393 PURPOSE Dom/Munic

ACRES IRRIGATED

OTHER Not to be used after 1979.

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Pier

LOCATION FROM SHORELINE TO PUMPS ++30ft

LOCATION FROM PUMPS TO SCREENS ++10ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS Concrete

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

SCREEN CODE P1 DISTANCE FROM SHORELINE

SHORE DIST. CODE ++

TYPE OF SCREEN Wire

SUBMERGENCE

TYPE OF MESH MATERIAL Wire copper

MESH SIZE 0.25in

WIRE SIZE

PERFORATION SIZE

Holes/INCH

WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN End of pipes.

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN Richardsonius sp.

INVENTORY NO. Col467.5L

PUMP

NAME Homer Stacy

ADDRESS 3292 27th St. NW, E. Wenatchee, WA 98801

PHONE 509-884-5745

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN E. Wenatchee RIVER Columbia RIVER MILE 467.5

BANK L QUAD. MAP Wenatchee

SEC 15 T 23N R 20E

CDL.R. STUDY REPT. NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER Gas Powered

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden deck

LOCATION FROM SHORELINE TO PUMPS =

LOCATION FROM PUMPS TO SCREENS +64ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

2.5

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 64ft

SHORE DIST. CODE +

SUBMERGENCE 16ft TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.25in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6in d

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col468.9L

PUMP

NAME Welch

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN E. Wenatchee RIVER Columbia RIVER MILE 468.9

BANK L QUAD. MAP Wenatchee

SEC 11 T 23N R 20E

CDL.R. STUDY REPT. NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Rock pile

LOCATION FROM SHORELINE TO PUMPS -34ft

LOCATION FROM PUMPS TO SCREENS +74ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

5

1.5

Pipe

1

7.5

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 40ft

SHORE DIST. CODE +

SUBMERGENCE 12ft TYPE OF MESH MATERIAL Wire

MESH SIZE 1inx2in WIRE SIZE 0.25in

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 1ft d

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col469.1L

PUMP

NAME

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas TOWN E.Wenatche RIVER Columbia RIVER MILE 469.1 BANK L QUAD.MAP Wenatchee SEC 11 T 23N R 20E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER Cone only on end; 4 open turbines.

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Metal pier

LOCATION FROM SHORELINE TO PUMPS ++31ft

LOCATION FROM PUMPS TO SCREENS ++31ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS Concrete

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

Pipe

1

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cone on end. Open Turbans.

SCREEN CODE Co2 DISTANCE FROM SHORELINE 31ft

SHORE DIST. CODE ++

SUBMERGENCE 15ft TYPE OF MESH MATERIAL Wire

MESH SIZE

WIRE SIZE

PERFORATION SIZE 2in

HOLES/INCH 1ft WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col469.3L

PUMP

NAME R. F. Taplet

ADDRESS P.O. Box 2188, Wenatchee, WA 98801

PHONE 509-662-5570

DIVERSION LOCATION

STATE WA COUNTY Douglas TOWN E.Wenatche RIVER Columbia RIVER MILE 469.3 BANK L QUAD.MAP Wenatchee SEC 27 T 22N R 20E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA44

APPLICATION NO. 16767

PERMIT NO. 12430
PERMIT DATE 09/28/61

CERTIFICATE NO. 08269

PRIORITY DATE 07/07/61

QUANTITY-CFS

1.2 ACRE FT/YR

240 PURPOSE Irrigation

ACRES IRRIGATED 60

OTHER

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Rock pile

LOCATION FROM SHORELINE TO PUMPS -25ft

LOCATION FROM PUMPS TO SCREENS +110ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

Pipe

1

60

6

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 25ft

SHORE DIST. CODE -

SUBMERGENCE 15ft TYPE OF MESH MATERIAL Flaten Wire

MESH SIZE 1.5in

WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 1ft3in d

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col470.OL

PUMP

NAME Columbia Concrete Prod.

ADDRESS P.O. Box 1727, Wenatchee, WA 98801

PHONE 509-662-8151

DIVERSION LOCATION

STATE WA COUNTY Douglas TOWN

RIVER Columbia RIVER MILE 470.0 BANK L QUAD.MAP Wenatchee

SEC 22 T 23N R 20E

COL.R.STUDY REPT.NO. 34 SITE NO. RI-116

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO. 071-0YB-1-004803

DATE 6/21/78

WATER RIGHT

WATER RESOURCE AREA WA45 APPLICATION NO. 08216 PERMIT NO. 05710 CERTIFICATE NO. 03176 PRIORITY DATE 02/07/48

PERMIT DATE 03/20/48

QUANTITY-CFS 2.22 ACRE FT/YR

PURPOSE Commercial/Industrial/Sand/Gravel

ACRES IRRIGATED

OTHER 6 inch pipe goes up the hill.

ACCESS ROUTE Highway 151

PUD Douglas County

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS +17ft

LOCATION FROM PUMPS TO SCREENS +45ft

TYPE OF STRUCTURE Concrete

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	40	1.5	Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Perforated plate

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 28ft

SHORE DIST. CODE +

SUBMERGENCE 5ft TYPE OF MESH MATERIAL Aluminum MESH SIZE

WIRE SIZE

PERFORATION SIZE 0.25"

HOLES/INCH 3 WIDTH OR DIAMETER OF SCREEN 11.5in d HEIGHT OR LENGTH OF SCREEN 1ft2in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 65 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col472.OL

PUMP

NAME George Stritzel

ADDRESS Rt. 3, E. Wenatchee, WA 98801

PHONE 509-884-7928

DIVERSION LOCATION

STATE WA COUNTY Douglas TOWN E. Wenatchee

RIVER Columbia RIVER MILE 472.0 BANK L QUAD.MAP Wenatchee

SEC 11 T 23N R 20E

COL.R.STUDY REPT.NO. SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA44 APPLICATION NO. 04025 PERMIT NO. 02185 CERTIFICATE NO. 00939 PRIORITY DATE 08/25/34

PERMIT DATE 04/23/35

QUANTITY-CFS 0.6 ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED 26.5

OTHER

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS

LOCATION FROM PUMPS TO SCREENS

TYPE OF STRUCTURE Trolley

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	30	3	Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 10ft

SHORE DIST. CODE +

SUBMERGENCE 4 TYPE OF MESH MATERIAL Cast Al MESH SIZE 0.375in

WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6in d HEIGHT OR LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col475.2L

PUMP

NAME Randy Letts ADDRESS Rt. 3 Box 3131, East Wenatchee, WA 98801 PHONE 509-884-2789
DIVERSION LOCATION
STATE WA COUNTY Douglas TOWN Orondo RIVER Columbia RIVER MILE 475.2 BANK L QUAD. MAP Wenatchee SEC 03 T 24N R 20E
COL. R. STUDY REPT. NO. SITE NO. C OF E PUB. NOTICE DATE
C OF E PERMIT NO. 071-0YB-1-002875 DATE 06/22/77

WATER RIGHT

WATER RESOURCE AREA WA45 APPLICATION NO. 18421 PERMIT NO. 13434 CERTIFICATE NO. 09091 PRIORITY DATE 03/26/64
PERMIT DATE 06/15/64

QUANTITY-CFS 0.01 ACRE FT/YR 2.0 PURPOSE Irrigation ACRES IRRIGATED 0.5
OTHER C of E Permit was under Earl Person

ACCESS ROUTE PUD Douglas County

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS -11ft LOCATION FROM PUMPS TO SCREENS +87ft TYPE OF STRUCTURE Ground
NUMBER HP SIZE OF TYPE OF REMARKS 2 inch PVC pipe for intake.
OF PUMPS EACH DISCHARGE DISCHARGE
(INCHES)
01 03 Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve SCREEN CODE Fv2 DISTANCE FROM SHORELINE 76ft SHORE DIST. CODE +

SUBMERGENCE 7ft TYPE OF MESH MATERIAL MESH SIZE WIRE SIZE PERFORATION SIZE 0.5"

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6in d HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

FRAME

MESH Good

SEALS

TRASH RACK TRASH FENCE
BAR SPACING RELATION TO SCREEN

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

FLOW READINGS

FISH BYPASS SYSTEM

SCOURING

AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F 65 WATER ELEVATION

INSPECTION DATE

TIME

FISH SPECIES SEEN

INVENTORY NO. Col475.31s

PUMP

NAME Chelan County PUD ADDRESS 327 N Wenatchee Ave., Wenatchee, WA 98801 PHONE
DIVERSION LOCATION
STATE WA COUNTY Chelan TOWN Wenatchee RIVER Columbia RIVER MILE 475.3 BANK I QUAD. MAP Wenatchee SEC 25 T 24N R 20E
COL. R. STUDY REPT. NO. 34 SITE NO. E-6A C OF E PUB. NOTICE DATE
C OF E PERMIT NO. DATE

WATER RIGHT

WATER RESOURCE AREA APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE

QUANTITY-CFS 0 ACRE FT/YR 0 PURPOSE Fish propagation ACRES IRRIGATED 0

OTHER Turtle Rock Island Operators: Walt Reinan and Wayne Deardorff

ACCESS ROUTE Boat only PUD Chelan County

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS +27ft Island LOCATION FROM PUMPS TO SCREENS +10ft TYPE OF STRUCTURE Vault

NUMBER HP SIZE OF TYPE OF REMARKS
OF PUMPS EACH DISCHARGE DISCHARGE

(INCHES)
4 75 0 Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 2 Panels SCREEN CODE P1 DISTANCE FROM SHORELINE +37ft SHORE DIST. CODE ++

SUBMERGENCE 14ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.188in WIRE SIZE 9 PERFORATION SIZE

HOLES/INCH 3 WIDTH OR DIAMETER OF SCREEN 8ft HEIGHT OR LENGTH OF SCREEN 9ft

SCREEN CONDITION

FRAME Gaps around sides and holes in the sides

MESH Good Double panels for cleaning purposes

SEALS

TRASH RACK TRASH FENCE
BAR SPACING RELATION TO SCREEN

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

FLOW READINGS Max 0.4

FISH BYPASS SYSTEM

SCOURING

AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F WATER ELEVATION

INSPECTION DATE 09/27/79

TIME 1300

FISH SPECIES SEEN Gasterosteus aculeatus impinged

INVENTORY NO. Col475.5L

PUMP

NAME Bill Hilderbrand

ADDRESS Rt. 3 Box 3133, East Wenatchee, WA 98801

PHONE 509-884-1183

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Orondo

RIVER Columbia RIVER MILE 475.5

BANK L QUAD.MAP Wenatchee

SEC 25 T 24N R 20E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO. 071-0YB-1-002936

DATE 07/28/76

WATER RIGHT

WATER RESOURCE AREA WA44

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS 0 ACRE FT/YR 0

PURPOSE Irrigation

ACRES IRRIGATED 2

OTHER 20 gauge wire surrounds foot valve. C of E Permit was under Richard R. Monroe

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Ground

LOCATION FROM SHORELINE TO PUMPS -43ft

LOCATION FROM PUMPS TO SCREENS +107ft

REMARKS 1.5 inch Pvc pipe intake.

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	.5	1	Pipe
0			

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cone

SCREEN CODE Co2 DISTANCE FROM SHORELINE 64ft

SHORE DIST. CODE +

SUBMERGENCE 4ft TYPE OF MESH MATERIAL Plastic

MESH SIZE

WIRE SIZE

PERFORATION SIZE 0.25"

HOLES/INCH 4 WIDTH OR DIAMETER OF SCREEN 6in d

HEIGHT OR LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

FLOW READINGS

FISH BYPASS SYSTEM

SCOURING

AMBIENT STREAM VELOCITY

SURFACE WATER TEMP

DEGREE F 65 WATER ELEVATION 10ft

INSPECTION DATE

TIME

FISH SPECIES SEEN

INVENTORY NO. Col475.7L

PUMP

NAME Longview Orchards

ADDRESS Rt.2 Box 3128, East Wenatchee, WA 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Orondo

RIVER Columbia RIVER MILE 475.7

BANK L QUAD.MAP Wenatchee

SEC 19 T 24N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER Screened 50 gallon drum Keith Jones (Operator)

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS -15ft

LOCATION FROM PUMPS TO SCREENS +83ft

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	10	2	Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Barrel

SCREEN CODE D2 DISTANCE FROM SHORELINE +68ft

SHORE DIST. CODE +

SUBMERGENCE 6ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.125in

WIRE SIZE

PERFORATION SIZE 0.25"

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

FLOW READINGS

FISH BYPASS SYSTEM

SCOURING

AMBIENT STREAM VELOCITY

SURFACE WATER TEMP

DEGREE F 65 WATER ELEVATION

INSPECTION DATE

TIME

FISH SPECIES SEEN

INVENTORY NO. Co1475.9L
PUMP

NAME Longview Orchards ADDRESS Rt.2 Box 3128,East Wenatchee,WA 98801 PHONE
DIVERSION LOCATION
STATE WA COUNTY Douglas TOWN Orondo RIVER Columbia RIVER MILE 475.9 BANK L QUAD.MAP Wenatchee SEC 19 T 24N R 21E
COL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE DATE
C OF E PERMIT NO. DATE

WATER RIGHT WATER RESOURCE AREA APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE
PERMIT DATE
QUANTITY-CFS ACRE FT/YR PURPOSE Irrigation ACRES IRRIGATED
OTHER Pumps are located across the highway.
ACCESS ROUTE Highway 151, across road - Turtle Island PUD Douglas County
PUMP INFORMATION TYPE OF STRUCTURE Wooden
LOCATION FROM SHORELINE TO PUMPS LOCATION FROM PUMPS TO SCREENS +10ft
NUMBER HP SIZE OF TYPE OF LOCATION FROM PUMPS TO SCREENS +10ft
OF PUMPS EACH DISCHARGE DISCHARGE REMARKS
(INCHES)
1 15 2.5 Pipe
1 30 2.5 Pipe

FISH SCREEN

PUMP NO. 1
SCREEN DESCRIPTION SCREEN CODE D2 DISTANCE FROM SHORELINE +10ft SHORE DIST. CODE +
TYPE OF SCREEN Two 50 gallon drums MESH SIZE 0.125in WIRE SIZE PERFORATION SIZE
SUBMERGENCE 6ft TYPE OF MESH MATERIAL Wire HEIGHT OR LENGTH OF SCREEN
HOLES/INCH WIDTH OR DIAMETER OF SCREEN TRASH RACK
SCREEN CONDITION FRAME BAR SPACING TRASH FENCE
MESH Good RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F 65 WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE TIME
FISH BYPASS SYSTEM FISH SPECIES SEEN

FISH SCREEN

PUMP NO. 2
SCREEN DESCRIPTION SCREEN CODE D2 DISTANCE FROM SHORELINE +10ft SHORE DIST. CODE +
TYPE OF SCREEN Two 50 gallon drums. MESH SIZE 0.125in WIRE SIZE PERFORATION SIZE
SUBMERGENCE 6ft TYPE OF MESH MATERIAL Wire HEIGHT OR LENGTH OF SCREEN
HOLES/INCH WIDTH OR DIAMETER OF SCREEN TRASH RACK
SCREEN CONDITION FRAME BAR SPACING TRASH FENCE
MESH Good RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F 65 WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE TIME
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Co1476.OR

PUMP
NAME Lawrence S. Loscher ADDRESS Rt. 2 Box 2085,Wenatchee,WA 98801 PHONE 509-663-1980
DIVERSION LOCATION
STATE WA COUNTY Chelan TOWN Entiat RIVER Columbia RIVER MILE 476.0 BANK R QUAD.MAP Wenatchee SEC 24 T 24N R 20E
COL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE DATE
C OF E PERMIT NO. DATE

WATER RIGHT WATER RESOURCE AREA APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE
PERMIT DATE
QUANTITY-CFS ACRE FT/YR PURPOSE Irrigation ACRES IRRIGATED
OTHER
ACCESS ROUTE PUD Chelan County
PUMP INFORMATION TYPE OF STRUCTURE Wooden
LOCATION FROM SHORELINE TO PUMPS +10ft LOCATION FROM PUMPS TO SCREENS +26ft
NUMBER HP SIZE OF TYPE OF LOCATION FROM PUMPS TO SCREENS +26ft
OF PUMPS EACH DISCHARGE DISCHARGE REMARKS Centrifical
(INCHES)
1 60 6 Pipe

FISH SCREEN

PUMP NO.
SCREEN DESCRIPTION SCREEN CODE Cy2 DISTANCE FROM SHORELINE 16ft SHORE DIST. CODE +
TYPE OF SCREEN Wire MESH SIZE 0.5in WIRE SIZE 3 PERFORATION SIZE
SUBMERGENCE 10ft TYPE OF MESH MATERIAL Wire HEIGHT OR LENGTH OF SCREEN 1ft
HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6in d TRASH RACK
SCREEN CONDITION FRAME BAR SPACING TRASH FENCE
MESH Good RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F 65 WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE TIME
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. C01476.3L

PUMP

NAME Paul & Glen Sears

ADDRESS Rt. 2 Box 2317, East Wenatchee, WA 98801

PHONE 509-662-5790

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Orondo

RIVER Columbia RIVER MILE 476.3

BANK L QUAD. MAP Wenatchee

SEC 19 T 24N R 21E

COL. R. STUDY REPT. NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PLD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Cement Cy

LOCATION FROM SHORELINE TO PUMPS -25ft

LOCATION FROM PUMPS TO SCREENS +97ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS Turbine end of B has 1.5" openings 2 gauge wire

OF PUMPS

EACH

DISCHARGE

DISCHARGE

1

50

2.5

Pipe

1

30

4

Pipe

FISH SCREEN

PUMP NO. 1

SCREEN DESCRIPTION

TYPE OF SCREEN Wire cylinder

SCREEN CODE Cy2 DISTANCE FROM SHORELINE +52ft

SHORE DIST. CODE +

SUBMERGENCE 6ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.25in WIRE SIZE 0.125in PERFORATION SIZE

HOLES/INCH 3 WIDTH OR DIAMETER OF SCREEN 10.8in d HEIGHT OR LENGTH OF SCREEN 8in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 65 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

FISH SCREEN

PUMP NO. 2

SCREEN DESCRIPTION

TYPE OF SCREEN Wire cylinder

SCREEN CODE Cy2 DISTANCE FROM SHORELINE -72ft

SHORE DIST. CODE +

SUBMERGENCE 8ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.25in WIRE SIZE 6 PERFORATION SIZE

HOLES/INCH 3 WIDTH OR DIAMETER OF SCREEN 11.5in d HEIGHT OR LENGTH OF SCREEN 3ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. C01476.7L

PUMP

NAME

ADDRESS , ,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Orondo

RIVER Columbia RIVER MILE 476.7

BANK L QUAD. MAP Wenatchee

SEC 18 T 24N R 21E

COL. R. STUDY REPT. NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER Pump out during inspection.

ACCESS ROUTE Highway 151 road side park

PLD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Iron pipe

LOCATION FROM SHORELINE TO PUMPS +20ft

LOCATION FROM PUMPS TO SCREENS +106ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

1

2.5

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cone

SCREEN CODE Co2 DISTANCE FROM SHORELINE +86ft

SHORE DIST. CODE +

SUBMERGENCE 6ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.375in WIRE SIZE 9 PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 5.4in d HEIGHT OR LENGTH OF SCREEN 1ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT Plugged with weeds.

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 65 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Co1476.9L

PUMP

NAME Frank Hamon

ADDRESS Rt.3 Box 3135,East Wenatchee,WA 98801

PHONE 509-884-4741

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Orondo

RIVER Columbia RIVER MILE 476.9

BANK L QUAD.MAP Wenatchee

SEC 18 T 24N R 21E

CCL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER Intake 2inch Pvc pipe.

ACCESS ROUTE

PUD Douglas

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS

LOCATION FROM PUMPS TO SCREENS

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

1.5

1

Pvc

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE +30ft

SHORE DIST. CODE +

SUBMERGENCE 10ft TYPE OF MESH MATERIAL Brass

MESH SIZE 0.03in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2in

HEIGHT OR LENGTH OF SCREEN 4in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT Plugged with weeds.

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Co1477.0L

PUMP

NAME Sidney Perkins

ADDRESS Rt. 3 Box 3127,Wenatchee,WA 98801

PHONE 509-884-4182

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Orondo

RIVER Columbia RIVER MILE 477.0

BANK L QUAD.MAP Wenatchee

SEC 18 T 24N R 21E

CCL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Ground

LOCATION FROM SHORELINE TO PUMPS -10ft

LOCATION FROM PUMPS TO SCREENS +50ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

5

1

Pipe

1

15

4

Pipe

FISH SCREEN

PUMP NO. 1

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE +40ft

SHORE DIST. CODE +

SUBMERGENCE 10ft TYPE OF MESH MATERIAL

MESH SIZE 0.375in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6in d

HEIGHT OR LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT Plugged with weeds.

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col477.2L

PUMP

NAME Reeves Brothers Orchards ADDRESS Rt.3,Wenatchee,WA 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas TOWN Orondo RIVER Columbia RIVER MILE 477.2 BANK L QUAD.MAP Wenatchee SEC 18 T 24N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE
C OF E PERMIT NO.

DATE
DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUMP INFORMATION

PUD Douglas County

LOCATION FROM SHORELINE TO PUMPS -22ft

LOCATION FROM PUMPS TO SCREENS +57ft

TYPE OF STRUCTURE Tin shed

NUMBER
OF PUMPS

HP
EACH

SIZE OF
DISCHARGE
(INCHES)

TYPE OF
DISCHARGE

REMARKS

1

5

1.5

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE +35ft

SHORE DIST. CODE +

SUBMERGENCE 4ft TYPE OF MESH MATERIAL

MESH SIZE 0.25in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

FLOW READINGS

FISH BYPASS SYSTEM

SCOURING

AMBIENT STREAM VELOCITY

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

INSPECTION DATE

TIME

FISH SPECIES SEEN

INVENTORY NO. Col477.3L

PUMP

NAME A.W. Sherrard

ADDRESS Rt. 3 Box 3126,Wenatchee,WA 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas TOWN Orondo

RIVER Columbia RIVER MILE 477.3 BANK L QUAD.MAP Wenatchee SEC 18 T 24N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE
C OF E PERMIT NO.

DATE
DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUMP INFORMATION

PUD Douglas County

LOCATION FROM SHORELINE TO PUMPS -6ft

LOCATION FROM PUMPS TO SCREENS +14ft

TYPE OF STRUCTURE Wooden

NUMBER
OF PUMPS

HP
EACH

SIZE OF
DISCHARGE
(INCHES)

TYPE OF
DISCHARGE

REMARKS

1

1

1

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Wire

SCREEN CODE Cy2 DISTANCE FROM SHORELINE +17ft

SHORE DIST. CODE +

SUBMERGENCE 5ft TYPE OF MESH MATERIAL

MESH SIZE 0.03in WIRE SIZE

PERFORATION SIZE

HOLES/INCH 7 WIDTH OR DIAMETER OF SCREEN 2.9in d

HEIGHT OR LENGTH OF SCREEN 3x3.5 ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

FLOW READINGS

FISH BYPASS SYSTEM

SCOURING

AMBIENT STREAM VELOCITY

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

INSPECTION DATE

TIME

FISH SPECIES SEEN

INVENTORY NO. Col477.6RA

PUMP

NAME Robert G. Hemphill

ADDRESS Rt. 2 Box 2069, Wenatchee, WA 98801

PHONE 509-784-1787

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Entiat

RIVER Columbia RIVER MILE 477.6

BANK R QUAD. MAP Wenatchee

SEC 18 T 24N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE Highway 97

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS A-28' B-15' C-28'

LOCATION FROM PUMPS TO SCREENS A?B69'C36'

NUMBER
OF PUMPS

HP
EACH

SIZE OF
DISCHARGE
(INCHES)

TYPE OF
DISCHARGE

REMARKS

2
1

2
0.5

2

Pvc pipe
Pvc pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE Varies

SHORE DIST. CODE +

SUBMERGENCE 4ft TYPE OF MESH MATERIAL Plastic

MESH SIZE 0.25in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 1in d

HEIGHT OR LENGTH OF SCREEN 2in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 65 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col477.6RD

PUMP

NAME Lawrence Lopeman

ADDRESS Rt. 2, Wenatchee, WA 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Entiat

RIVER Columbia RIVER MILE 477.6

BANK R QUAD. MAP Wenatchee

SEC 18 T 24N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS +Varies

LOCATION FROM PUMPS TO SCREENS +Varies

NUMBER
OF PUMPS

HP
EACH

SIZE OF
DISCHARGE
(INCHES)

TYPE OF
DISCHARGE

REMARKS

1

2

Pvc pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Perforated plate

SCREEN CODE Cy2 DISTANCE FROM SHORELINE Varies

SHORE DIST. CODE +

SUBMERGENCE Var. TYPE OF MESH MATERIAL Soft plate

MESH SIZE 0.125in WIRE SIZE

PERFORATION SIZE 0.125

HOLES/INCH 6 WIDTH OR DIAMETER OF SCREEN 3.5in d

HEIGHT OR LENGTH OF SCREEN 2 ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 65 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col477.6RE

PUMP

NAME Oliver Heck

ADDRESS 9847 51st Ave S.W.,Seattle,WA 98136

PHONE 206-937-4503

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Entiat

RIVER Columbia RIVER MILE 477.6

BANK R QUAD.MAP Wenatchee

SEC 18 T 24N R 21E

CDL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE Highway 97

PLD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Ground

LOCATION FROM SHORELINE TO PUMPS +20ft

LOCATION FROM PUMPS TO SCREENS +Varies

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

1

0.75

2

Pvc pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Window screen

SCREEN CODE Bx2 DISTANCE FROM SHORELINE Varies

SHORE DIST. CODE +

SUBMERGENCE 8ft TYPE OF MESH MATERIAL Window

MESH SIZE 40/inch WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 1ft2in

HEIGHT OR LENGTH OF SCREEN 8in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT Weeds

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 65

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

FISH SPECIES SEEN

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

INVENTORY NO. Col477.6RF

PUMP

NAME Viola Ringer

ADDRESS Rt. 2,Wenatchee,WA 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Entiat

RIVER Columbia RIVER MILE 477.6

BANK R QUAD.MAP Wenatchee

SEC 07 T 24N R 21E

CDL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA46

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE 04/18/74

QUANTITY-CFS

0.02 ACRE FT/YR

2.0 PURPOSE Domestic single

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PLD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Ground

LOCATION FROM SHORELINE TO PUMPS +59ft

LOCATION FROM PUMPS TO SCREENS +68ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

1

3

2

Pvc

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Perforated plate

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 59ft.

SHORE DIST. CODE +

SUBMERGENCE 15ft TYPE OF MESH MATERIAL Aluminum

MESH SIZE WIRE SIZE

PERFORATION SIZE 0.125

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 3.2in d

HEIGHT OR LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT Plugged with weeds.

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 65

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

FISH SPECIES SEEN

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

INVENTORY NO. Co1477.8L

PUMP

NAME W.W. Wood

ADDRESS Rt.2 Box 3122,East Wenatchee,WA 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Orondo

RIVER Columbia RIVER MILE 477.8 BANK L QUAD.MAP Wenatchee SEC 18 T 24N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

PLD Douglas County

ACCESS ROUTE

PUMP INFORMATION

TYPE OF STRUCTURE Wooden plank

LOCATION FROM SHORELINE TO PUMPS -12ft

LOCATION FROM PUMPS TO SCREENS +30ft

REMARKS Intake 1inch and a 2inch.

NUMBER OF PUMPS

HP EACH

SIZE OF DISCHARGE (INCHES)

TYPE OF DISCHARGE

1

15

1

Pvc

1

15

2

Pvc

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE +30ft

SHORE DIST. CODE +

SUBMERGENCE 5ft

TYPE OF MESH MATERIAL Perforated

MESH SIZE 0.06in

WIRE SIZE 4

PERFORATION SIZE

HOLES/INCH 9

WIDTH OR DIAMETER OF SCREEN 1.5in d

HEIGHT OR LENGTH OF SCREEN 3in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F 60

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Co1477.9L

PUMP

NAME Lester Pratt

ADDRESS Rt 2 Box 3123,East Wenatchee,WA 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Orondo

RIVER Columbia RIVER MILE 477.9 BANK L QUAD.MAP Wenatchee SEC 18 T 24N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA44

APPLICATION NO. 23322

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE 08/17/71

QUANTITY-CFS

0.22 ACRE FT/YR

56.3 PURPOSE Irrigation

ACRES IRRIGATED 11

OTHER

PLD Douglas County

ACCESS ROUTE

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS -3ft

LOCATION FROM PUMPS TO SCREENS +21ft

NUMBER OF PUMPS

HP EACH

SIZE OF DISCHARGE (INCHES)

TYPE OF DISCHARGE

1

5

1.5

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE +18ft

SHORE DIST. CODE +

SUBMERGENCE 6ft

TYPE OF MESH MATERIAL Wire

MESH SIZE 0.375in

WIRE SIZE 4

PERFORATION SIZE

HOLES/INCH

WIDTH OR DIAMETER OF SCREEN 5.5in d

HEIGHT OR LENGTH OF SCREEN 5in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT Some weeds.

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col478.1LA

PUMP

NAME

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas TOWN Orondo RIVER Columbia RIVER MILE 478.1 BANK L QUAD.MAP Wenatchee SEC 18 T 24N R 21E
COL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE DATE
C OF E PERMIT NO. DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS -30ft

LOCATION FROM PUMPS TO SCREENS +103ft

NUMBER OF PUMPS 1
HP EACH 15
SIZE OF DISCHARGE (INCHES) 2
TYPE OF DISCHARGE Pipe

REMARKS

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE +74ft

SHORE DIST. CODE +

SUBMERGENCE 8ft TYPE OF MESH MATERIAL Wire

MESH SIZE 1"x0.5" WIRE SIZE 2

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 5.8in d HEIGHT OR LENGTH OF SCREEN 5in

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT Weeds plugging end.

SEDIMENTATION On bottom of valve. SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY Into scree

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col478.1LB

PUMP

NAME B.A. Buse

ADDRESS Rt. 3 Box 3121-C, East Wenatchee, WA 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas TOWN Orondo RIVER Columbia RIVER MILE 478.1 BANK L QUAD.MAP Wenatchee SEC 18 T 20N R 21E
COL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE DATE
C OF E PERMIT NO. DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS -31ft

LOCATION FROM PUMPS TO SCREENS +31ft

NUMBER OF PUMPS 1
HP EACH 3
SIZE OF DISCHARGE (INCHES) 1.5
TYPE OF DISCHARGE Pipe

REMARKS

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE +31ft

SHORE DIST. CODE +

SUBMERGENCE 5ft TYPE OF MESH MATERIAL

MESH SIZE 0.375in WIRE SIZE 4

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 5.8in d HEIGHT OR LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT Weeds at end.

SEDIMENTATION SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col478.5L

PUMP

NAME John Martin ADDRESS 1124 Barton Square, East Wenatchee, WA 98801 PHONE 509-884-6456

DIVERSION LOCATION

STATE WA COUNTY Douglas TOWN Orondo RIVER Columbia RIVER MILE 478.5 BANK L QUAD. MAP Wenatchee SEC 08 T 24N R 21E

COL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE DATE C OF E PERMIT NO. DATE

WATER RIGHT

WATER RESOURCE AREA APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE

QUANTITY-CFS ACRE FT/YR PURPOSE Irrigation ACRES IRRIGATED

OTHER Three sprinklers

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS -19ft

LOCATION FROM PUMPS TO SCREENS +50ft

NUMBER HP SIZE OF TYPE OF DISCHARGE DISCHARGE
OF PUMPS EACH (INCHES)

REMARKS Intake 2inch and a hose runs up the hill.

1 1 2 Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve SCREEN CODE Fv2 DISTANCE FROM SHORELINE +41.5ft SHORE DIST. CODE +

SUBMERGENCE 3ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.5in WIRE SIZE PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6.4in d HEIGHT OR LENGTH OF SCREEN 1.5in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F 60 WATER ELEVATION

FLOW READINGS

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col478.8LA

PUMP

NAME R.J. Wolf ADDRESS Rt 3 Box 3121 B, East Wenatchee, WA 98801 PHONE 509-884-1359

DIVERSION LOCATION

STATE WA COUNTY Douglas TOWN Orondo RIVER Columbia RIVER MILE 478.8 BANK L QUAD. MAP Wenatchee SEC 08 T 24N R 21E

COL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE DATE C OF E PERMIT NO. DATE

WATER RIGHT

WATER RESOURCE AREA APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE

QUANTITY-CFS ACRE FT/YR PURPOSE Irrigation ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Portable

LOCATION FROM SHORELINE TO PUMPS -20ft

LOCATION FROM PUMPS TO SCREENS +36ft

NUMBER HP SIZE OF TYPE OF DISCHARGE DISCHARGE
OF PUMPS EACH (INCHES)

1 0.5 1.5 Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve SCREEN CODE Co2 DISTANCE FROM SHORELINE +16ft SHORE DIST. CODE +

SUBMERGENCE TYPE OF MESH MATERIAL Perforated MESH SIZE WIRE SIZE PERFORATION SIZE 0.125

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6in d HEIGHT OR LENGTH OF SCREEN 10in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F WATER ELEVATION

FLOW READINGS

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col478.BLB

PUMP

NAME Double N Orchards

ADDRESS P.O. Box 2719, Wenatchee, WA 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Orondo

RIVER Columbia RIVER MILE 478.8

BANK L QUAD.MAP Wenatchee

SEC 08 T 24N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA44

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE 12/12/74

QUANTITY-CFS 0.14

ACRE FT/YR 20.7

PURPOSE Domestic/Irrigation

ACRES IRRIGATED

6

OTHER Orchard on hill Additional Guantity CFS-0.14Acre-FT/YEAR-2.0

ACCESS ROUTE

PLD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS -9ft

LOCATION FROM PUMPS TO SCREENS +41ft

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE	REMARKS
1	1	1	Pipe	

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE +18ft

SHORE DIST. CODE +

SUBMERGENCE 3ft TYPE OF MESH MATERIAL Wire

MESH SIZE 1.51in WIRE SIZE

PERFORATION SIZE 0.25"

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 3.8in d

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Around the outside of foot valve has deteriorated.

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 60

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

FISH SPECIES SEEN

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

INVENTORY NO. Col480.5L

PUMP

NAME

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Orondo

RIVER Columbia RIVER MILE 480.5

BANK L QUAD.MAP Wenatchee

SEC 32 T 25N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER Large holes in foot valve

ACCESS ROUTE

PLD

PUMP INFORMATION

TYPE OF STRUCTURE Temp.Diesel

LOCATION FROM SHORELINE TO PUMPS -

LOCATION FROM PUMPS TO SCREENS +

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE	REMARKS
1		4	Pipetruck	

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE

SHORE DIST. CODE +

SUBMERGENCE TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.375in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 5.8in d

HEIGHT OR LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 60

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

FISH SPECIES SEEN

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

INVENTORY NO. Col481.0L

PUMP

NAME Leeman Mosher

ADDRESS Box 12,Orondo,WA 98843

PHONE 509-784-1843

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Orondo

RIVER Columbia RIVER MILE 481.0

BANK L QUAD.MAP Wenatchee

SEC 32 T 25N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

0 ACRE FT/YR

0 PURPOSE Irrigation

ACRES IRRIGATED 5

OTHER The pump is only operated 50 to 60 minutes a day for lawn irrigation.

ACCESS ROUTE

PLD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS -97ft

LOCATION FROM PUMPS TO SCREENS +119ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

5

2

Pvc

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE +119ft

SHORE DIST. CODE +

SUBMERGENCE 6ft TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.375in WIRE SIZE

PERFORATION SIZE

HOLES/INCH 2 WIDTH OR DIAMETER OF SCREEN 6in d

HEIGHT OR LENGTH OF SCREEN 1ft

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT Grass in end.

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col481.5L

PUMP

NAME Homer Reeves

ADDRESS Star Rt Box 23,Orondo,WA 98843

PHONE 509-784-4156

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Orondo

RIVER Columbia RIVER MILE 481.5

BANK L QUAD.MAP Wenatchee

SEC 32 T 25N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER Foot valve

ACCESS ROUTE

PLD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Platform

LOCATION FROM SHORELINE TO PUMPS +

LOCATION FROM PUMPS TO SCREENS +

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

5

1.5

Pipe

Platform over river; The pump is removed every year.

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE

SHORE DIST. CODE +

SUBMERGENCE TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.375in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6in d

HEIGHT OR LENGTH OF SCREEN 1ft

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col485.2L

PUMP

NAME Double N Orchards

ADDRESS P.O. Box 2719, Wenatchee, WA 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Orondo

RIVER Columbia RIVER MILE 485.2

BANK L GUAD.MAP Wenatchee

SEC 32 T 25N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS -21ft.

LOCATION FROM PUMPS TO SCREENS +71ft.

NUMBER OF PUMPS

HP EACH

SIZE OF DISCHARGE (INCHES)

TYPE OF DISCHARGE

REMARKS Intake 2inch Pvc.

1

0.75

Pvc

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Wire screen

SCREEN CODE Bx2 DISTANCE FROM SHORELINE +50ft

SHORE DIST. CODE +

SUBMERGENCE 3ft TYPE OF MESH MATERIAL Window

MESH SIZE 0.03in WIRE SIZE 30

PERFORATION SIZE

HOLES/INCH 40 WIDTH OR DIAMETER OF SCREEN 1ft2in

HEIGHT OR LENGTH OF SCREEN Bin

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT Weeds

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F 68 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col488.0L

PUMP

NAME G. L. Pobbs

ADDRESS ,Plain,WA 98826

PHONE 509-763-3189

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Orondo

RIVER Columbia RIVER MILE 488.0

BANK L GUAD.MAP Wenatchee

SEC 28 T 26N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA44

APPLICATION NO. 19844

PERMIT NO. 14557

CERTIFICATE NO.

PRIORITY DATE 08/23/66

QUANTITY-CFS

2.0 ACRE FT/YR

380 PURPOSE Irrigation

ACRES IRRIGATED 95

OTHER Two separate pump docks

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden crib

LOCATION FROM SHORELINE TO PUMPS -4ft

LOCATION FROM PUMPS TO SCREENS +30ft

NUMBER OF PUMPS

HP EACH

SIZE OF DISCHARGE (INCHES)

TYPE OF DISCHARGE

REMARKS Centrifugal & turbine back wash system

2

50

4

Pipe

1

75

4

Pipe

FISH SCREEN

PUMP NO. 1

SCREEN DESCRIPTION

TYPE OF SCREEN Hardware cloth

SCREEN CODE Cy2 DISTANCE FROM SHORELINE +30ft

SHORE DIST. CODE +

SUBMERGENCE 2 TYPE OF MESH MATERIAL Hardware

MESH SIZE 0.375in WIRE SIZE 5-7

PERFORATION SIZE

HOLES/INCH 2 WIDTH OR DIAMETER OF SCREEN Bin d

HEIGHT OR LENGTH OF SCREEN 2ft2in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

FISH SCREEN

PUMP NO. 2

SCREEN DESCRIPTION

TYPE OF SCREEN Wire

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 26ft

SHORE DIST. CODE +

SUBMERGENCE 6ft TYPE OF MESH MATERIAL

MESH SIZE 0.25in WIRE SIZE 14

PERFORATION SIZE

HOLES/INCH 4 WIDTH OR DIAMETER OF SCREEN Bin d

HEIGHT OR LENGTH OF SCREEN 2ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F 68

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN Oncorhynchus sp.

INVENTORY NO. Col488.3L
PUMP

NAME Dennis Terry ADDRESS Star Rt. Box 5300, Orondo, WA 98843 PHONE 509-784-1888
DIVERSION LOCATION
STATE WA COUNTY Douglas TOWN Orondo RIVER Columbia RIVER MILE 488.3 BANK L QUAD. MAP Wenatchee SEC 28 T 20N R 21E
CDL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE DATE
C OF E PERMIT NO. DATE

WATER RIGHT
WATER RESOURCE AREA APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE
QUANTITY-CFS ACRE FT/YR PURPOSE PERMIT DATE ACRES IRRIGATED
OTHER
ACCESS ROUTE PUD Douglas County
PUMP INFORMATION TYPE OF STRUCTURE Wooden
LOCATION FROM SHORELINE TO PUMPS -17ft LOCATION FROM PUMPS TO SCREENS +148ft
NUMBER HP SIZE OF TYPE OF REMARKS Intake 12in; centrifugal
OF PUMPS EACH DISCHARGE DISCHARGE
(INCHES)
1 125 8 Pipe

FISH SCREEN

PUMP NO.
SCREEN DESCRIPTION SCREEN CODE Co2 DISTANCE FROM SHORELINE 127ft SHORE DIST. CODE +
TYPE OF SCREEN Cone MESH SIZE 0.375in WIRE SIZE 6 PERFORATION SIZE
SURMERGENCE 20ft TYPE OF MESH MATERIAL Wire LENGTH OF SCREEN 2ft6in
HOLES/INCH WIDTH OR DIAMETER OF SCREEN 1ft1in d HEIGHT OR TRASH RACK
SCREEN CONDITION BAR SPACING TRASH FENCE
FRAME RELATION TO SCREEN
MESH Good
SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY 0.1 INSPECTION DATE TIME
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col488.5R

PUMP
NAME Carlicio D. Aponik ADDRESS Rt. 1 Box X360, Wenatchee, WA 98801 PHONE
DIVERSION LOCATION
STATE WA COUNTY Chelan TOWN Wenatchee RIVER Columbia RIVER MILE 488.5 BANK R QUAD. MAP Wenatchee SEC 29 T 26N R 21E
CDL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE DATE
C OF E PERMIT NO. DATE

WATER RIGHT
WATER RESOURCE AREA WA40 APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE 04/09/73
QUANTITY-CFS 0.3 ACRE FT/YR 76.75 PURPOSE Irrigation ACRES IRRIGATED 15
OTHER
ACCESS ROUTE PUD Chelan County
PUMP INFORMATION TYPE OF STRUCTURE Metal bldg.
LOCATION FROM SHORELINE TO PUMPS -17ft LOCATION FROM PUMPS TO SCREENS +163.5ft
NUMBER HP SIZE OF TYPE OF REMARKS
OF PUMPS EACH DISCHARGE DISCHARGE
(INCHES)
1 40 4 Pipe

FISH SCREEN

PUMP NO.
SCREEN DESCRIPTION SCREEN CODE Cy2 DISTANCE FROM SHORELINE 146.5ft SHORE DIST. CODE +
TYPE OF SCREEN Cylinder MESH SIZE 0.25in WIRE SIZE PERFORATION SIZE
SURMERGENCE 15ft TYPE OF MESH MATERIAL Wire LENGTH OF SCREEN 3ft2in
HOLES/INCH WIDTH OR DIAMETER OF SCREEN 1ft6in d HEIGHT OR TRASH RACK
SCREEN CONDITION BAR SPACING TRASH FENCE
FRAME RELATION TO SCREEN
MESH Gaps up to 1.5in wide.
SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F 60 WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE 07/31/79 TIME 1100
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col488.7L

PUMP

NAME Dave Kane

ADDRESS ,Orondo,WA 98843

PHONE 509-784-1410

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Orondo

RIVER Columbia RIVER MILE 488.7

BANK L QUAD.MAP Wenatchee

SEC 28 T 26N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA44

APPLICATION NO. 07317

PERMIT NO. 04723

CERTIFICATE NO. 09929

PRIORITY DATE 07/12/46

PERMIT DATE 11/13/46

QUANTITY-CFS 2.22

ACRE FT/YR

PURPOSE Irrigation/Frost protection

ACRES IRRIGATED 65

OTHER

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS -34ft

LOCATION FROM PUMPS TO SCREENS +123ft

NUMBER OF PUMPS

HP EACH

SIZE OF DISCHARGE (INCHES)

TYPE OF DISCHARGE

REMARKS Water Rights include Prior Date 06/18/74 Perm Date 02/26/75 CFS 1.8;1.8;1.8 AC/FT 245.0

1

150

10

Pipe

1

60

4

Pipe

FISH SCREEN

PUMP NO. 1

SCREEN DESCRIPTION

TYPE OF SCREEN Wire

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 89ft

SHORE DIST. CODE +

SUBMERGENCE 30ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.375in WIRE SIZE 7&5

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 5.7in d

HEIGHT OR LENGTH OF SCREEN 2ft3in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F 68

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

FISH SCREEN

PUMP NO. 2

SCREEN DESCRIPTION

TYPE OF SCREEN Cone

SCREEN CODE Co2 DISTANCE FROM SHORELINE 73ft

SHORE DIST. CODE +

SUBMERGENCE 20ft TYPE OF MESH MATERIAL Expand metal

MESH SIZE 0.25in WIRE SIZE

PERFORATION SIZE 0.015

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F 68

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col489.2L

PUMP

NAME Perry Brothers

ADDRESS 6220 Batterman Rd.,E. Wenatchee,WA 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Orondo

RIVER Columbia RIVER MILE 489.2

BANK L QUAD.MAP Wenatchee

SEC 21 T 26N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden pier

LOCATION FROM SHORELINE TO PUMPS ++50ft

LOCATION FROM PUMPS TO SCREENS ++30ft2in

NUMBER OF PUMPS

HP EACH

SIZE OF DISCHARGE (INCHES)

TYPE OF DISCHARGE

REMARKS

1

25

5

Pipe

1

7.5

1.5

Pipe

FISH SCREEN

PUMP NO. 1

SCREEN DESCRIPTION

TYPE OF SCREEN Foot Valve

SCREEN CODE Fv2 DISTANCE FROM SHORELINE 33ft6in

SHORE DIST. CODE +

SUBMERGENCE 5ft TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.375in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 8.3in d

HEIGHT OR LENGTH OF SCREEN 1ft

SCREEN CONDITION

TRASH RACK

FRAME Foot valve bars - some rusted out.

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F 68

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN Gasterosteus aculeatus

FISH SCREEN

PUMP NO. 2

SCREEN DESCRIPTION

TYPE OF SCREEN Galvanized pipe.

SCREEN CODE Cy2 DISTANCE FROM SHORELINE +22ft

SHORE DIST. CODE +

SUBMERGENCE 6ft TYPE OF MESH MATERIAL Pipe

MESH SIZE 0.375in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 8.6in d

HEIGHT OR LENGTH OF SCREEN 1ft

SCREEN CONDITION

TRASH RACK

FRAME Good

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP

DEGREE F 68

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN Gasterosteus aculeatus impinged

INVENTORY NO. Col489.6L

PUMP

NAME Double N Orchards

ADDRESS P.O. Box 2719, Wenatchee, WA 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Orondo

RIVER Columbia RIVER MILE 489.6

BANK L. QUAD. MAP Wenatchee

SEC 21 T 26N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

0 ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED 0

OTHER Bypass system for weed seeds and debris.

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Barrel

LOCATION FROM SHORELINE TO PUMPS +111ft

LOCATION FROM PUMPS TO SCREENS +225ft

NUMBER OF PUMPS

HP EACH

SIZE OF DISCHARGE (INCHES)

TYPE OF DISCHARGE

REMARKS Not operating

1

10

6

Barrel

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 114ft

SHORE DIST. CODE +

SUBMERGENCE 6ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.5in

WIRE SIZE 3

PERFORATION SIZE

Holes/INCH WIDTH OR DIAMETER OF SCREEN 1ft7in d HEIGHT OR LENGTH OF SCREEN 2ft2in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM By pass system for debris only.

FISH SPECIES SEEN

INVENTORY NO. Col489.7L

PUMP

NAME Sand Castle Orchards

ADDRESS Dr. Bowsman,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Orondo

RIVER Columbia RIVER MILE 489.7

BANK L. QUAD. MAP Wenatchee

SEC 21 T 26N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden pier

LOCATION FROM SHORELINE TO PUMPS +=

LOCATION FROM PUMPS TO SCREENS +=17ft

NUMBER OF PUMPS

HP EACH

SIZE OF DISCHARGE (INCHES)

TYPE OF DISCHARGE

REMARKS

1

40

4

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Basket

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 17ft

SHORE DIST. CODE +

SUBMERGENCE 4ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.25in

WIRE SIZE 16

PERFORATION SIZE

Holes/INCH 4 WIDTH OR DIAMETER OF SCREEN 1ft1in d HEIGHT OR LENGTH OF SCREEN 1ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN Gasterosteus sp., Richardsonius sp.

INVENTORY NO. Col490.2L
PUMP

NAME Roy Holman ADDRESS P.O. Box 647, Waterville, WA 98801 PHONE
DIVERSION LOCATION
STATE WA COUNTY Douglas TOWN Orondo RIVER Columbia RIVER MILE 490.2 BANK L. QUAD. MAP Wenatchee SEC 21 T 26N R 21E
CDL.R. STUDY REPT. NO. SITE NO. C OF E PUB. NOTICE DATE
C OF E PERMIT NO. DATE

WATER RIGHT
WATER RESOURCE AREA APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE
QUANTITY-CFS 1.35 ACRE FT/YR 300 PURPOSE Irrigation ACRES IRRIGATED 60
OTHER
ACCESS ROUTE PLD Douglas County
PUMP INFORMATION TYPE OF STRUCTURE Ground
LOCATION FROM SHORELINE TO PUMPS -59ft LOCATION FROM PUMPS TO SCREENS +143ft
NUMBER HP SIZE OF TYPE OF
OF PUMPS EACH DISCHARGE DISCHARGE
(INCHES)
1 75 5 Pipe

FISH SCREEN
PUMP NO.
SCREEN DESCRIPTION
TYPE OF SCREEN Cone SCREEN CODE C62 DISTANCE FROM SHORELINE 84ft SHORE DIST. CODE +
SUBMERGENCE 3ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.375in WIRE SIZE 3 PERFORATION SIZE
HOLES/INCH WIDTH OR DIAMETER OF SCREEN 8.6in d HEIGHT OR LENGTH OF SCREEN 1.6in
SCREEN CONDITION TRASH RACK
FRAME BAR SPACING TRASH FENCE
MESH Good RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT Weeds.
SEDIMENTATION SCOURING Weeds all over SURFACE WATER TEMP DEGREE F WATER ELEVATION
FLOW READINGS Max 0.45 AMBIENT STREAM VELOCITY INSPECTION DATE TIME
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col491.5L
PUMP

NAME Double N Orchards ADDRESS P.O. Box 2719, Wenatchee, WA 98801 PHONE 509-687-3642
DIVERSION LOCATION
STATE WA COUNTY Douglas TOWN Orondo RIVER Columbia RIVER MILE 491.5 BANK L. QUAD. MAP Wenatchee SEC 21 T 26N R 21E
CDL.R. STUDY REPT. NO. SITE NO. C OF E PUB. NOTICE DATE
C OF E PERMIT NO. DATE

WATER RIGHT
WATER RESOURCE AREA WA44 APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE 12/12/74
QUANTITY-CFS 1.35 ACRE FT/YR 300 PURPOSE Irrigation ACRES IRRIGATED 60
OTHER
ACCESS ROUTE PLD Douglas County
PUMP INFORMATION TYPE OF STRUCTURE Wooden house
LOCATION FROM SHORELINE TO PUMPS -40ft LOCATION FROM PUMPS TO SCREENS +148ft
NUMBER HP SIZE OF TYPE OF
OF PUMPS EACH DISCHARGE DISCHARGE
(INCHES)
1 40 4 Pipe

FISH SCREEN
PUMP NO.
SCREEN DESCRIPTION
TYPE OF SCREEN Cylinder SCREEN CODE Cy2 DISTANCE FROM SHORELINE 128ft SHORE DIST. CODE +
SUBMERGENCE 5ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.5in WIRE SIZE 11 PERFORATION SIZE
HOLES/INCH WIDTH OR DIAMETER OF SCREEN 10in d HEIGHT OR LENGTH OF SCREEN 6in
SCREEN CONDITION TRASH RACK
FRAME BAR SPACING TRASH FENCE
MESH Good RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT Weeds.
SEDIMENTATION SCOURING
FLOW READINGS AMBIENT STREAM VELOCITY SURFACE WATER TEMP DEGREE F WATER ELEVATION
FISH BYPASS SYSTEM FISH SPECIES SEEN INSPECTION DATE TIME

INVENTORY NO. Col493.6R

PUMP

NAME Lucile Winther

ADDRESS RT. 1 Box 60E, Chelan, WA 98816

PHONE 206-682-5404

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN ChelanFals RIVER Columbia RIVER MILE 493.6

BANK R QUAD.MAP Wenatchee

SEC 03 T 26N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA47

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE 06/03/74

PERMIT DATE 08/04/75

QUANTITY-CFS

0.6 ACRE FT/YR

153 PURPOSE Irrigation

ACRES IRRIGATED 30

OTHER

ACCESS ROUTE Goose tail rock

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Cememt slab

LOCATION FROM SHORELINE TO PUMPS -62ft

LOCATION FROM PUMPS TO SCREENS +103ft

NUMBER OF PUMPS

HP EACH

SIZE OF DISCHARGE (INCHES)

TYPE OF DISCHARGE

REMARKS

1

40

3

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 41ft

SHORE DIST. CODE +

SUBMERGENCE 3ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.75in

WIRE SIZE 3

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 1ft d

HEIGHT OR LENGTH OF SCREEN 3ft

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

RELATION TO SCREEN

MESH Good

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

FLOW READINGS

FISH BYPASS SYSTEM

SCOURING

AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F 68

WATER ELEVATION

INSPECTION DATE

FISH SPECIES SEEN

INVENTORY NO. Col494.1L

PUMP

NAME McNeil Orchards

ADDRESS 2032 N. Ashland, E. Wenatchee, WA 98801

PHONE 509-884-4759

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN ChelanFals RIVER Columbia RIVER MILE 494.1

BANK L QUAD.MAP Wenatchee

SEC 12 T 26N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA44

APPLICATION NO. 14163

PERMIT NO. 10690

CERTIFICATE NO. 09701

PRIORITY DATE 12/10/56

PERMIT DATE 07/15/57

QUANTITY-CFS

0.66 ACRE FT/YR

180 PURPOSE Irrigation

ACRES IRRIGATED 45

OTHER

ACCESS ROUTE

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE Pier

LOCATION FROM SHORELINE TO PUMPS ++5ft

LOCATION FROM PUMPS TO SCREENS ++2ft

NUMBER OF PUMPS

HP EACH

SIZE OF DISCHARGE (INCHES)

TYPE OF DISCHARGE

REMARKS Centrifugal

1

60

4

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 50 Gallon drum

SCREEN CODE D2 DISTANCE FROM SHORELINE 5ft

SHORE DIST. CODE ++

SUBMERGENCE 2ft TYPE OF MESH MATERIAL Barrel

MESH SIZE 0.25in

WIRE SIZE

PERFORATION SIZE 0.25

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

TRASH FENCE

FRAME

BAR SPACING

RELATION TO SCREEN

MESH Good

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

FLOW READINGS

FISH BYPASS SYSTEM

SCOURING

AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F 60

WATER ELEVATION

INSPECTION DATE

FISH SPECIES SEEN

INVENTORY NO. Col494.5R

PUMP

NAME Tom Bagwell

ADDRESS ,,

PHONE 509-784-1128

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN ChelanFals RIVER Columbia RIVER MILE 494.5

BANK R QUAD.MAP Wenatchee

SEC 51 T 26N R 21E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Tin shed

LOCATION FROM SHORELINE TO PUMPS -26ft

LOCATION FROM PUMPS TO SCREENS +105ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

50

4

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cone

SCREEN CODE Co2 DISTANCE FROM SHORELINE 79ft

SHORE DIST. CODE +

SUBMERGENCE 9ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.375in WIRE SIZE 3

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 8.8in d

HEIGHT OR LENGTH OF SCREEN 1ft8in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY 0.53

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN Small fish.

INVENTORY NO. Col495.6R

PUMP

NAME Sunset Orchards Inc.

ADDRESS Box 1091, Wenatchee, WA 98801

PHONE

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN ChelanFals RIVER Columbia RIVER MILE 495.6

BANK R QUAD.MAP Wenatchee

SEC 05 T 26N R 22E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA47

APPLICATION NO. 22827

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE 08/20/71

QUANTITY-CFS

0.4 ACRE FT/YR

102 PURPOSE Irrigation

ACRES IRRIGATED

20

OTHER

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Iron & wood

LOCATION FROM SHORELINE TO PUMPS ++15ft

LOCATION FROM PUMPS TO SCREENS ++15ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

150

6

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Unknown (In a depression)

SCREEN CODE U DISTANCE FROM SHORELINE 15ft

SHORE DIST. CODE +

SUBMERGENCE 6ft TYPE OF MESH MATERIAL

MESH SIZE WIRE SIZE PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 7.6in d

HEIGHT OR LENGTH OF SCREEN 1ft6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT Weeds.

SEDIMENTATION

SCOURING Depress. blw btm lev

SURFACE WATER TEMP DEGREE F 68 WATER ELEVATION 9ft

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 07/26/79

TIME 1230

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col496.OR
 PUMP
 NAME Sunset Orchards Inc. ADDRESS Box 1091, Wenatchee, WA 98801 PHONE
 DIVERSION LOCATION
 STATE WA COUNTY Chelan TOWN Chelan Falls RIVER Columbia RIVER MILE 496.0 BANK R QUAD. MAP Wenatchee SEC 05 T 26N R 22E
 COL. R. STUDY REPT. NO. SITE NO. C OF E PUB. NOTICE DATE
 C OF E PERMIT NO. DATE

WATER RIGHT
 WATER RESOURCE AREA WA47 APPLICATION NO. 22826 PERMIT NO. CERTIFICATE NO. PRIORITY DATE 08/20/71
 PERMIT DATE
 QUANTITY-CFS 1.822 ACRE FT/YR 512 PURPOSE Irrigation ACRES IRRIGATED 100
 OTHER
 ACCESS ROUTE PLD Chelan County
 PUMP INFORMATION TYPE OF STRUCTURE Pier
 LOCATION FROM SHORELINE TO PUMPS ++44ft LOCATION FROM PUMPS TO SCREENS ++44ft
 NUMBER HP SIZE OF TYPE OF
 OF PUMPS EACH DISCHARGE DISCHARGE
 (INCHES)
 1 30 4 Pipe

FISH SCREEN
 PUMP NO.
 SCREEN DESCRIPTION
 TYPE OF SCREEN Cone SCREEN CODE Co2 DISTANCE FROM SHORELINE 44ft SHORE DIST. CODE †
 SUBMERGENCE TYPE OF MESH MATERIAL Wire MESH SIZE 0.25in WIRE SIZE 38 PERFORATION SIZE
 HOLES/INCH 3 WIDTH OR DIAMETER OF SCREEN 6in d HEIGHT OR LENGTH OF SCREEN 1ft6in
 SCREEN CONDITION TRASH RACK
 FRAME BAR SPACING TRASH FENCE
 MESH RELATION TO SCREEN
 SEALS

DEBRIS LOCATION AND AMOUNT
 SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION 6ft
 FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE TIME
 FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col496.5L
 PUMP
 NAME Indian Rapids Inc. ADDRESS 1628 Horse Snake Rd., Wenatchee, WA 98801 PHONE
 DIVERSION LOCATION
 STATE WA COUNTY Douglas TOWN Chelan Falls RIVER Columbia RIVER MILE 496.5 BANK L QUAD. MAP Wenatchee SEC 08 T 26N R 22E
 COL. R. STUDY REPT. NO. SITE NO. C OF E PUB. NOTICE DATE
 C OF E PERMIT NO. DATE

WATER RIGHT
 WATER RESOURCE AREA APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE
 PERMIT DATE
 QUANTITY-CFS ACRE FT/YR PURPOSE Irrigation ACRES IRRIGATED
 OTHER
 ACCESS ROUTE PLD Douglas County
 PUMP INFORMATION TYPE OF STRUCTURE Wooden
 LOCATION FROM SHORELINE TO PUMPS -12ft LOCATION FROM PUMPS TO SCREENS +33ft
 NUMBER HP SIZE OF TYPE OF
 OF PUMPS EACH DISCHARGE DISCHARGE
 (INCHES)
 1 30 3 Pipe

FISH SCREEN
 PUMP NO.
 SCREEN DESCRIPTION
 TYPE OF SCREEN Foot valve SCREEN CODE Fv2 DISTANCE FROM SHORELINE 33ft SHORE DIST. CODE +
 SUBMERGENCE 3ft TYPE OF MESH MATERIAL Wire MESH SIZE .25x1.25 WIRE SIZE PERFORATION SIZE
 HOLES/INCH WIDTH OR DIAMETER OF SCREEN 6in d HEIGHT OR LENGTH OF SCREEN
 SCREEN CONDITION TRASH RACK
 FRAME BAR SPACING TRASH FENCE
 MESH Good RELATION TO SCREEN
 SEALS

DEBRIS LOCATION AND AMOUNT
 SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F 68 WATER ELEVATION
 FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE TIME
 FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Col497.0L

PUMP

NAME Dan Cox

ADDRESS Rt. 1,Orondo,WA 98843

PHONE 509-884-3095

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Orondo

RIVER Columbia RIVER MILE 497.0

BANK L QUAD.MAP Wenatchee

SEC 08 T 26N R 22E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED 50

OTHER Two culverts leading from river to pond

ACCESS ROUTE Behind road

PUD Douglas County

PUMP INFORMATION

TYPE OF STRUCTURE

LOCATION FROM SHORELINE TO PUMPS

LOCATION FROM PUMPS TO SCREENS

NUMBER OF PUMPS

HP EACH

SIZE OF DISCHARGE (INCHES)

TYPE OF DISCHARGE

REMARKS

1 100

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN None Culvert 2ft ID

SCREEN CODE Cv2 DISTANCE FROM SHORELINE

SHORE DIST. CODE

SUBMERGENCE TYPE OF MESH MATERIAL None

MESH SIZE WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH No screen.

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

SEDIMENTATION

AMBIENT STREAM VELOCITY

FISH SPECIES SEEN

INSPECTION DATE

TIME

FLOW READINGS

FISH BYPASS SYSTEM

INVENTORY NO. Col497.2R

PUMP

NAME J. K. McAurthur&Sons

ADDRESS ,Entiat,WA 98822

PHONE

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN ChelanFals

RIVER Columbia RIVER MILE 497.2

BANK R QUAD.MAP Wenatchee

SEC 09 T 26N R 22E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA47

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE 06/28/74

QUANTITY-CFS

4.44 ACRE FT/YR

1148 PURPOSE Irrigation

ACRES IRRIGATED 225

OTHER

ACCESS ROUTE

PUD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Pipe & wood

LOCATION FROM SHORELINE TO PUMPS -10ft

LOCATION FROM PUMPS TO SCREENS +6ft

NUMBER OF PUMPS

HP EACH

SIZE OF DISCHARGE (INCHES)

TYPE OF DISCHARGE

REMARKS Mild Electrical Field

1 15 2 Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Galvanized plate.

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 16ft

SHORE DIST. CODE +

SUBMERGENCE 4ft TYPE OF MESH MATERIAL Galvanized

MESH SIZE 0.375in WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 10in d

HEIGHT OR LENGTH OF SCREEN 1ft6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Fair

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

SEDIMENTATION

AMBIENT STREAM VELOCITY

FISH SPECIES SEEN

INSPECTION DATE

TIME

FLOW READINGS

FISH BYPASS SYSTEM

INVENTORY NO. Col497.5R

PUMP

NAME Larry LiaBraaten

ADDRESS Rt. 1 Box 117,Chelan,WA 98816

PHONE 206-682-2796

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN ChelanFals RIVER Columbia RIVER MILE 497.5

BANK R QUAD.MAP Wenatchee

SEC 09 T 26N R 22E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

0 ACRE FT/YR

0 PURPOSE Irrigation

ACRES IRRIGATED 0

OTHER Only one pipe of the two was connected.

ACCESS ROUTE

PLD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS -22ft

LOCATION FROM PUMPS TO SCREENS +37ft 9in

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

30

3

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Galvanized Plate

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 15ft9in

SHORE DIST. CODE +

SUBMERGENCE 7ft TYPE OF MESH MATERIAL Flat metal

MESH SIZE 0.125in WIRE SIZE

PERFORATION SIZE 1.5in

HOLES/INCH 1 WIDTH OR DIAMETER OF SCREEN 5in d

HEIGHT OR LENGTH OF SCREEN 1.5ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Rusty

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT Plugged with weeds

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN Catostomus sp.

INVENTORY NO. Col498.1R

PUMP

NAME Golden Spoon Ranch Inc.

ADDRESS Rt. 1 Box 173C,Chelan,WA 98816

PHONE 206-682-2607

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN ChelanFals RIVER Columbia RIVER MILE 498.1

BANK R QUAD.MAP Wenatchee

SEC 10 T 26N R 22E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PLD Chelan County

PUMP INFORMATION

TYPE OF STRUCTURE Wooden shed

LOCATION FROM SHORELINE TO PUMPS -99ft

LOCATION FROM PUMPS TO SCREENS +59ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS 6inch intake

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

40

3

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Hardware cloth

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 40ft

SHORE DIST. CODE +

SUBMERGENCE 4ft TYPE OF MESH MATERIAL Hardware

MESH SIZE 0.25in WIRE SIZE 19

PERFORATION SIZE

HOLES/INCH 4 WIDTH OR DIAMETER OF SCREEN 7in d

HEIGHT OR LENGTH OF SCREEN 1ft6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH New

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT Weed plugged.

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS Max0.52

AMBIENT STREAM VELOCITY 0.04

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Col504.OL

PUMP

NAME Chelan PUD

ADDRESS 327 N Wenatchee Ave, Wenatchee, WA 98801

PHONE 509-682-5790

DIVERSION LOCATION

STATE WA COUNTY Douglas

TOWN Chelan Falls RIVER Columbia RIVER MILE 504.0

BANK L QUAD.MAP Ritzville

SEC 29 T 27N R 23E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER Ronald Davis (Operator) Rt. 1 Box 70 Orondo, WA 98843

PUD Chelan County

ACCESS ROUTE Beebe Bridge - Highway 151

TYPE OF STRUCTURE Trolley

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS =

LOCATION FROM PUMPS TO SCREENS +25ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

30

3

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Aluminum sleeve

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 25ft

SHORE DIST. CODE +

SUBMERGENCE 4ft TYPE OF MESH MATERIAL Pipe Al

MESH SIZE 0.75x0.5 WIRE SIZE

PERFORATION SIZE .75.5

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2.2in d

HEIGHT OR LENGTH OF SCREEN 1ft6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Rusted, end of pipe crushed.

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT Weeds all around pipe and screen area.

SEDIMENTATION Sand

SCOURING

SURFACE WATER TEMP DEGREE F 60 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM None

FISH SPECIES SEEN Catostomus sp., Richardsonius sp., fry

INVENTORY NO. Col506.5R

PUMP

NAME H. F. Connor

ADDRESS Box 604 144 Wapato, Chelan, WA 98816

PHONE 206-682-2030

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Chelan Falls RIVER Columbia RIVER MILE 506.5

BANK R QUAD.MAP Wenatchee

SEC 09 T 27N R 23E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA47

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE 03/14/77

QUANTITY-CFS

0.08 ACRE FT/YR

14 PURPOSE Irrigation

ACRES IRRIGATED

4

OTHER Seven sprinklers

PUD Chelan County

ACCESS ROUTE Boat only

PUMP INFORMATION

TYPE OF STRUCTURE Wooden

LOCATION FROM SHORELINE TO PUMPS -5ft

LOCATION FROM PUMPS TO SCREENS +50ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

1

5

.75

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Wire around pipe "T"

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 50ft

SHORE DIST. CODE +

SUBMERGENCE 12ft TYPE OF MESH MATERIAL Window screen

MESH SIZE 0.03in WIRE SIZE 30

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 4.3in d

HEIGHT OR LENGTH OF SCREEN 2ft6in

SCREEN CONDITION

TRASH RACK

FRAME Good

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS None

DEBRIS LOCATION AND AMOUNT All around screen small algae.

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 60 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM None.

FISH SPECIES SEEN Salmonids, Catostomus sp..

INVENTORY NO. C01514.1R

PUMP

NAME

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Chelan

TOWN Chelan Fall RIVER Columbia RIVER MILE 514.1 BANK R QUAD.MAP Ritzville SEC 13 T 28N R 23E

CDL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE Irrigation

ACRES IRRIGATED

OTHER By-Pass system for trash but does not return to river.

PUD Chelan County

ACCESS ROUTE

PUMP INFORMATION

TYPE OF STRUCTURE Barrel

LOCATION FROM SHORELINE TO PUMPS -60ft

LOCATION FROM PUMPS TO SCREENS +140ft

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	10	3	Pipe

REMARKS

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cylinder

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 80ft SHORE DIST. CODE +

SUBMERGENCE 5ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.5in WIRE SIZE PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 1ft7in d HEIGHT OR LENGTH OF SCREEN 26ft

SCREEN CONDITION

TRASH RACK BAR SPACING TRASH FENCE

FRAME

RELATION TO SCREEN

MESH

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE

TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Snk004.6L

PUMP

NAME U.S.B.R.

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY WallaWalla TOWN Burbank RIVER Columbia RIVER MILE 004.6 BANK L QUAD.MAP Walla Walla SEC 30 T 09N R 30E
COL.R.STUDY REPT.NO. 33 SITE NO. Mc-96 C OF E PUB. NOTICE DATE
C OF E PERMIT NO. DATE

WATER RIGHT

WATER RESOURCE AREA WA33 APPLICATION NO. 18196 PERMIT NO. 13543 CERTIFICATE NO. 09252 PRIORITY DATE 12/24/41
PERMIT DATE

QUANTITY-CFS 40.0 ACRE FT/YR 8850 PURPOSE Irrigation ACRES IRRIGATED 1319

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Vault

LOCATION FROM SHORELINE TO PUMPS +-30ft

LOCATION FROM PUMPS TO SCREENS +-30ft

NUMBER HP SIZE OF TYPE OF
OF PUMPS EACH DISCHARGE DISCHARGE
3 200 18 Pipe

REMARKS

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN None

SCREEN CODE N DISTANCE FROM SHORELINE 30ft

SHORE DIST. CODE +-

SUBMERGENCE 2ft TYPE OF MESH MATERIAL

MESH SIZE

WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 7ft3in

HEIGHT OR

LENGTH OF SCREEN 4ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING 1.5in TRASH FENCE

MESH

RELATION TO SCREEN None

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 60 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/21/79 TIME 1000

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Snk006.2L

PUMP

NAME Robert Arambel

ADDRESS Box 801, Pasco, WA 99301

PHONE

DIVERSION LOCATION

STATE WA COUNTY WallaWalla TOWN Burbank RIVER Snake RIVER MILE 06.25 BANK L QUAD.MAP Walla Walla SEC 28 T 09N R 31E
COL.R.STUDY REPT.NO. 33 SITE NO. MC98 C OF E PUB. NOTICE PN NPW 71-021 DATE 07/23/71
C OF E PERMIT NO. NPW 71-021-71-34 DATE 11/29/71

WATER RIGHT

WATER RESOURCE AREA WA33 A APPLICATION NO. 23315 PERMIT NO. 16827 CERTIFICATE NO. PRIORITY DATE 08/20/71
PERMIT DATE 639

QUANTITY-CFS 3.6 ACRE FT/YR PURPOSE Irrigation

ACRES IRRIGATED 160

OTHER Water Rights Include A,B

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Beams

LOCATION FROM SHORELINE TO PUMPS +-

LOCATION FROM PUMPS TO SCREENS +-

NUMBER HP SIZE OF TYPE OF
OF PUMPS EACH DISCHARGE DISCHARGE
2 150 10 Pipe
1 200 10 Pipe
1 250 10 Pipe

REMARKS Water Right B: App# 23178A Perm# 16828A Prior Date
06/25/71 Acres 420 CFS 9.37 AC/FT 2202

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cylindrical

SCREEN CODE Cyl DISTANCE FROM SHORELINE 50ft

SHORE DIST. CODE +-

SUBMERGENCE TYPE OF MESH MATERIAL Wire

MESH SIZE 0.125in

WIRE SIZE 16

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 3ft9in d HEIGHT OR LENGTH OF SCREEN 7ft10in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING TRASH FENCE Cyclone

MESH Pump No. 1-New Pumps No. 2-4 Rusted shut

RELATION TO SCREEN 5ft in front

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F WATER ELEVATION 10ft3in

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 11/05/79 TIME 1500

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Snk006.3R

PUMP

NAME Myron Peterson

ADDRESS Kahlotus Highway, Pasco, WA 99301

PHONE

DIVERSION LOCATION

STATE WA COUNTY Franklin TOWN

RIVER Snake RIVER MILE 006.3 BANK R QUAD. MAP Walla Walla SEC 21 T 09N R 31E

COL.R.STUDY REPT.NO. 33 SITE NO. MC-99

C OF E PUB. NOTICE 071-0YC-000210 DATE 08/14/73

C OF E PERMIT NO. 071-0YC-1-000210-73-43 DATE 12/07/73

WATER RIGHT

WATER RESOURCE AREA WA33 A APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE 09/13/74

PERMIT DATE

ACRES IRRIGATED 320

QUANTITY-CFS 5.0 ACRE FT/YR 1225 PURPOSE Irrigation

OTHER Water Rights Include A,B,C,D.

PUD

ACCESS ROUTE

TYPE OF STRUCTURE Iron pier

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS +-16ft

LOCATION FROM PUMPS TO SCREENS +-16ft

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	200	8	Pipe
4	500	12	Pipe
1	400	12	Pipe
1	350	12	Pipe

REMARKS One pump not in. Water Rights B,C,D Priority Dates 09/10/75, 06/14/77, 07/26/73 Acres 60, 120, 788 CFS 1.5, 2.5, 12.9 AC/FT 419, 0, 2632

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Rectang. baskets. monofilament SCREEN CODE P1 DISTANCE FROM SHORELINE 16ft SHORE DIST. CODE +-

SUBMERGENCE 10ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.125in WIRE SIZE 30 PERFORATION SIZE

HOLES/INCH 8 WIDTH OR DIAMETER OF SCREEN 3'7"x4' HEIGHT OR LENGTH OF SCREEN 21ft6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING None TRASH FENCE

MESH Screened on bottom. 1ft from bottom.

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 12ft

FLOW READINGS

AMBIENT STREAM VELOCITY 0.85

INSPECTION DATE 04/14/79 TIME 1110

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Snk007.2L

PUMP

NAME Mehlenbacher Farms Inc.

ADDRESS 3530 Humorist Rd. Rt. 6, Pasco, WA 99301

PHONE 509-547-2503

DIVERSION LOCATION

STATE WA COUNTY Walla Walla TOWN Burbank

RIVER Snake RIVER MILE 07.25 BANK L QUAD. MAP Walla Walla SEC 28 T 09N R 31E

COL.R.STUDY REPT.NO. 33 SITE NO. MC100

C OF E PUB. NOTICE DATE

C OF E PERMIT NO. 071-0YC-1-000286-76-5 DATE 03/01/76

WATER RIGHT

WATER RESOURCE AREA WA33 A APPLICATION NO. 23179

PERMIT NO. 16844

CERTIFICATE NO.

PRIORITY DATE 06/25/71

PERMIT DATE

ACRES IRRIGATED 1500

QUANTITY-CFS 33.5 ACRE FT/YR 7862 PURPOSE Irrigation

OTHER Water Rights Include A,B,C,D Mild Electrical Field

PUD

ACCESS ROUTE

TYPE OF STRUCTURE Beams

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS +-

LOCATION FROM PUMPS TO SCREENS +-

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
1	250	10	Pipe
4	500	12	Pipe

REMARKS Water Rights B,C,D Priority Dates 02/13/73, 08/06/74, 10/11/76 Perm Date 04/01/75 Acres 70 31, 20 CFS 1.6, 0.62, 0.44 AC/FT 325, 144.5, 104

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Cylindrical SCREEN CODE Cy2 DISTANCE FROM SHORELINE 60ft SHORE DIST. CODE +-

SUBMERGENCE -2ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.125in WIRE SIZE 16 PERFORATION SIZE

HOLES/INCH 4 WIDTH OR DIAMETER OF SCREEN 4ft d HEIGHT OR LENGTH OF SCREEN 8ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING TRASH FENCE Cyclone

MESH New screens

RELATION TO SCREEN 4ft in front-closes front

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 12ft10in

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 04/18/79 TIME 1130

FISH BYPASS SYSTEM None.

FISH SPECIES SEEN

INVENTORY NO. Snk011.7L

PUMP

NAME Universal Land

ADDRESS ..

PHONE

DIVERSION LOCATION

STATE WA COUNTY WallaWalla TOWN Burbank

RIVER Snake RIVER MILE 010.7 BANK L QUAD.MAP

SEC T R

COL.R.STUDY REPT.NO. 33 SITE NO. IH-2

C OF E PUB. NOTICE 69-2

DATE 01/28/69

C OF E PERMIT NO.

DATE 05/01/69

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PLD

PUMP INFORMATION

TYPE OF STRUCTURE Concrete

LOCATION FROM SHORELINE TO PUMPS +-

LOCATION FROM PUMPS TO SCREENS 6-

NUMBER

HP

SIZE OF

TYPE OF

REMARKS 1 1500

16inch Pipe

6 booster pumps.

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

3

500

24

Pipe

5

900

20

Pipe

2

1000

16

Pipe

2

600

14

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN 9 panels

SCREEN CODE P1 DISTANCE FROM SHORELINE

SHORE DIST. CODE +-

SUBMERGENCE TYPE OF MESH MATERIAL Wire

MESH SIZE 0.125in WIRE SIZE 24

PERFORATION SIZE

HOLES/INCH 6 WIDTH OR DIAMETER OF SCREEN 7ft1in

HEIGHT OR LENGTH OF SCREEN 15ft7in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 10ft7in

FLOW READINGS Max0.15

AMBIENT STREAM VELOCITY 0.20

INSPECTION DATE 04/18/79 TIME 1340

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Snk011.7R

PUMP

NAME Lyle W. Neff

ADDRESS 903 Octave, Pasco, WA 99301

PHONE

DIVERSION LOCATION

STATE WA COUNTY Franklin TOWN

RIVER Snake RIVER MILE 011.7 BANK R QUAD. MAP Walla Walla SEC 18 T 09N R 32E

COL. R. STUDY REPT. NO. 33 SITE NO. IH-102 C OF E PUB. NOTICE 071-0YC-1-000296

DATE 03/30/76

C OF E PERMIT NO. 071-0YC-000296-76-11 DATE 05/19/76

WATER RIGHT

WATER RESOURCE AREA WA33 APPLICATION NO. 20277 PERMIT NO. 14874 CERTIFICATE NO.

PRIORITY DATE 05/31/67

PERMIT DATE

QUANTITY-CFS 44.4 ACRE FT/YR 6700 PURPOSE Irrigation

ACRES IRRIGATED 3250

OTHER Charleen Lake

ACCESS ROUTE Through fields at Lyle Neff ranch sign

PLD

PUMP INFORMATION

TYPE OF STRUCTURE Concrete

LOCATION FROM SHORELINE TO PUMPS -

LOCATION FROM PUMPS TO SCREENS -

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE	REMARKS	1	350	10	Pipe	1	100	8	Pipe
1	450	12	Pipe									
2	500	12	Pipe									
1	300	12	Pipe									
2	200	10	Pipe									

FISH SCREEN

PLMP NO. 1

SCREEN DESCRIPTION

TYPE OF SCREEN Basket. Culvert Unscreened

SCREEN CODE Cv2

DISTANCE FROM SHORELINE

SHORE DIST. CODE +

SUBMERGENCE TYPE OF MESH MATERIAL Wire

MESH SIZE 0.125in WIRE SIZE 16

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 3ft3in

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN 14ft in front of pumps.

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 7ft4in

FLOW READINGS Max1.3

AMBIENT STREAM VELOCITY 0

INSPECTION DATE 09/19/79 TIME 1145

FISH BYPASS SYSTEM

FISH SPECIES SEEN

FISH SCREEN

PLMP NO. 2

SCREEN DESCRIPTION

TYPE OF SCREEN 3 Vertical panel screens

SCREEN CODE P1

DISTANCE FROM SHORELINE

SHORE DIST. CODE

SUBMERGENCE TYPE OF MESH MATERIAL Wire

MESH SIZE 0.125in WIRE SIZE 16

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 5ft11in

HEIGHT OR LENGTH OF SCREEN 5ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE Cyclone

MESH New

RELATION TO SCREEN Out in front.

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 7ft4in

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 05/02/79 TIME 9:10

FISH BYPASS SYSTEM None

FISH SPECIES SEEN

FISH SCREEN

PLMP NO. 3

SCREEN DESCRIPTION

TYPE OF SCREEN None

SCREEN CODE

DISTANCE FROM SHORELINE

SHORE DIST. CODE

SUBMERGENCE 3ft TYPE OF MESH MATERIAL

MESH SIZE WIRE SIZE PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/19/79 TIME 1145

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Snk013.2L

PUMP

NAME Glenn C. Walkley

ADDRESS Rt. 5 Box 5010, Pasco, WA 99301

PHONE 509-547-9939

DIVERSION LOCATION

STATE WA COUNTY Walla Walla TOWN

RIVER Snake RIVER MILE 013.2

BANK L QUAD. MAP Walla Walla SEC 09 T 09N R 32E

COL. R. STUDY REPT. NO. 33 SITE NO. IH-11

C OF E PUB. NOTICE 66-24

DATE 12/22/66

C OF E PERMIT NO.

DATE 02/14/67

WATER RIGHT

WATER RESOURCE AREA WA33 APPLICATION NO. 19723 PERMIT NO. 14572 CERTIFICATE NO.

PRIORITY DATE 06/20/66

QUANTITY-CFS 30 ACRE FT/YR 18000 PURPOSE Irrigation

ACRES IRRIGATED 4500

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Metal Pier

LOCATION FROM SHORELINE TO PUMPS ++3ft

LOCATION FROM PUMPS TO SCREENS ++3ft

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
2	60	12	Pipe

REMARKS

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Panel

SCREEN CODE P1 DISTANCE FROM SHORELINE 11ft

SHORE DIST. CODE ++

SUBMERGENCE 6in TYPE OF MESH MATERIAL Wire

MESH SIZE 0.25in WIRE SIZE 20

PERFORATION SIZE

HOLES/INCH 4in WIDTH OR DIAMETER OF SCREEN 3ft8in d HEIGHT OR LENGTH OF SCREEN 4ft

SCREEN CONDITION

FRAME Check around bottom

TRASH RACK

MESH Good

BAR SPACING

TRASH FENCE

SEALS None

RELATION TO SCREEN About one foot.

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 5ft

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 04/18/79 TIME 1445

FISH BYPASS SYSTEM None.

FISH SPECIES SEEN

INVENTORY NO. Snk014.6R

PUMP

NAME Darrell Klundt Et. Al.

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Franklin TOWN Pasco

RIVER Snake RIVER MILE 014.6

BANK R QUAD. MAP Walla Walla SEC 23 T 09N R 32E

COL. R. STUDY REPT. NO. SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA33 APPLICATION NO. PERMIT NO. CERTIFICATE NO.

PRIORITY DATE 12/01/76

QUANTITY-CFS 5.6 ACRE FT/YR 1310 PURPOSE Irrigation

ACRES IRRIGATED 250

OTHER Dalton Lake

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Concrete

LOCATION FROM SHORELINE TO PUMPS -

LOCATION FROM PUMPS TO SCREENS -

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
-	-	-	-

REMARKS

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Wire box shaped.

SCREEN CODE Cv1 DISTANCE FROM SHORELINE

SHORE DIST. CODE -

SUBMERGENCE 1ft TYPE OF MESH MATERIAL Wire

MESH SIZE 0.125in WIRE SIZE 11

PERFORATION SIZE

HOLES/INCH 4 WIDTH OR DIAMETER OF SCREEN 7ft

HEIGHT OR LENGTH OF SCREEN 5ft4in

SCREEN CONDITION

FRAME

TRASH RACK

MESH Good

BAR SPACING

TRASH FENCE

SEALS Good

RELATION TO SCREEN

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS Max 0.01

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/19/79 TIME 1255

FISH BYPASS SYSTEM

FISH SPECIES SEEN Micropterus sp.

INVENTORY NO. Sbk017.0L
PUMP

NAME K2H Farms Inc. ADDRESS ,, PHONE
DIVERSION LOCATION RIVER Snake RIVER MILE 017.0 BANK L QUAD.MAP Walla Walla SEC 36 T 10N R 32E
STATE WA COUNTY WallaWalla TOWN DATE 11/25/68
COL.R.STUDY REPT.NO. 33 SITE NO. 1H-106 C OF E PUB. NOTICE PN 68-27 DATE 01/24/69
C OF E PERMIT NO.

WATER RIGHT WATER RESOURCE AREA WA33 A APPLICATION NO. 21557 PERMIT NO. 15820 CERTIFICATE NO. PRIORITY DATE 04/22/69
PERMIT DATE ACRES IRRIGATED 395
QUANTITY-CFS 8.0 ACRE FT/YR 1185 PURPOSE Irrigation

OTHER Water Rights Include A,B,C,D 1000 Pump was taken out this year. PUD
ACCESS ROUTE TYPE OF STRUCTURE Concrete
PUMP INFORMATION LOCATION FROM SHORELINE TO PUMPS +- TYPE OF STRUCTURE Concrete
LOCATION FROM PUMPS TO SCREENS +-
NUMBER HP SIZE OF TYPE OF LOCATION FROM PUMPS TO SCREENS +-
OF PUMPS EACH DISCHARGE DISCHARGE REMARKS Water Rights B,C,D App# 20910 Cert# 15482 Prior
Dates 04/18/68;09/23/72;12/19/74 Perm Date 10/01/7
4 Acres 7000;4514;1993 CFS 14;1993 CFS 125.0;83.76
CFS 40.0 AC/FT 21000; 15673; 6268
3 500 Pipe
8 1500 Pipe
1 1000 Pipe

FISH SCREEN PUMP NO.
SCREEN DESCRIPTION SCREEN CODE D4 DISTANCE FROM SHORELINE 15ft SHORE DIST. CODE +-
TYPE OF SCREEN 6 Wheels - Made by Monark. MESH SIZE 0.03in WIRE SIZE PERFORATION SIZE
SUBMERGENCE TYPE OF MESH MATERIAL Window
HOLES/INCH WIDTH OR DIAMETER OF SCREEN HEIGHT OR LENGTH OF SCREEN TRASH RACK
SCREEN CONDITION BAR SPACING TRASH FENCE Cyclone
FRAME All new screens on wheels. RELATION TO SCREEN
MESH Good.
SEALS

DEBRIS LOCATION AND AMOUNT SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION 7ft10in
SEDIMENTATION AMBIENT STREAM VELOCITY INSPECTION DATE 04/18/79 TIME 1525
FLOW READINGS FISH SPECIES SEEN Micropterus sp.
FISH BYPASS SYSTEM None - Spray bars in front.

INVENTORY NO. Sbk020.2R
PUMP

NAME T & R Farms ADDRESS P.O. Box 654,Warden,WA 98857 PHONE
DIVERSION LOCATION RIVER Snake RIVER MILE 020.2 BANK R QUAD.MAP Walla Walla SEC 13 T 10N R 32E
STATE WA COUNTY Franklin TOWN DATE 03/06/74
COL.R.STUDY REPT.NO. 33 SITE NO. 1H-23 C OF E PUB. NOTICE 071-OYC-1-000219 DATE 12/04/74
C OF E PERMIT NO. 071-OYC-1-000219-74-22

WATER RIGHT WATER RESOURCE AREA WA33 A APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE 12/11/73
PERMIT DATE ACRES IRRIGATED 3200
QUANTITY-CFS 52.0 ACRE FT/YR 16773 PURPOSE Irrigation

OTHER Water Rights Include A,B PUD
ACCESS ROUTE TYPE OF STRUCTURE Pier
PUMP INFORMATION LOCATION FROM SHORELINE TO PUMPS +-13ft to shore LOCATION FROM PUMPS TO SCREENS +-112ft
LOCATION FROM PUMPS TO SCREENS +-112ft
NUMBER HP SIZE OF TYPE OF REMARKS Water Right B Prior Date 12/11/73 Acres 3200
OF PUMPS EACH DISCHARGE DISCHARGE CFS 52.0 AC/FT 16773
1 600 12 Pipe
1 500 10 Pipe
2 800 14 Pipe
1 400 10 Pipe

FISH SCREEN PUMP NO.
SCREEN DESCRIPTION SCREEN CODE P1 DISTANCE FROM SHORELINE 13ft 24ft SHORE DIST. CODE ++
TYPE OF SCREEN Panels. MESH SIZE 0.03in WIRE SIZE 19 PERFORATION SIZE
SUBMERGENCE -1ft TYPE OF MESH MATERIAL Monofilament
HOLES/INCH 7 WIDTH OR DIAMETER OF SCREEN 12ft HEIGHT OR LENGTH OF SCREEN 6ft
SCREEN CONDITION TRASH RACK
FRAME New Good. 18ft to bottom is unscreened. BAR SPACING TRASH FENCE
MESH New Good. 18ft to bottom is unscreened. RELATION TO SCREEN
SEALS New Good. 18ft to bottom is unscreened.

DEBRIS LOCATION AND AMOUNT SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION 7ft10in
SEDIMENTATION AMBIENT STREAM VELOCITY INSPECTION DATE 04/18/79 TIME 1500
FLOW READINGS FISH SPECIES SEEN
FISH BYPASS SYSTEM

INVENTORY NO. Snk085.0RA
PUMP

NAME Walter Riley ADDRESS Rt. 3 Box 98, Pasco, WA

PHONE 509-549-3624

DIVERSION LOCATION

STATE WA COUNTY Whitman TOWN RIVER Snake RIVER MILE 085.0 BANK R QUAD.MAP Pullman SEC 03 T 13N R 40E

COL.R.STUDY REPT.NO. SITE NO.

C OF E PUB. NOTICE
C OF E PERMIT NO. OYC-2-200399

DATE
DATE 06/15/77

WATER RIGHT	WATER RESOURCE AREA	APPLICATION NO.	PERMIT NO.	CERTIFICATE NO.	PRIORITY DATE
QUANTITY-CFS	ACRE FT/YR	PURPOSE	PERMIT DATE		ACRES IRRIGATED
OTHER					PUD
ACCESS ROUTE					TYPE OF STRUCTURE
PUMP INFORMATION					
LOCATION FROM SHORELINE TO PUMPS +10ft				LOCATION FROM PUMPS TO SCREENS	
NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE	REMARKS	
1	100	4	Pipe		

FISH SCREEN
PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Perforated plate. SCREEN CODE Cy2 DISTANCE FROM SHORELINE 25ft SHORE DIST. CODE -
SUBMERGENCE 5ft TYPE OF MESH MATERIAL Stainless MESH SIZE WIRE SIZE PERFORATION SIZE 0.25"

HOLES/INCH 3 WIDTH OR DIAMETER OF SCREEN 1ft d HEIGHT OR LENGTH OF SCREEN 1ft6in

SCREEN CONDITION

FRAME TRASH RACK
MESH BAR SPACING TRASH FENCE
SEALS RELATION TO SCREEN

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE TIME
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Snk085.0RB

PUMP

NAME L. C. Kuykendall ADDRESS 915 3rd St., Clarkston, WA 99403

PHONE

DIVERSION LOCATION

STATE WA COUNTY Whitman TOWN RIVER Snake RIVER MILE 085.0 BANK R QUAD.MAP Pullman SEC 03 T 13N R 40E

COL.R.STUDY REPT.NO. 33 SITE NO. LG-19

C OF E PUB. NOTICE 071-OYC-1-000161
C OF E PERMIT NO. 071-OYC-1-000161-73-18

DATE 04/13/72
DATE 05/31/73

WATER RIGHT	WATER RESOURCE AREA	APPLICATION NO.	PERMIT NO.	CERTIFICATE NO.	PRIORITY DATE
QUANTITY-CFS	ACRE FT/YR	PURPOSE Irrigation	PERMIT DATE		ACRES IRRIGATED
OTHER					PUD
ACCESS ROUTE					TYPE OF STRUCTURE
PUMP INFORMATION					
LOCATION FROM SHORELINE TO PUMPS -13ft				LOCATION FROM PUMPS TO SCREENS	
NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE	REMARKS	
1	125	4.5	Pipe		

FISH SCREEN
PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Pipe SCREEN CODE Pp2 DISTANCE FROM SHORELINE 29ft SHORE DIST. CODE +

SUBMERGENCE TYPE OF MESH MATERIAL Pipe-Slashes MESH SIZE 0.25in WIRE SIZE PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 11in d HEIGHT OR LENGTH OF SCREEN 9ft6in

SCREEN CONDITION

FRAME TRASH RACK
MESH Good BAR SPACING TRASH FENCE
SEALS RELATION TO SCREEN

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE 09/25/79 TIME 1430
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. Snk111.0R

PUMP

NAME Wawawii Park

ADDRESS Room 11, CNB Building, Colfax, WA 99111

PHONE 509-397-2494

DIVERSION LOCATION

STATE COUNTY

TOWN Colfax

RIVER Snake

RIVER MILE 111.0

BANK R QUAD.MAP Pullman

SEC 03 T 13N R 43E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE
C OF E PERMIT NO.

DATE
DATE

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.
PERMIT DATE

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS 0 ACRE FT/YR 0 PURPOSE

ACRES IRRIGATED 0

OTHER Submersible pump inside pipe - Hp unknown 15.5 ft. from screen to bottom (stand pipe)

ACCESS ROUTE

PLD

PUMP INFORMATION

TYPE OF STRUCTURE

LOCATION FROM SHORELINE TO PUMPS +

LOCATION FROM PUMPS TO SCREENS +25ft

NUMBER HP SIZE OF DISCHARGE (INCHES)

TYPE OF DISCHARGE

REMARKS

1 1 6 Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Wire cylinder

SCREEN CODE Cy2 DISTANCE FROM SHORELINE 50ft

SHORE DIST. CODE +

SUBMERGENCE 7ft TYPE OF MESH MATERIAL Stainless

MESH SIZE 0.125in WIRE SIZE

PERFORATION SIZE

HOLES/INCH 6 WIDTH OR DIAMETER OF SCREEN 11in d

HEIGHT OR LENGTH OF SCREEN 2ft3in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 68 WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/03/79 TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Snk135.4R

PUMP

NAME Tidewater Terminal

ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE WA COUNTY Whitman

TOWN Lewiston

RIVER Snake

RIVER MILE 135.4

BANK R QUAD.MAP Pullman

SEC 24 T 11N R 45E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE
C OF E PERMIT NO.

DATE
DATE

WATER RIGHT

WATER RESOURCE AREA WA35

APPLICATION NO.

PERMIT NO.
PERMIT DATE 06/28/78

CERTIFICATE NO.

PRIORITY DATE 08/29/77

QUANTITY-CFS 0.8 ACRE FT/YR 100 PURPOSE Com/Indust/Fire/Environmental Quality

ACRES IRRIGATED

OTHER Foot valve Quantity-0.8-0.8 Acre-Ft/Year-100-100

ACCESS ROUTE

PLD

PUMP INFORMATION

TYPE OF STRUCTURE Floating

LOCATION FROM SHORELINE TO PUMPS +10ft

LOCATION FROM PUMPS TO SCREENS +Varies

NUMBER HP SIZE OF DISCHARGE (INCHES)

TYPE OF DISCHARGE

REMARKS

1 10 2 Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Foot valve

SCREEN CODE Fv1 DISTANCE FROM SHORELINE varies

SHORE DIST. CODE +

SUBMERGENCE 3ft TYPE OF MESH MATERIAL Cast Al

MESH SIZE 0.06in WIRE SIZE

PERFORATION SIZE

HOLES/INCH 8 WIDTH OR DIAMETER OF SCREEN 6in d

HEIGHT OR LENGTH OF SCREEN 6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE TIME

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Snk141.5L

PUMP

NAME Wash. Water Power Company

ADDRESS 915 6th, Clarkston, WA 99403

PHONE 509-743-5541

DIVERSION LOCATION

STATE WA COUNTY Asotin

TOWN Clarkston

RIVER Snake

RIVER MILE 141.5

BANK L QUAD. MAP Pullman

SEC 05 T 10N R 46E

COL.R.STUDY REPT.NO.

SITE NO.

C OF E PUB. NOTICE

DATE

C OF E PERMIT NO.

DATE

WATER RIGHT

WATER RESOURCE AREA WA35

APPLICATION NO. 03433C

PERMIT NO. 01881

CERTIFICATE NO. 10893

PRIORITY DATE 06/26/31

PERMIT DATE

QUANTITY-CFS

60 ACRE FT/YR 4200. PURPOSE Irrig/Dom/Munic

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE Concrete

LOCATION FROM SHORELINE TO PUMPS ++25ft.

LOCATION FROM PUMPS TO SCREENS ++35ft.

NUMBER

HP

SIZE OF

TYPE OF

REMARKS The ends of the pipes that go out into the river

OF PUMPS

EACH

DISCHARGE

DISCHARGE

do not have screens on the ends of them.

3

150

10

Pipe

FISH SCREEN

PUMP NO. 1

SCREEN DESCRIPTION

SCREEN CODE P1

DISTANCE FROM SHORELINE 25ft

SHORE DIST. CODE ++

TYPE OF SCREEN 2 Panels

SUBMERGENCE TYPE OF MESH MATERIAL

MESH SIZE 0.187in

WIRE SIZE 14

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Good.

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 5ft3in

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 04/20/79

TIME 1342

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Snk142.1R

PUMP

NAME B.P.O. of Elks

ADDRESS 3565 Country Club Dr., Lewiston, ID 83501

PHONE

DIVERSION LOCATION

STATE ID COUNTY Nez Perce

TOWN Lewiston

RIVER Snake

RIVER MILE 142.1

BANK R QUAD. MAP Pullman

SEC 14 T 35N R 06W

COL.R.STUDY REPT.NO. 33

SITE NO. LRG-25

C OF E PUB. NOTICE 071-OYC-1-000196

DATE 03/15/73

C OF E PERMIT NO. 071-OYC-1-000196-73-10

DATE 04/16/73

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PUD

PUMP INFORMATION

TYPE OF STRUCTURE

LOCATION FROM SHORELINE TO PUMPS -18ft from pump to SH.

LOCATION FROM PUMPS TO SCREENS +38ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS Pipe uphill

OF PUMPS

EACH

DISCHARGE

DISCHARGE

1

60

8

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

SCREEN CODE N

DISTANCE FROM SHORELINE 20ft

SHORE DIST. CODE +

TYPE OF SCREEN None; 12in pipe surrounding 2in

SUBMERGENCE 10ft TYPE OF MESH MATERIAL

MESH SIZE

WIRE SIZE

PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN

HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F 70

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 09/24/79

TIME 1530

FISH BYPASS SYSTEM

FISH SPECIES SEEN

INVENTORY NO. Snk142.5RA

PUMP

NAME Mountain West Enterprises ADDRESS P.O. Box 775, Lewiston, ID 83501

PHONE

DIVERSION LOCATION

STATE ID COUNTY Nez Perce TOWN Lewiston RIVER Snake RIVER MILE 142.5 BANK R QUAD.MAP Pullman SEC 14 T 35N R 06W

COL.R.STUDY REPT.NO. 33 SITE NO. LRG-25 C OF E PUB. NOTICE 071-OYC-1-000164 DATE 11/13/72
C OF E PERMIT NO. 071-OYC-1-000164-72-31 DATE 11/17/72

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE

ACRES IRRIGATED

OTHER

ACCESS ROUTE

PLD

PUMP INFORMATION

TYPE OF STRUCTURE

LOCATION FROM SHORELINE TO PUMPS -20ft

LOCATION FROM PUMPS TO SCREENS +80ft

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

2

60

6

Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

SCREEN CODE Ep2 DISTANCE FROM SHORELINE

SHORE DIST. CODE +

TYPE OF SCREEN Hardware cloth

SUBMERGENCE TYPE OF MESH MATERIAL Expand metal MESH SIZE 0.25in WIRE SIZE 14 PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2ft d HEIGHT OR LENGTH OF SCREEN 2ft

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE

MESH Falling apart-1"x1.5" diamond squares on inside.

RELATION TO SCREEN

SEALS 16in on intake pipe attached to box.

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 08/23/79 TIME 1500

FISH BYPASS SYSTEM Box about 3ft off bottom

FISH SPECIES SEEN

INVENTORY NO. Snk142.5RB

PUMP

NAME A. Neil DeAtley

ADDRESS P.O. Box 648, Lewiston, ID 83501

PHONE

DIVERSION LOCATION

STATE ID COUNTY Nez Perce TOWN Lewiston RIVER Snake RIVER MILE 142.5 BANK R QUAD.MAP Pullman SEC 14 T 35N R 06W

COL.R.STUDY REPT.NO. 33 SITE NO. LRG-25 C OF E PUB. NOTICE DATE 10/18/73
C OF E PERMIT NO. 071-OYC-1-000164-72-31 DATE 10/18/73

WATER RIGHT

WATER RESOURCE AREA

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

PRIORITY DATE

QUANTITY-CFS

ACRE FT/YR

PURPOSE

ACRES IRRIGATED

OTHER Same as Mountain West Enterprise

ACCESS ROUTE

PLD

PUMP INFORMATION

TYPE OF STRUCTURE

LOCATION FROM SHORELINE TO PUMPS

LOCATION FROM PUMPS TO SCREENS

NUMBER

HP

SIZE OF

TYPE OF

REMARKS

OF PUMPS

EACH

DISCHARGE

DISCHARGE

(INCHES)

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

SCREEN CODE Ep2 DISTANCE FROM SHORELINE 20ft

SHORE DIST. CODE +

TYPE OF SCREEN Hardware cloth.

SUBMERGENCE 3ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.25in WIRE SIZE 14 PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2ft HEIGHT OR LENGTH OF SCREEN 2ft

SCREEN CONDITION

TRASH RACK

FRAME 2ft cube box on end of pipe

BAR SPACING

TRASH FENCE

MESH Falling apart-1"x1.5" diamond squares on inside.

RELATION TO SCREEN

SEALS 16in on intake Pipe attached to box.

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 08/23/79 TIME 1500

FISH BYPASS SYSTEM 2ft cube box about 3 ft off bottom.

FISH SPECIES SEEN

INVENTORY NO. C1w003.SL
PUMP
NAME Potlatch Corporation ADDRESS P.O. Box 1016, Lewiston, ID 83501 PHONE
DIVERSION LOCATION
STATE ID COUNTY Nez Perce TOWN Lewiston RIVER Clearwat RIVER MILE 003.5 BANK L QUAD.MAP Pullman SEC 27 T 36N R 03W
COL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE 071-0YC-000348 DATE 11/03/76
C OF E PERMIT NO. 071-0YC-000348-77-1 DATE 03/02/77

WATER RIGHT
WATER RESOURCE AREA ID L-3 APPLICATION NO. 867059 PERMIT NO. CERTIFICATE NO. PRIORITY DATE
PERMIT DATE
QUANTITY-CFS 1.0 ACRE FT/YR PURPOSE Silviculture ACRES IRRIGATED
OTHER
ACCESS ROUTE PLD
PUMP INFORMATION TYPE OF STRUCTURE Vault
LOCATION FROM SHORELINE TO PUMPS +/- LOCATION FROM PUMPS TO SCREENS +/-20ft
NUMBER HP SIZE OF TYPE OF
OF PUMPS EACH DISCHARGE DISCHARGE
6 125 12 Pipe

FISH SCREEN
PUMP NO.
SCREEN DESCRIPTION SCREEN CODE T54 DISTANCE FROM SHORELINE 35ft SHORE DIST. CODE ++
TYPE OF SCREEN 2 Rex Traveling screens PERFORATION SIZE
SUBMERGENCE 10ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.125in WIRE SIZE 18
HOLES/INCH 6 WIDTH OR DIAMETER OF SCREEN 10ft @ HEIGHT OR LENGTH OF SCREEN 1ft9in @
SCREEN CONDITION TRASH RACK
FRAME Good BAR SPACING 2in TRASH FENCE
MESH A 2in. hole in one panel RELATION TO SCREEN 10ft
SEALS good

DEBRIS LOCATION AND AMOUNT Trash rack plugged completely across the
SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION 16ft6in.
FLOW READINGS Max0.25 AMBIENT STREAM VELOCITY 0 INSPECTION DATE 04/20/79 TIME 1035
FISH BYPASS SYSTEM Spray wash screens & returns to river. FISH SPECIES SEEN Richardsonius sp.

INVENTORY NO. C1w004.OR
PUMP
NAME Hatwai Util. Assoc. Inc. ADDRESS 214 42nd Street North, Lewiston, ID 83501 PHONE
DIVERSION LOCATION
STATE ID COUNTY Nez Perce TOWN RIVER Clearwat RIVER MILE 004.0 BANK R QUAD.MAP Pullman SEC 28 T 36N R 05W
COL.R.STUDY REPT.NO. SITE NO. C OF E PUB. NOTICE DATE
C OF E PERMIT NO. 071-0YC-1-000257-75-14 DATE 05/08/75

WATER RIGHT
WATER RESOURCE AREA APPLICATION NO. PERMIT NO. CERTIFICATE NO. PRIORITY DATE
PERMIT DATE
QUANTITY-CFS ACRE FT/YR PURPOSE ACRES IRRIGATED
OTHER
ACCESS ROUTE PLD
PUMP INFORMATION TYPE OF STRUCTURE Cinder block
LOCATION FROM SHORELINE TO PUMPS -20ft LOCATION FROM PUMPS TO SCREENS +65ft
NUMBER HP SIZE OF TYPE OF
OF PUMPS EACH DISCHARGE DISCHARGE
1 25 6 Pipe
1 40

FISH SCREEN
PUMP NO.
SCREEN DESCRIPTION SCREEN CODE Pp2 DISTANCE FROM SHORELINE 45ft SHORE DIST. CODE +
TYPE OF SCREEN Pipe/holes (Corrugated) PERFORATION SIZE
SUBMERGENCE 6in TYPE OF MESH MATERIAL Corrig. Pipe MESH SIZE 0.25in WIRE SIZE
HOLES/INCH WIDTH OR DIAMETER OF SCREEN 3ft d HEIGHT OR LENGTH OF SCREEN 45ft
SCREEN CONDITION TRASH RACK
FRAME Good BAR SPACING TRASH FENCE
MESH Good RELATION TO SCREEN
SEALS

DEBRIS LOCATION AND AMOUNT
SEDIMENTATION SCOURING SURFACE WATER TEMP DEGREE F WATER ELEVATION
FLOW READINGS AMBIENT STREAM VELOCITY INSPECTION DATE 09/24/79 TIME 1500
FISH BYPASS SYSTEM FISH SPECIES SEEN

INVENTORY NO. C1w004.5L
PUMP

NAME City of Lewiston ADDRESS City Hall, Lewiston, ID 83501 PHONE
DIVERSION LOCATION
STATE ID COUNTY Nez Perce TOWN Lewiston RIVER Clearwat RIVER MILE 004.5 BANK L QUAD. MAP Pullman SEL
COLL.R. STUDY REPT. NO. SITE NO. C OF E PUB. NOTICE DATE 08/14/72
C OF E PERMIT NO. 071-0YC-1-000249-75-5 DATE 09/29/72

WATER RIGHT

WATER RESOURCE AREA ID L-3 APPLICATION NO. 867048 PERMIT NO. CERTIFICATE NO. PRIORITY DATE
PERMIT DATE

QUANTITY-CFS 7.9 ACRE FT/YR 0 PURPOSE ACRES IRRIGATED
OTHER Out in water concrete pipe with pump on top; screens were just replaced.

ACCESS ROUTE

PUMP INFORMATION TYPE OF STRUCTURE Concrete

LOCATION FROM SHORELINE TO PUMPS +/-10ft LOCATION FROM PUMPS TO SCREENS

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
2	75	15	Pipe

FISH SCREEN

PUMP NO.

SCREEN DESCRIPTION

TYPE OF SCREEN Unable to locate SCREEN CODE U DISTANCE FROM SHORELINE SHORE DIST. CODE ++

SUBMERGENCE TYPE OF MESH MATERIAL MESH SIZE 0.25in WIRE SIZE PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

FRAME

MESH Unable to see. (New)

SEALS

TRASH RACK
BAR SPACING 2in TRASH FENCE
RELATION TO SCREEN Unknown.

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION Silted in heavily.

FLOW READINGS

FISH BYPASS SYSTEM

SCOURING
AMBIENT STREAM VELOCITY

SURFACE WATER TEMP DEGREE F 60 WATER ELEVATION
INSPECTION DATE 09/24/79 TIME 1430
FISH SPECIES SEEN Notropis sp.

INVENTORY NO. Umt001.1L

PUMP

NAME West Extension Irrigation Co. ADDRESS ,,

PHONE

DIVERSION LOCATION

STATE OR COUNTY Umatilla TOWN Umatilla RIVER Umatilla RIVER MILE 001.1 BANK L QUAD.MAP Pendleton SEC 05 T 05N R 28E

CDL.R.STUDY REPT.NO. 32 SITE NO. JD72.5 C OF E PUB. NOTICE 68-8

DATE

C OF E PERMIT NO. 1507-24-1

DATE 03/04/68

WATER RIGHT

WATER RESOURCE AREA DR07 APPLICATION NO. 45384 PERMIT NO. 33883 CERTIFICATE NO.

PRIORITY DATE

PERMIT DATE 09/12/68

QUANTITY-CFS ACRE FT/YR PURPOSE Irrigation

ACRES IRRIGATED 10210

OTHER There is a long channel from river to pumps.

PUD

ACCESS ROUTE

TYPE OF STRUCTURE Concrete

PUMP INFORMATION

LOCATION FROM SHORELINE TO PUMPS +-

LOCATION FROM PUMPS TO SCREENS +-

NUMBER OF PUMPS	HP EACH	SIZE OF DISCHARGE (INCHES)	TYPE OF DISCHARGE
2	500	12	Pipe
1	200	10	Pipe
1	900	18	Pipe
3	600	20	Pipe

REMARKS The 3 600 Hp pumps have the panel screen.

FISH SCREEN

PUMP NO. 1-2

SCREEN DESCRIPTION

TYPE OF SCREEN Wire on bottom of pump SCREEN CODE Cy2 DISTANCE FROM SHORELINE Eddy SHORE DIST. CODE +-

SUBMERGENCE 5ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.05in WIRE SIZE PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 1ft1in d HEIGHT OR LENGTH OF SCREEN 1ft8in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE Cyclone

MESH

RELATION TO SCREEN 4ft

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 8ft4in

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 4/26/78

TIME 1000

FISH BYPASS SYSTEM

FISH SPECIES SEEN

FISH SCREEN

PUMP NO. 3

SCREEN DESCRIPTION

TYPE OF SCREEN On bottom of pump SCREEN CODE Cy2 DISTANCE FROM SHORELINE - SHORE DIST. CODE +-

SUBMERGENCE 5ft TYPE OF MESH MATERIAL Wire MESH SIZE 0.5in WIRE SIZE PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN 2ft2in d HEIGHT OR LENGTH OF SCREEN 1ft6in

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING

TRASH FENCE Cyclone

MESH

RELATION TO SCREEN Next to pump

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION 4ft8in

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 04/26/78

TIME 1000

FISH BYPASS SYSTEM

FISH SPECIES SEEN

FISH SCREEN

PUMP NO. 4-6

SCREEN DESCRIPTION

TYPE OF SCREEN Panel SCREEN CODE P1 DISTANCE FROM SHORELINE - SHORE DIST. CODE +-

SUBMERGENCE TYPE OF MESH MATERIAL Wire MESH SIZE 0.25in WIRE SIZE PERFORATION SIZE

HOLES/INCH WIDTH OR DIAMETER OF SCREEN HEIGHT OR LENGTH OF SCREEN

SCREEN CONDITION

TRASH RACK

FRAME

BAR SPACING 6in

TRASH FENCE

MESH There was no screen below the water surface

RELATION TO SCREEN

SEALS

DEBRIS LOCATION AND AMOUNT

SEDIMENTATION

SCOURING

SURFACE WATER TEMP DEGREE F

WATER ELEVATION

FLOW READINGS

AMBIENT STREAM VELOCITY

INSPECTION DATE 04/26/78

TIME 1000

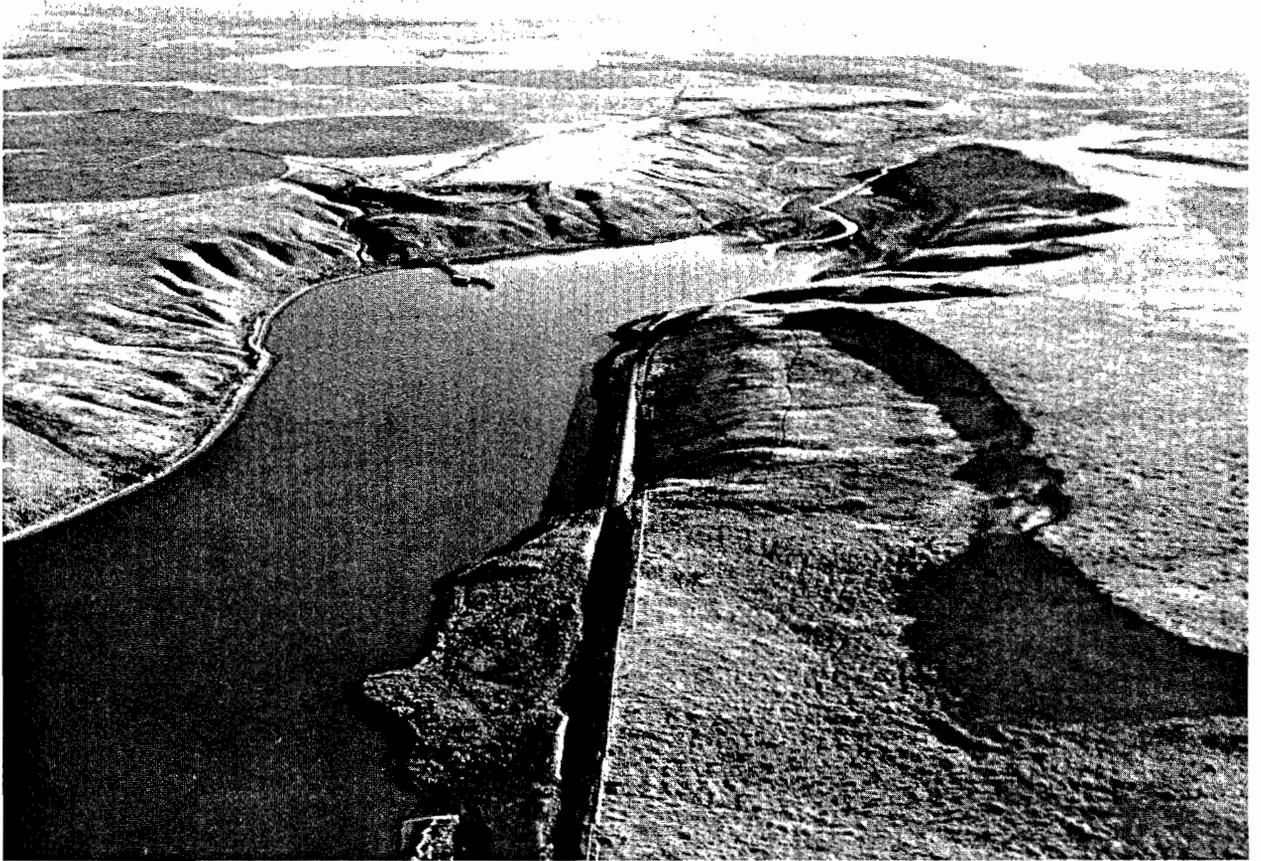
FISH BYPASS SYSTEM

FISH SPECIES SEEN

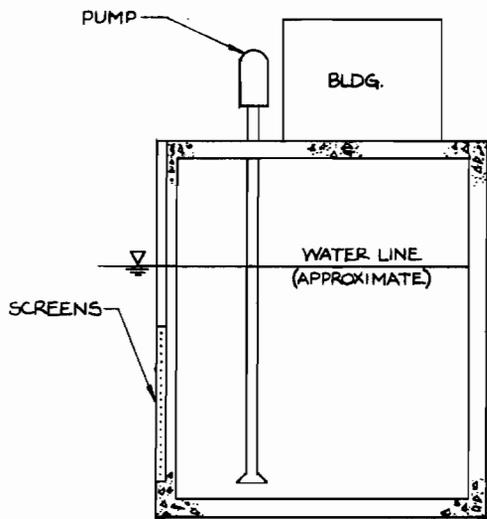
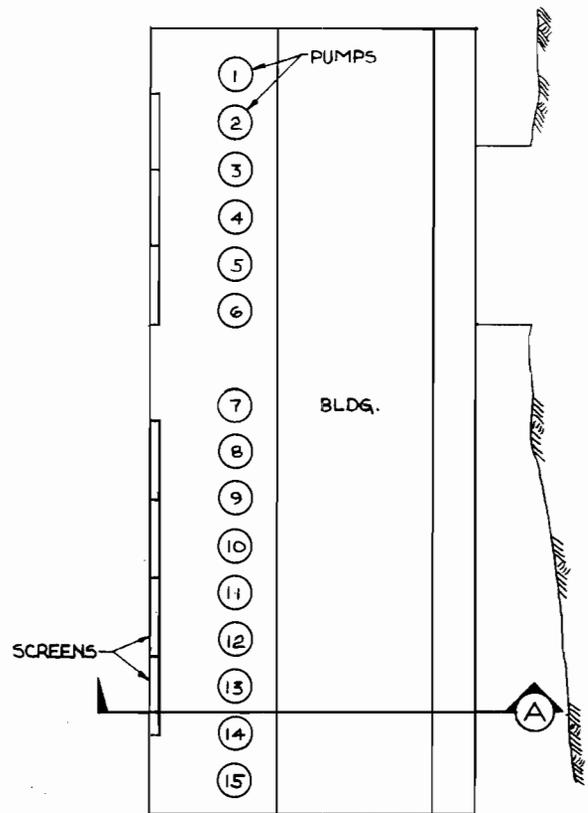
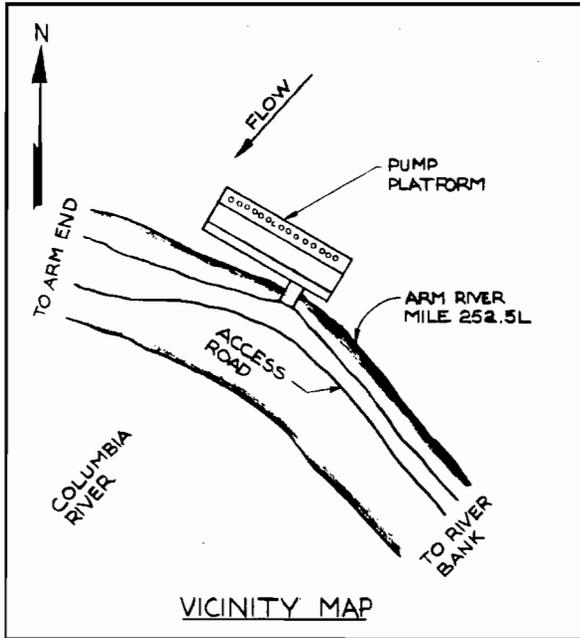
APPENDIX B

DRAWINGS AND PHOTOS OF SELECTED SITES ILLUSTRATING THE VARIETY OF INTAKES,
ETC. IN THE STUDY AREA¹

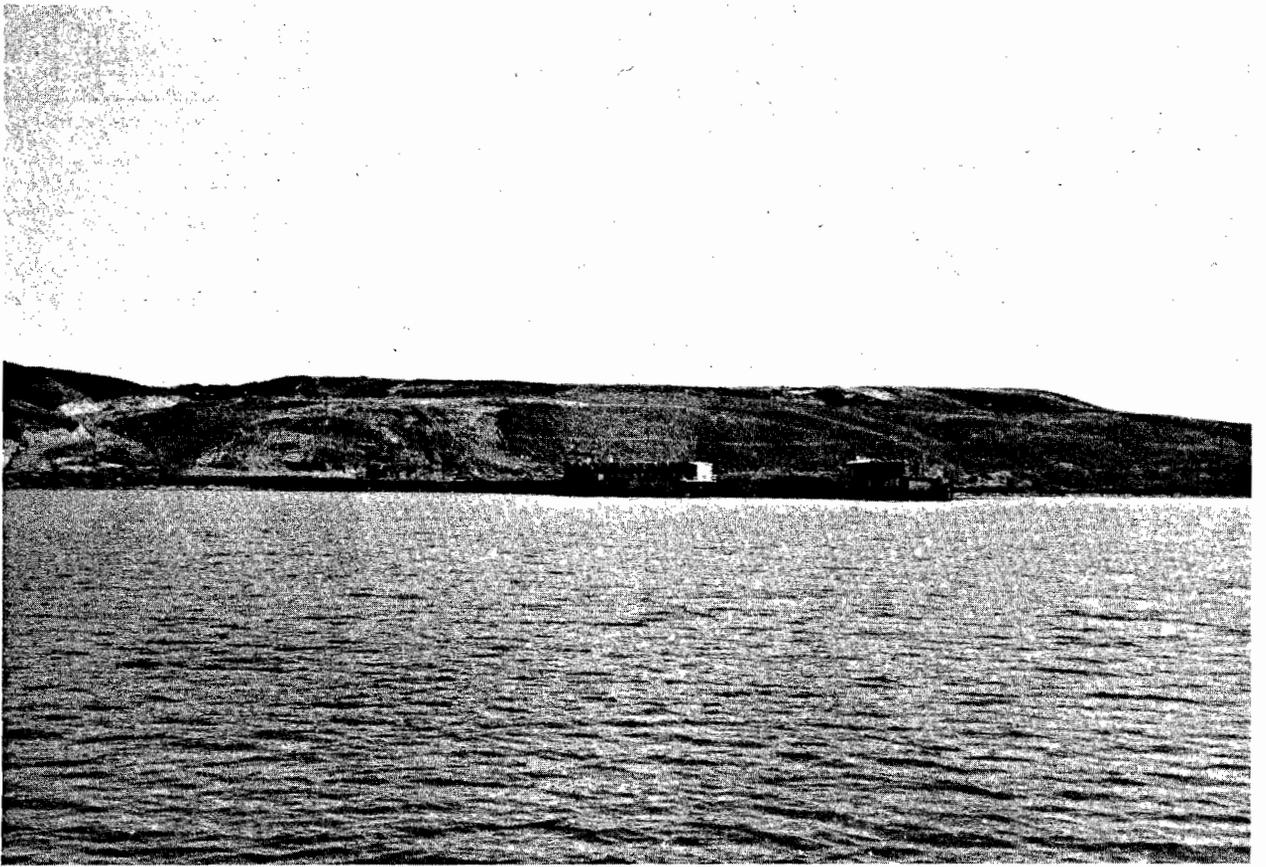
¹ Drawings by Brian Wagner, U.S. Fish and Wildlife Service, 500 NE Multnomah, Portland, Oregon 97232



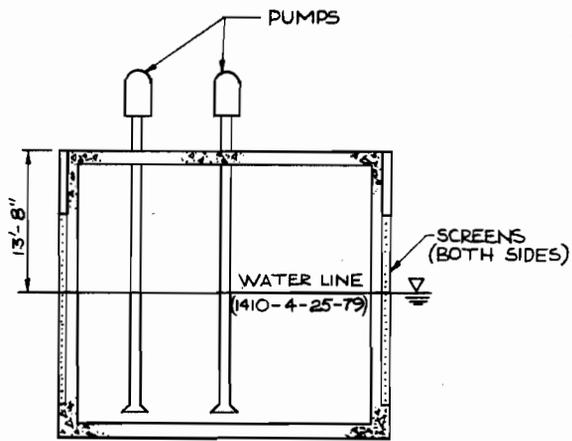
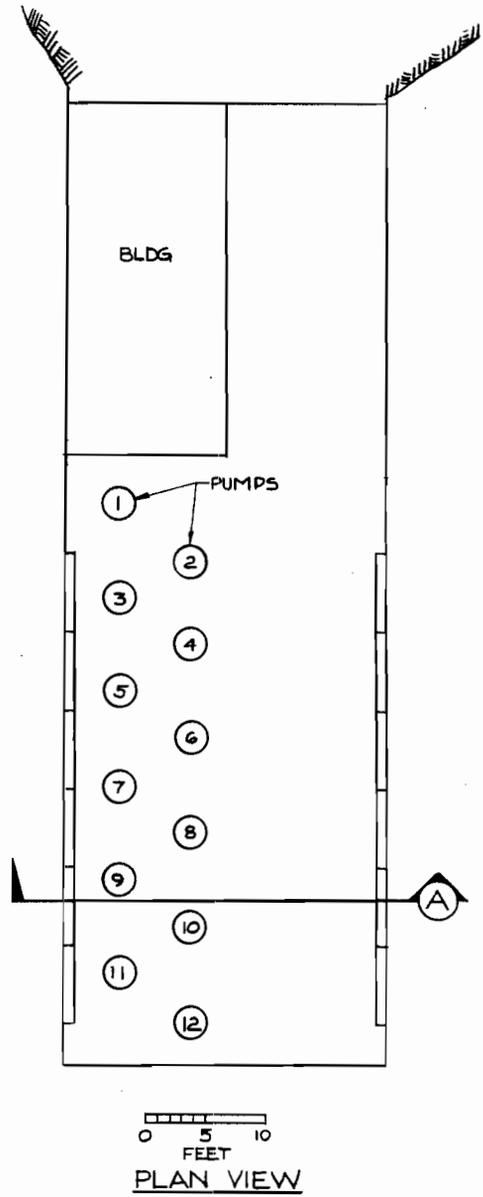
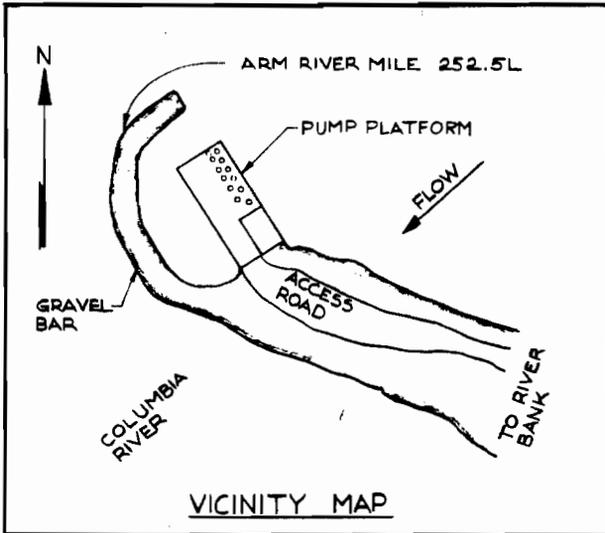
Col252.5LC—Boeing Agriculture Industrial Company



- NOTES:
- DIM. MAY BE APPROXIMATED FROM DRAWING.
 - | PUMPS | H.P. | DISCHARGE DIA. (INCHES). |
|-------|------|--------------------------|
| 1 | 200 | 8 |
| 2-14 | 600 | 12 |
| 15 | 400 | 10 |
 - STATIONARY SCREENS:
PUMP SCREEN MESH SIZE: 14 GA. WITH 0.125 IN. CLEAR OPENING (SCREENS SLIDE OUT FOR CLEANING).
 - WATER LINE IS APPROXIMATE AND WILL FLUCTUATE WITH RESERVOIR OPERATIONS.



Col252.5LC—Boeing Agriculture Industrial Company

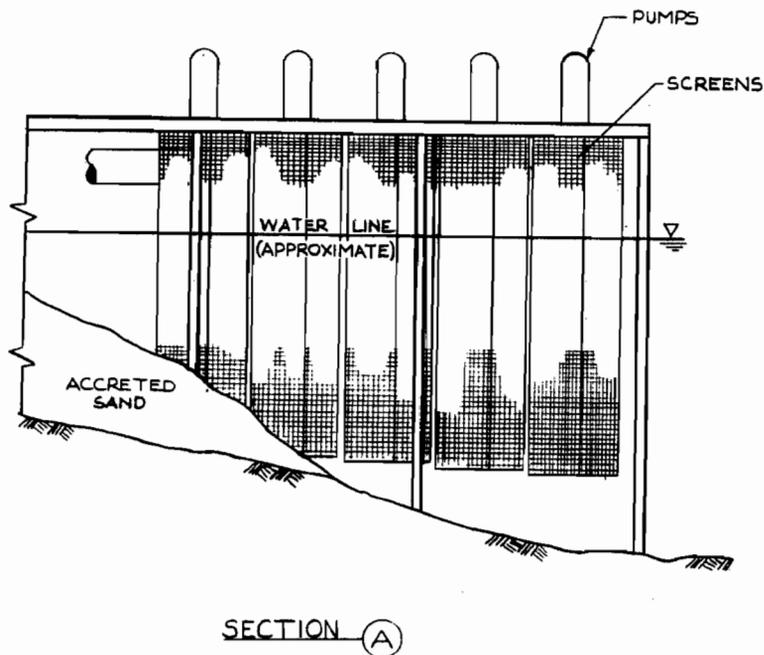
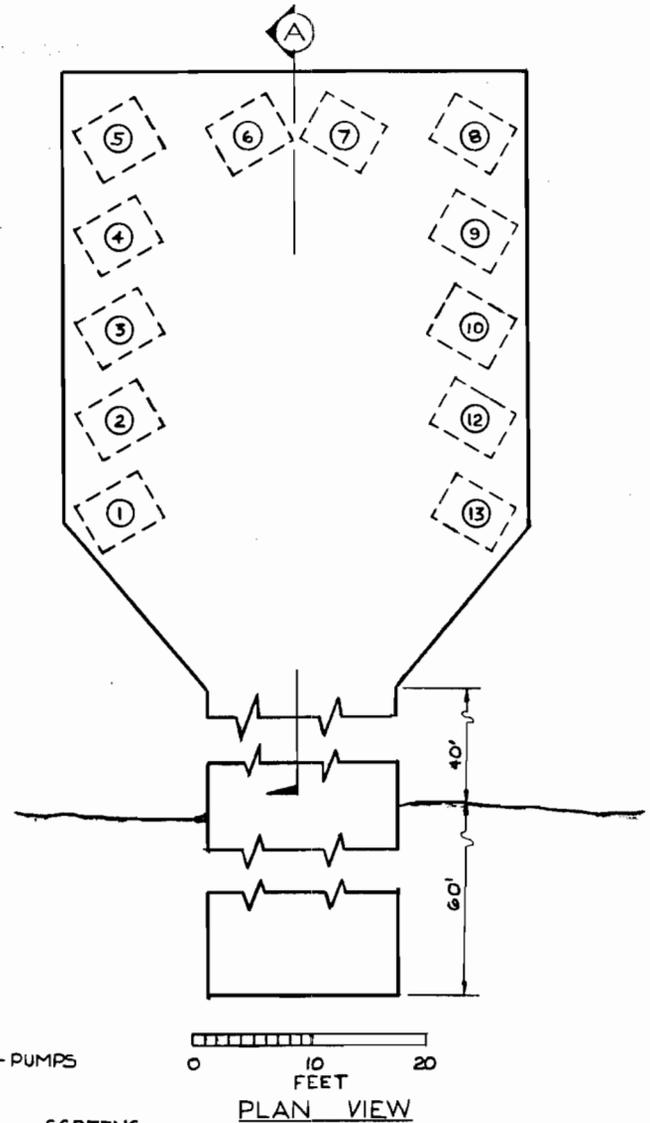
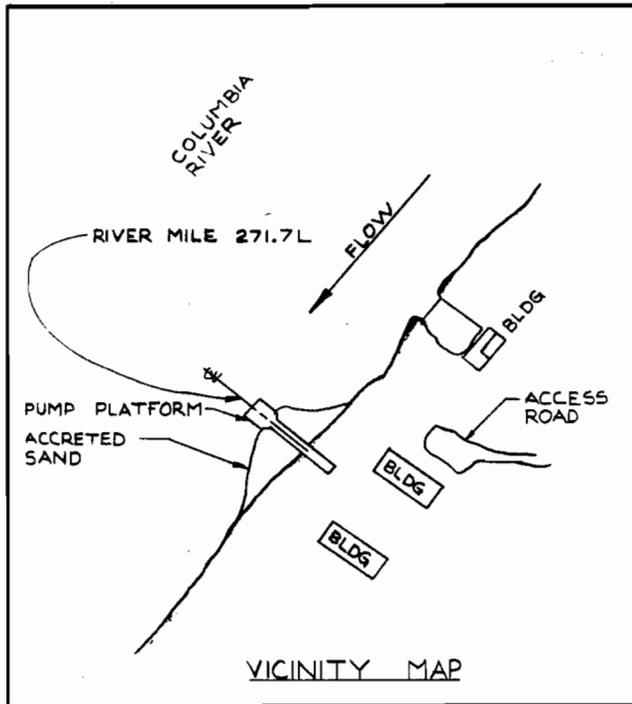


SECTION A

- NOTES:
- 1 DIM. MAY BE APPROXIMATED FROM DRAWING.
 - 2 PUMPS H.P. DISCHARGE DIA. (INCHES)
1-12 1250 18
 - 3 STATIONARY SCREENS:
PUMP SCREEN MESH SIZE: 14 GA. WITH 0.125 IN. CLEAR OPENING (SCREENS SLIDE OUT FOR CLEANING).
 - 4 WATER LINE IS APPROXIMATE AND WILL FLUCTUATE WITH RESERVOIR OPERATIONS.

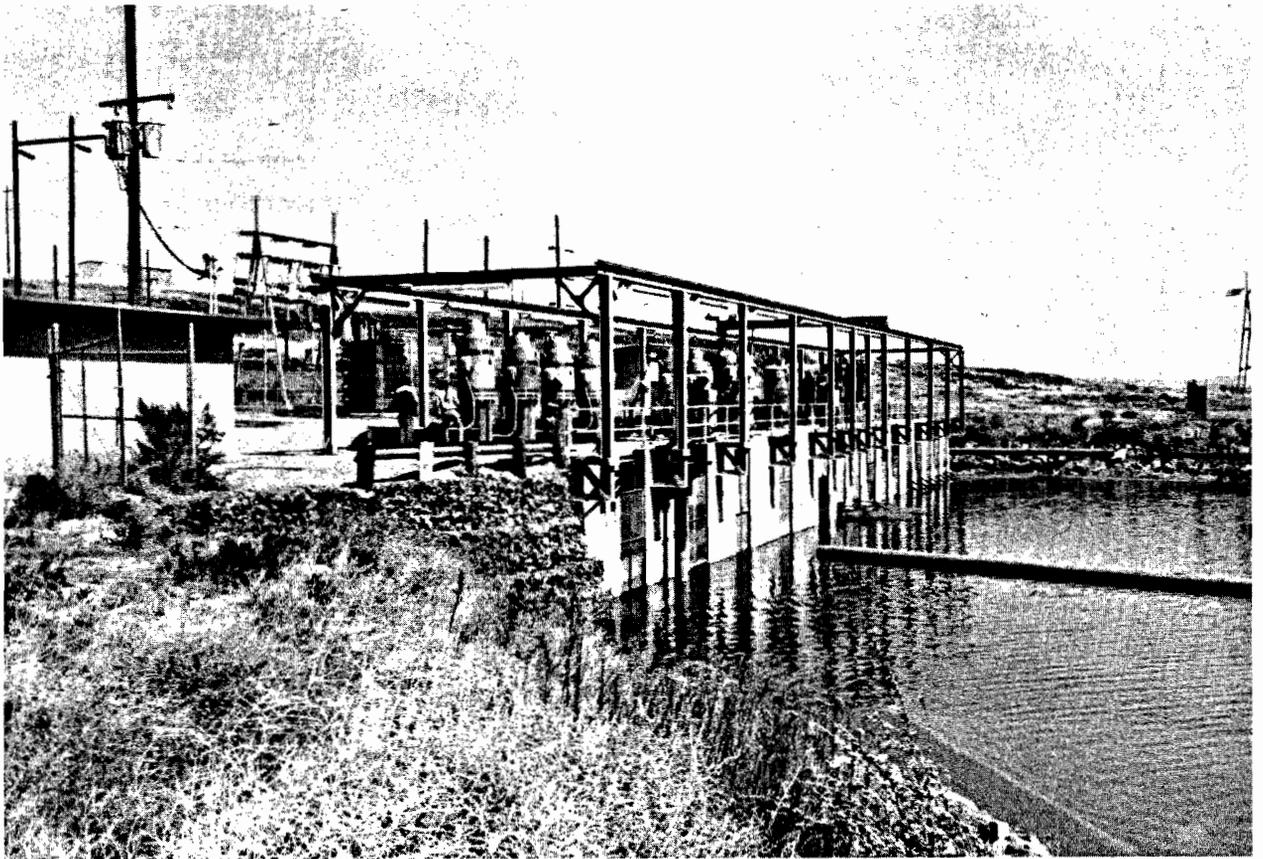
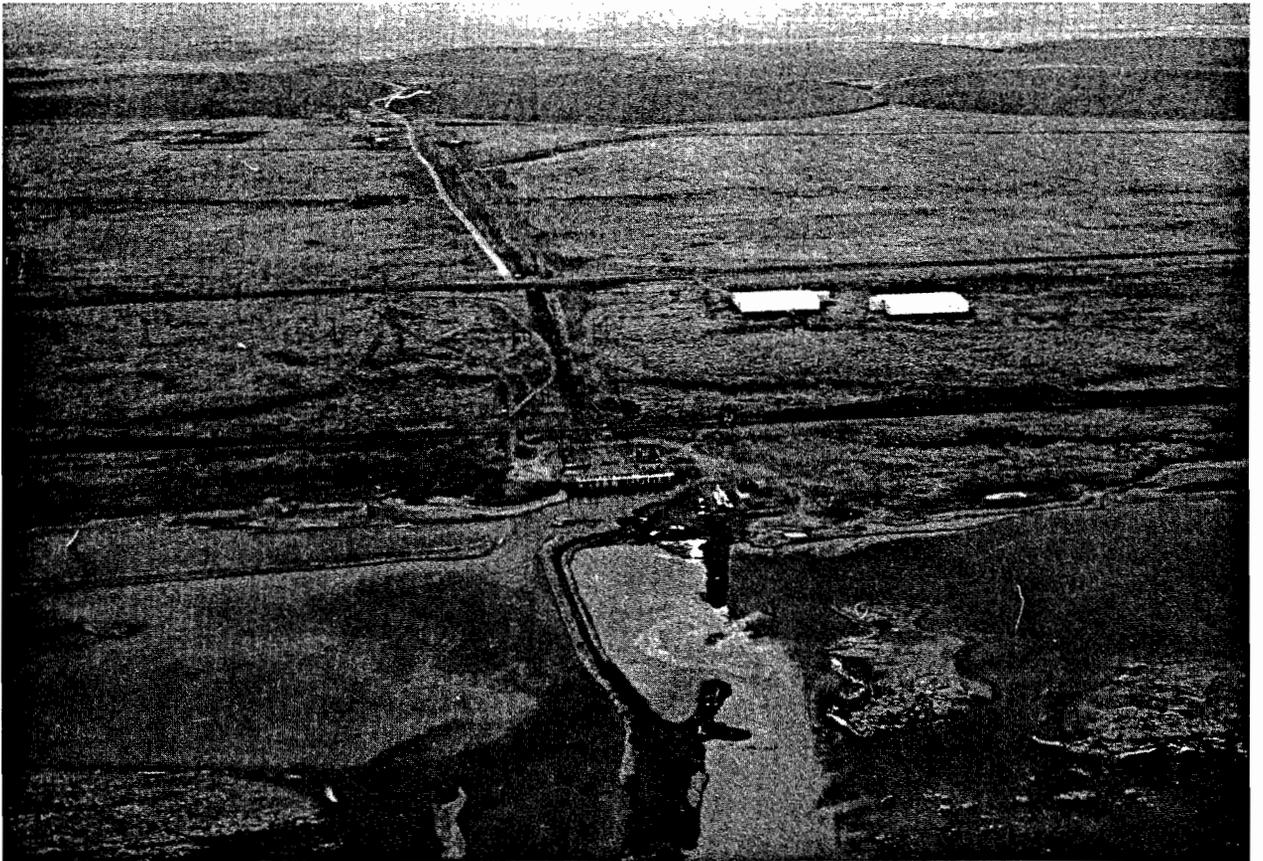


Col271.7LA-B—Eastern Oregon Farming Company, Inc., Saber Farms, Inc.

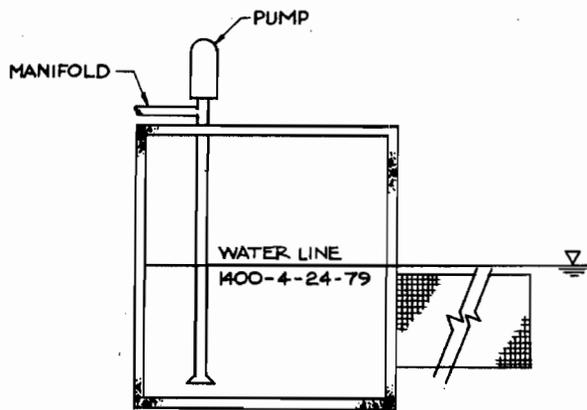
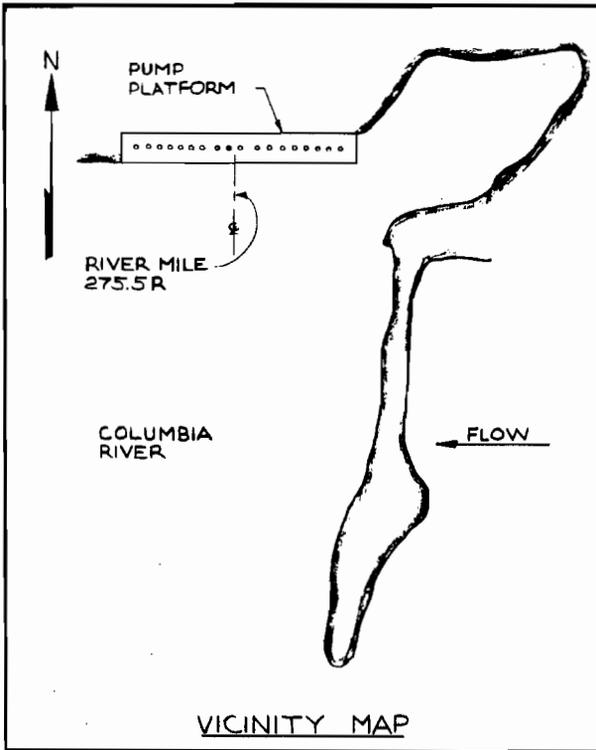


- NOTES:
- 1 DIM MAY BE APPROXIMATED FROM DRAWING.
 - 2 PUMPS H.P. DISCHARGE DIA (INCHES).

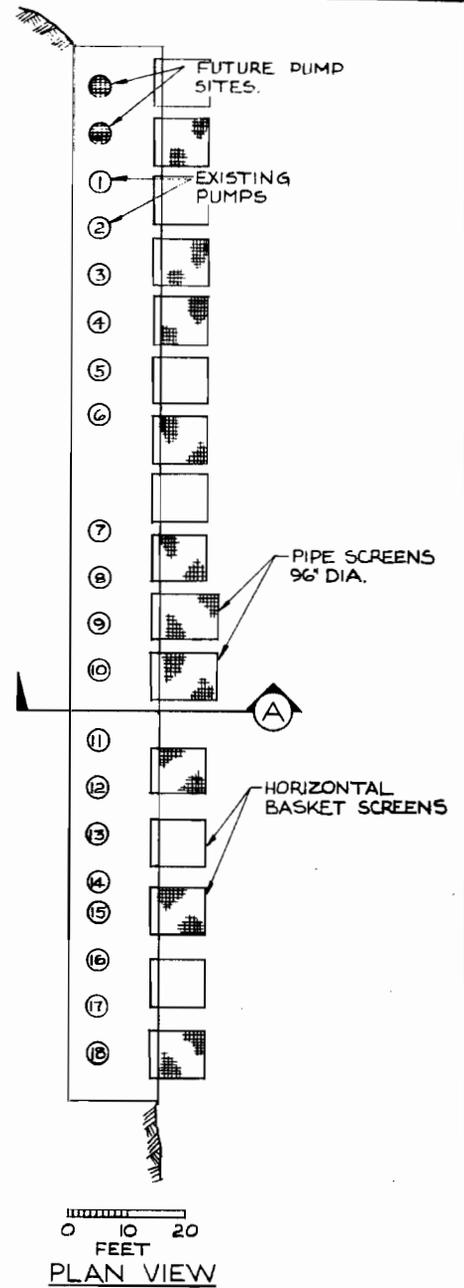
1-6	500	NOT GIVEN
7	300	"
8-10	250	"
11-12	150	"
 - 3 STATIONARY SCREENS:
PUMP SCREEN MESH SIZE: 16 GA.
WITH 0.125 IN CLEAR OPENING
(3 SEPARATE PANELS SLIDE OUT FOR CLEANING).
 - 4 WATER LINE IS APPROXIMATE AND WILL FLUCTUATE WITH RESERVOIR OPERATIONS.



Col275.5R—Paterson Irrigation Project Landowners

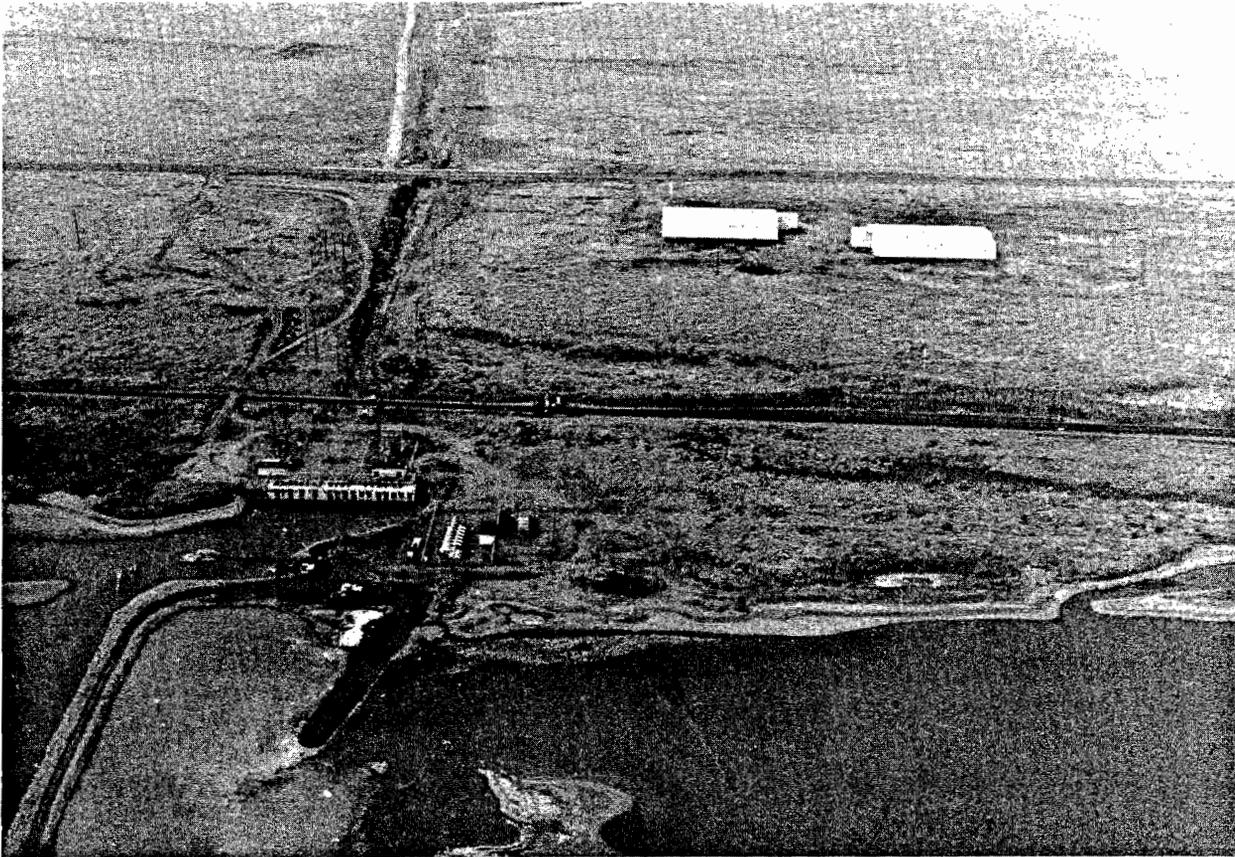


0 5 10
FEET
SECTION A

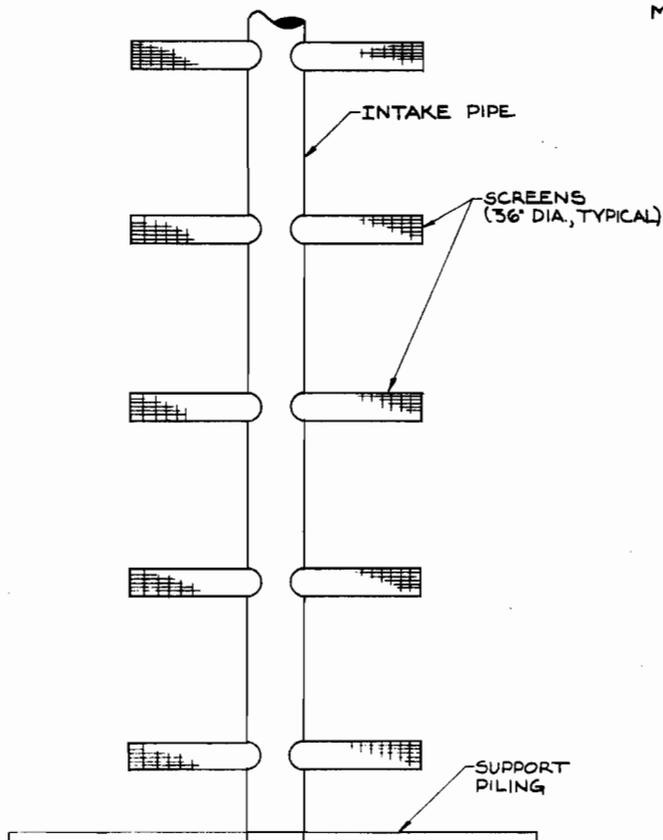
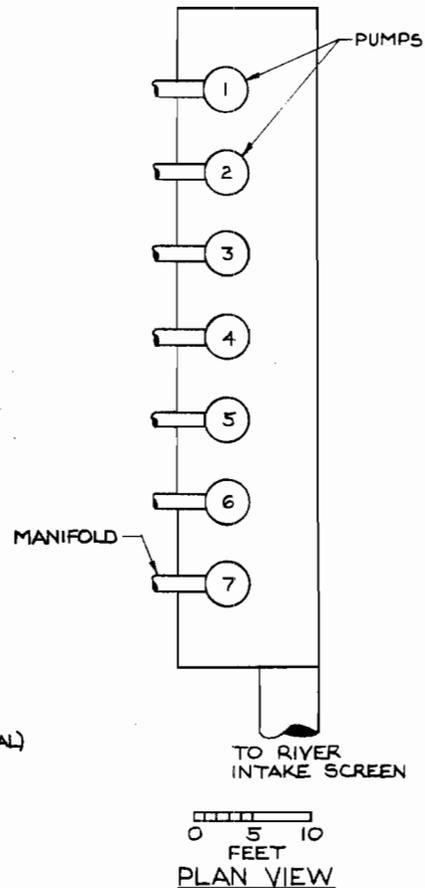
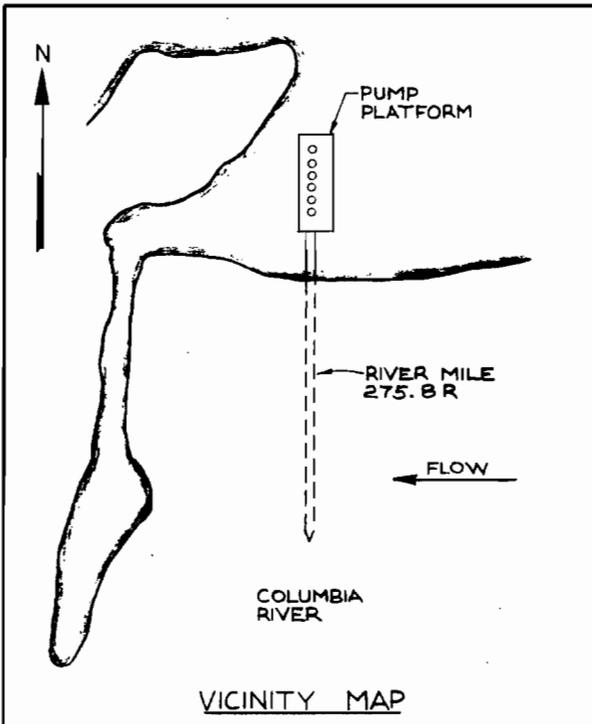


- NOTES:
- 1 DIM. MAY BE APPROXIMATED FROM DRAWING.
 - 2 PUMPS H.P. DISCHARGE DIA.(INCHES)

1-4	1500	15
5,6	250	10
7-10,18	1000	15
11-16	700	15
17	800	15
 - 3 STATIONARY SCREENS:
PUMP SCREEN MESH SIZE: 14 GA. WITH 0.187 CLEAR OPENING (SCREENS SLIDE OUT FOR CLEANING).
 - 4 WATER LINE IS APPROXIMATE AND WILL FLUCTUATE WITH RESERVOIR OPERATIONS.

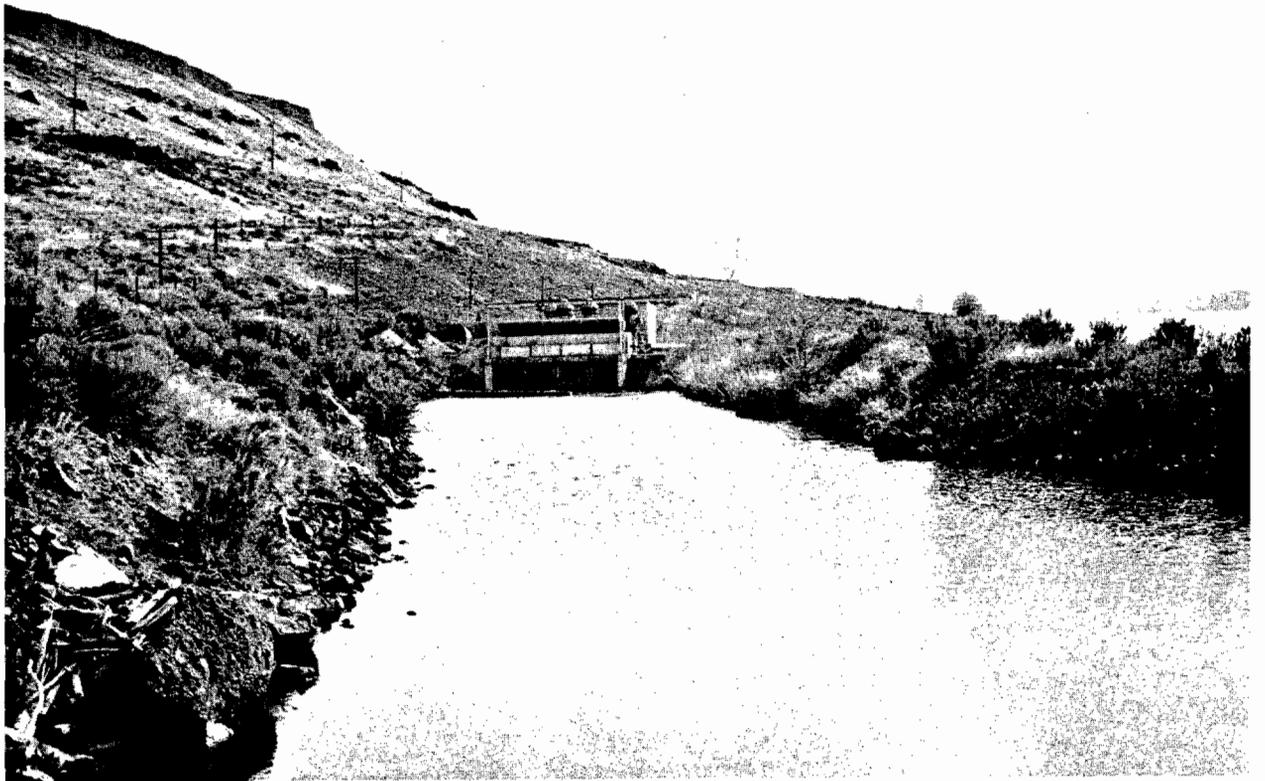
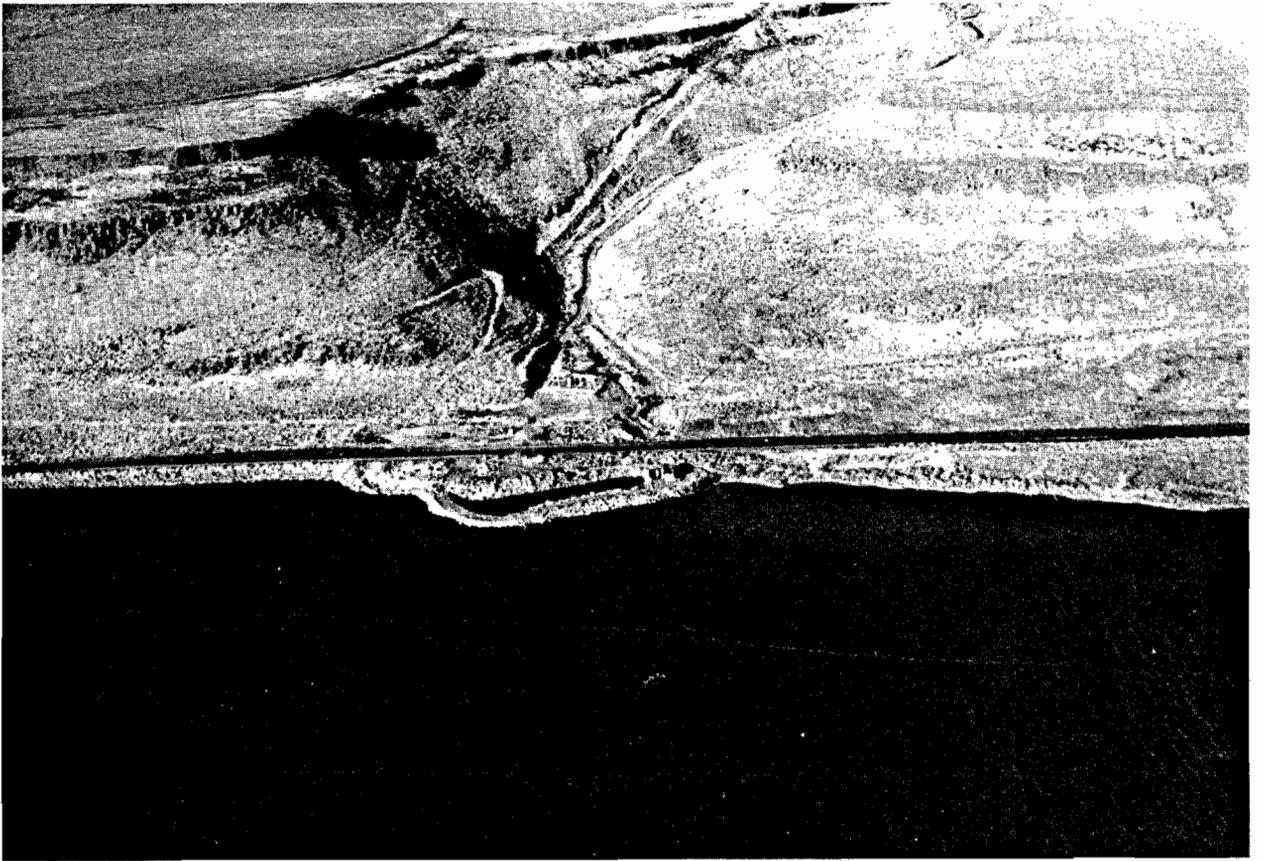


Col275.8R—Lorin Munn

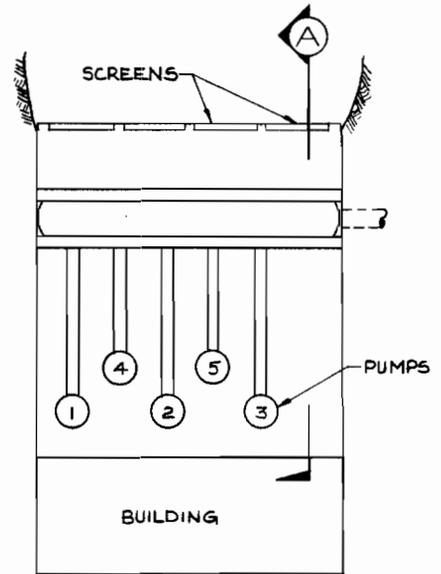
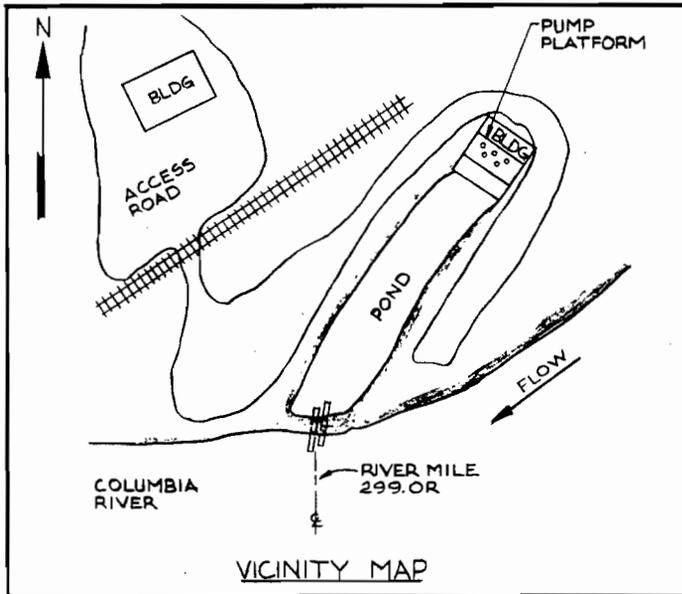


RIVER INTAKE SCREEN
(SCALE SAME AS ABOVE)

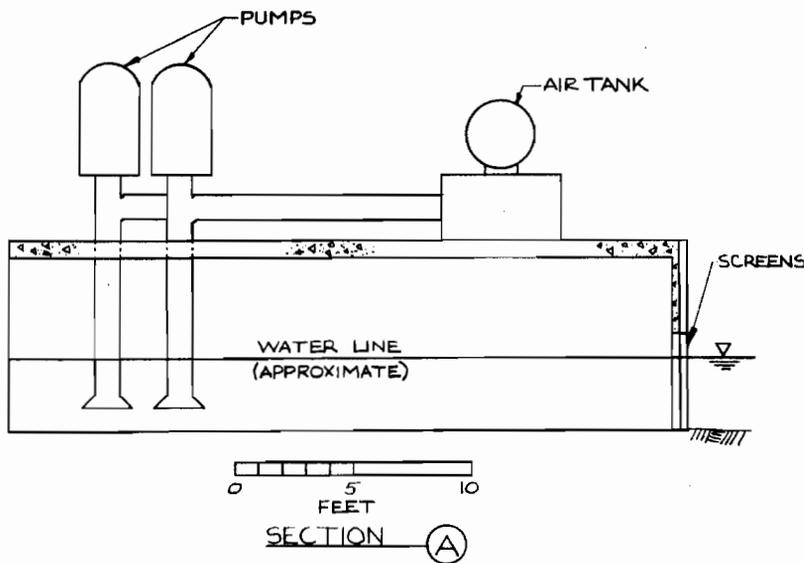
- NOTES:
- 1 DIM. MAY BE APPROXIMATED FROM DRAWING.
 - 2 PUMPS H.P. DISCHARGE DIA.(INCHES)
1-7 2000 24
 - 3 STATIONARY SCREENS:
A) JOHNSON WEDGE WIRE SCREEN
SIZE: 0.14 IN. CLEAR OPENING (CLEANED IN PLACE BY FORCED AIR).



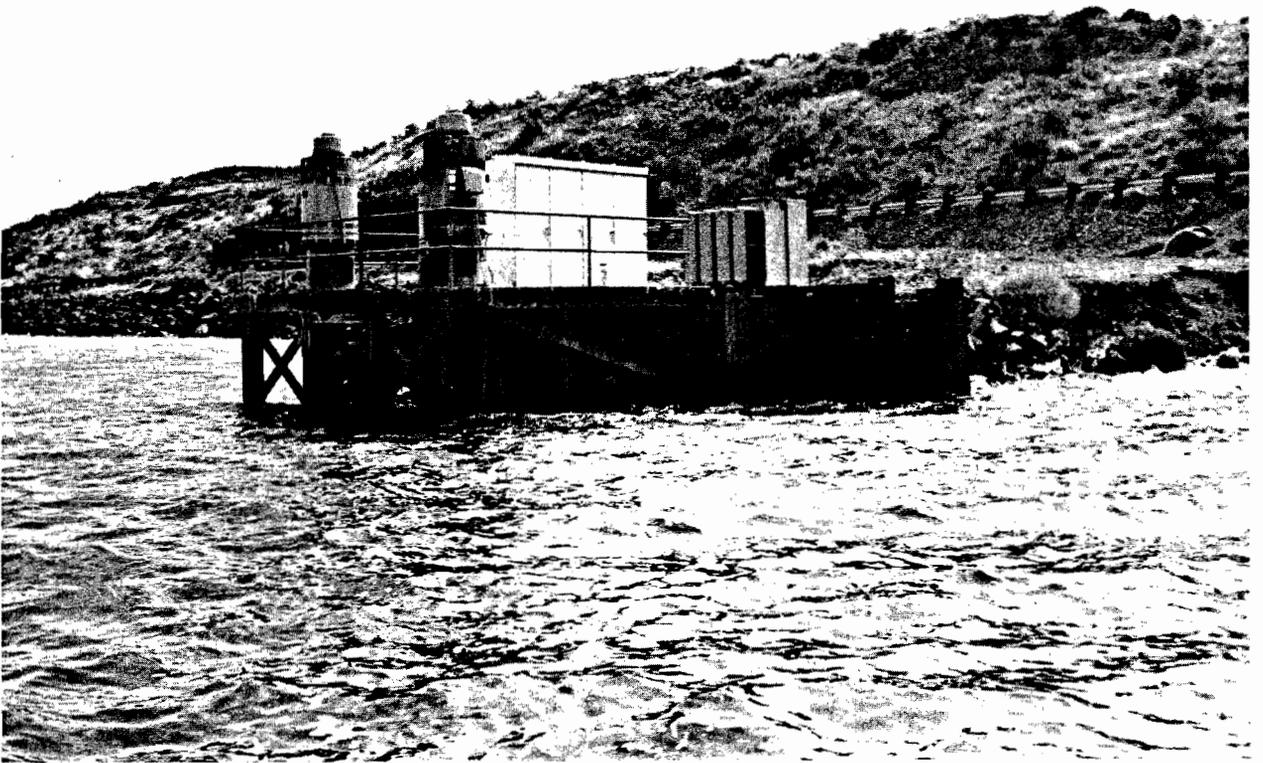
Col299.0R—Charlie Cox



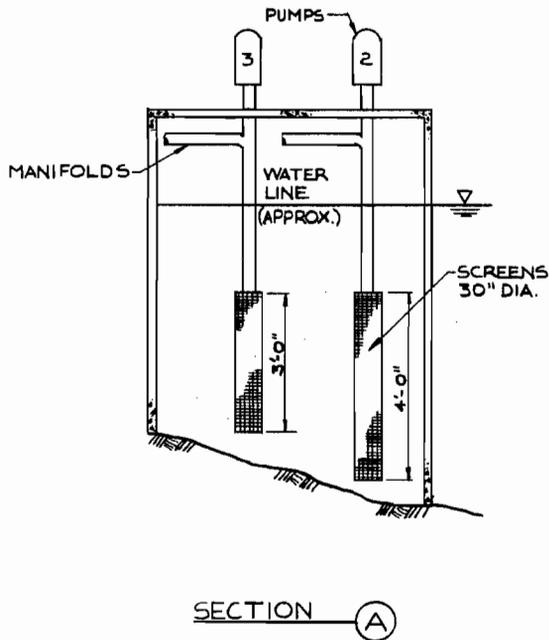
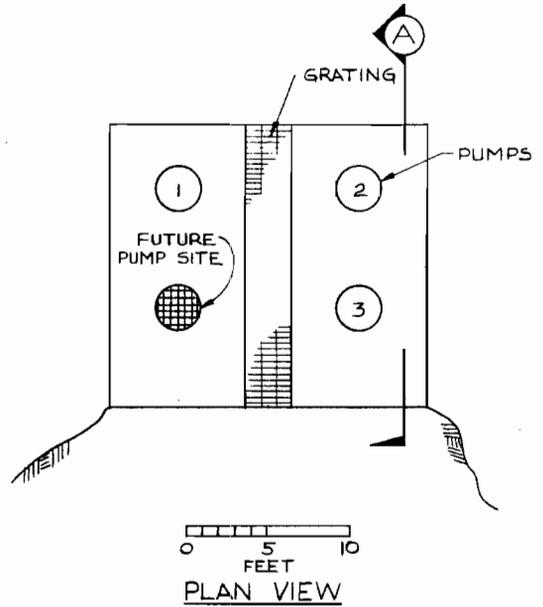
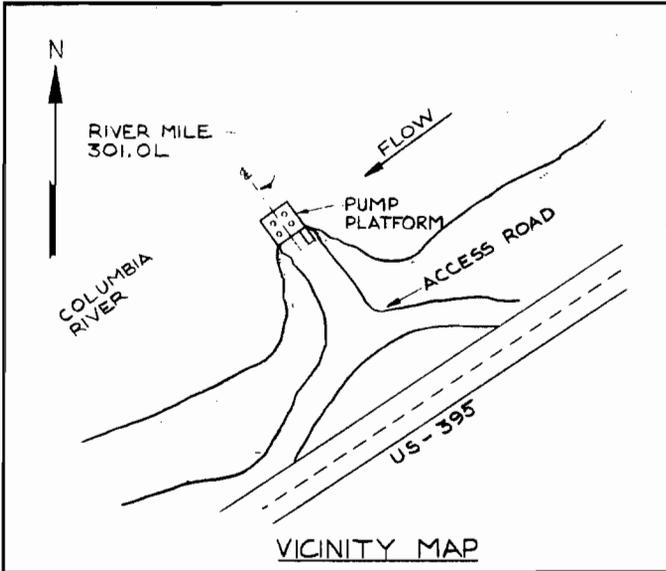
0 5 10
FEET
PLAN VIEW



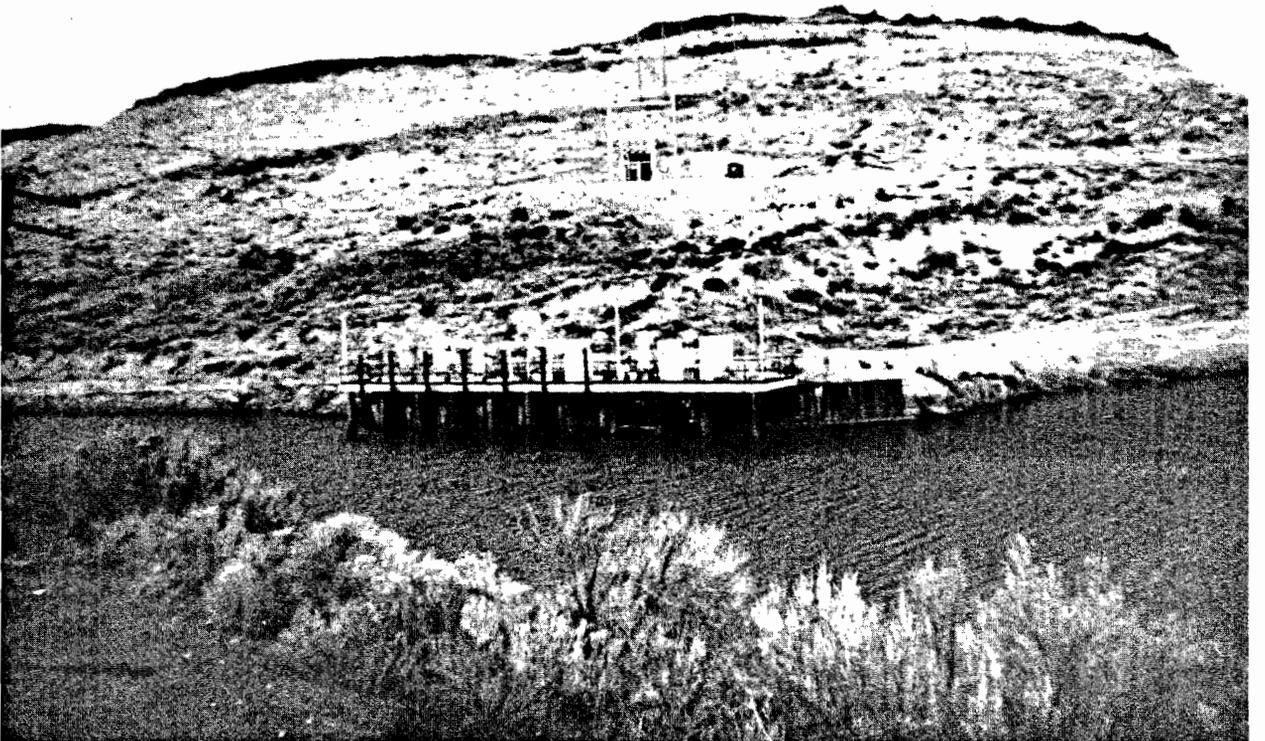
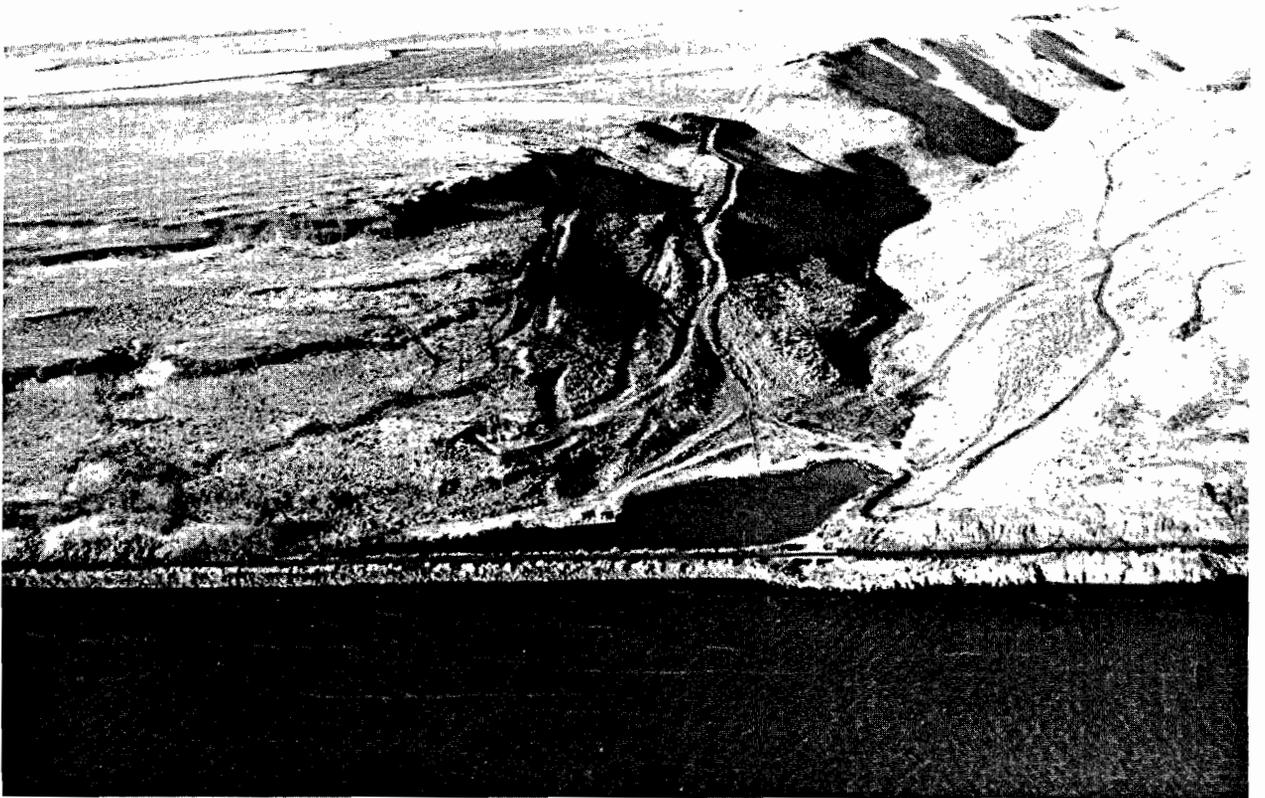
- NOTES:
- 1 DIM. MAY BE APPROXIMATED FROM DRAWING.
 - 2 PUMPS H.P. DISCHARGE DIA.(INCHES)
1-5 1000 12
 - 3 STATIONARY SCREENS:
A) CULVERT BAR SCREEN SIZE: 1 IN. BARS WITH 3 IN. CLEAR OPENING SQ. (CLEANED IN PLACE).
B) PUMP SCREEN MESH SIZE: 10 GA. WITH 0.125" CLEAR OPENING (SCREENS SLIDE OUT FOR CLEANING).
 - 4 WATER LINE IS APPROXIMATE AND WILL FLUCTUATE WITH RESERVOIR OPERATIONS.



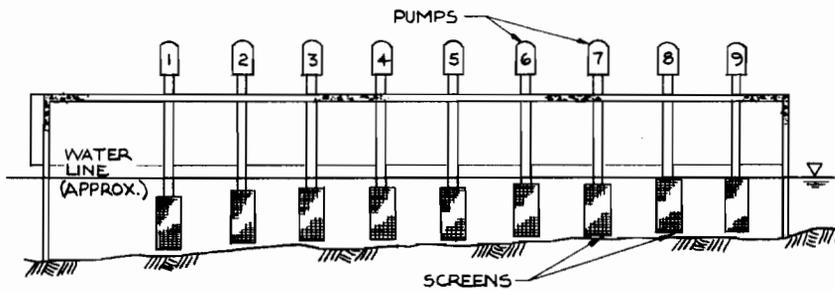
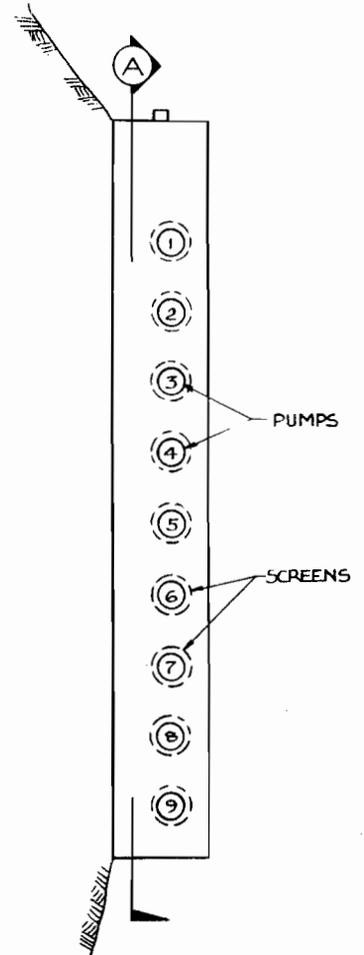
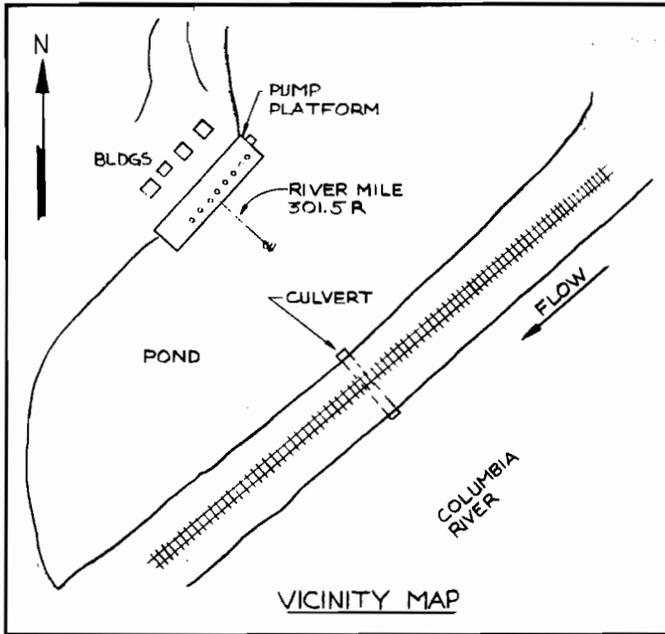
Col301.0L—Bradshaw



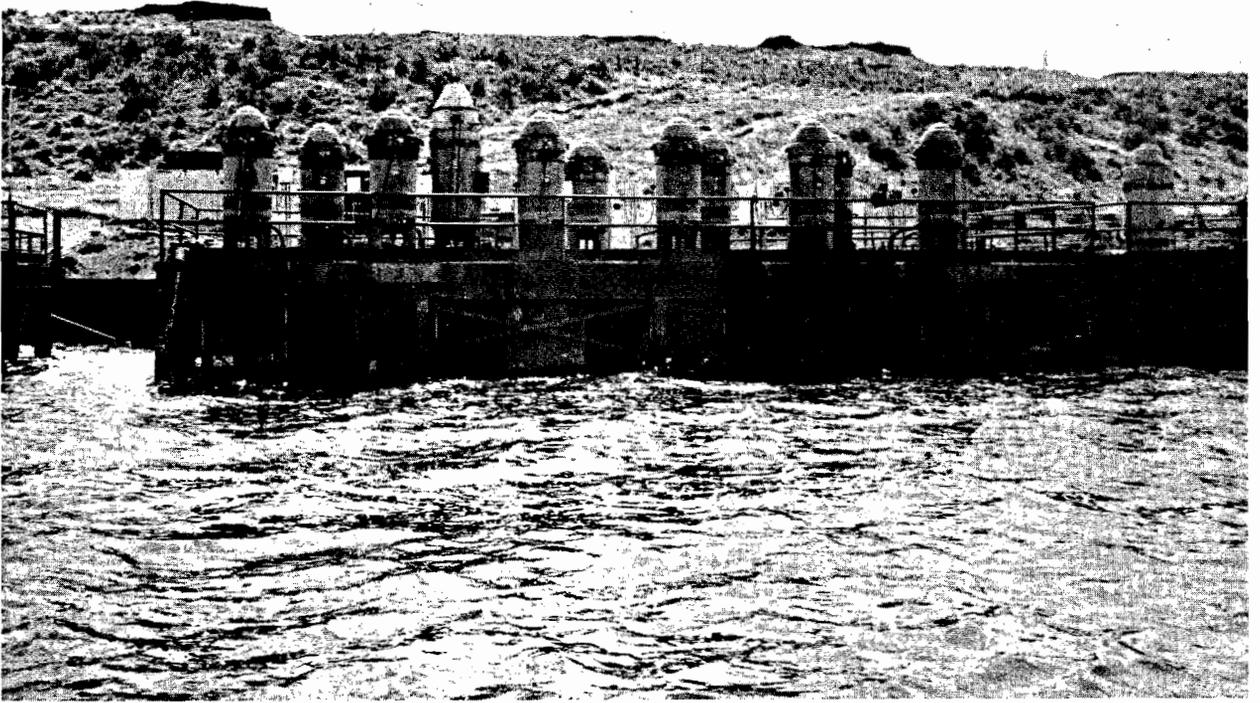
- NOTES:
- 1 DIM. MAY BE APPROXIMATED FROM DRAWING.
 - 2 PUMPS H.P. DISCHARGE DIA.(INCHES)
 1-2 900 18
 3 250 14
 - 3 STATIONARY SCREENS:
 A) PUMP SCREEN MESH SIZE: 14 GA. WITH
 0.125 IN. CLEAR OPENING (SCREENS CLEANED
 IN PLACE).
 - 4 WATER LINE IS APPROXIMATE AND WILL
 FLUCTUATE WITH RESERVOIR OPERATIONS.



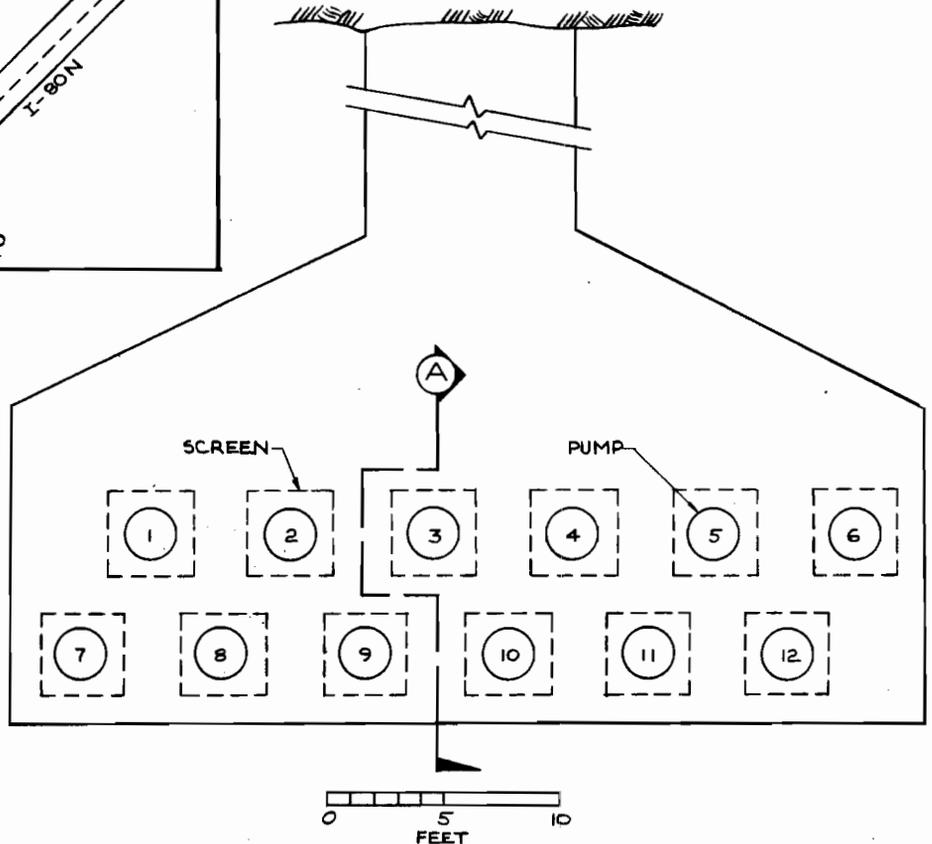
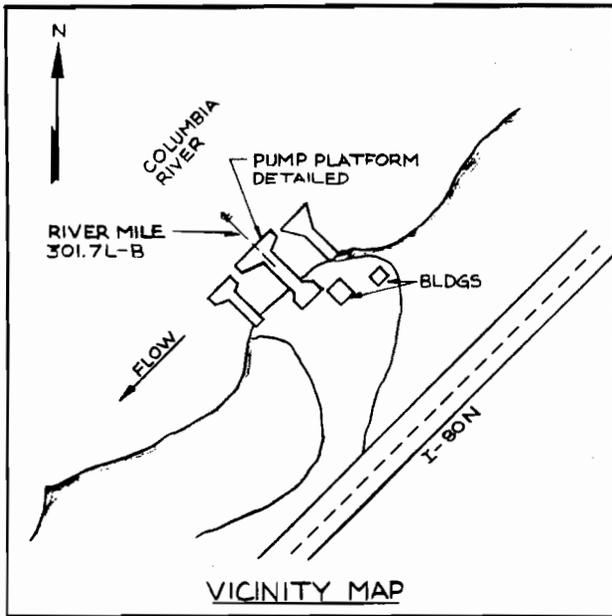
Col301.5R—Irrigo Limited Partnership



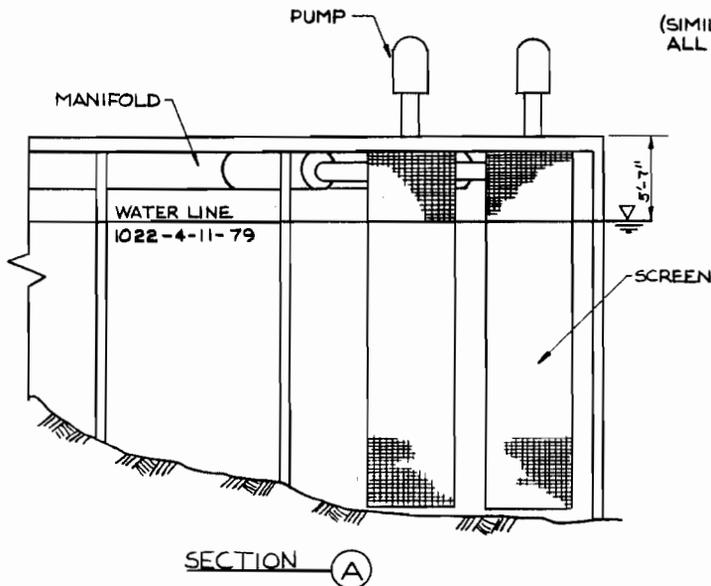
- NOTES:
- DIM. MAY BE APPROXIMATED FROM DRAWING.
 - | PUMPS | H.P. | DISCHARGE DIA.(INCHES) |
|-------|------|------------------------|
| 1-2 | 700 | 12 |
| 3 | 900 | 14 |
| 4 | 300 | 10 |
| 5 | 600 | 12 |
| 6,9 | 500 | 12 |
| 7-8 | 1000 | 14 |
 - STATIONARY SCREENS:
PUMP SCREEN MESH SIZE: 16 GA. WITH 0.125 IN. CLEAR OPENING (SCREEN IS CLEANED IN PLACE).
 - WATER LINE IS APPROXIMATE AND WILL FLUCTUATE WITH RESERVOIR OPERATIONS.



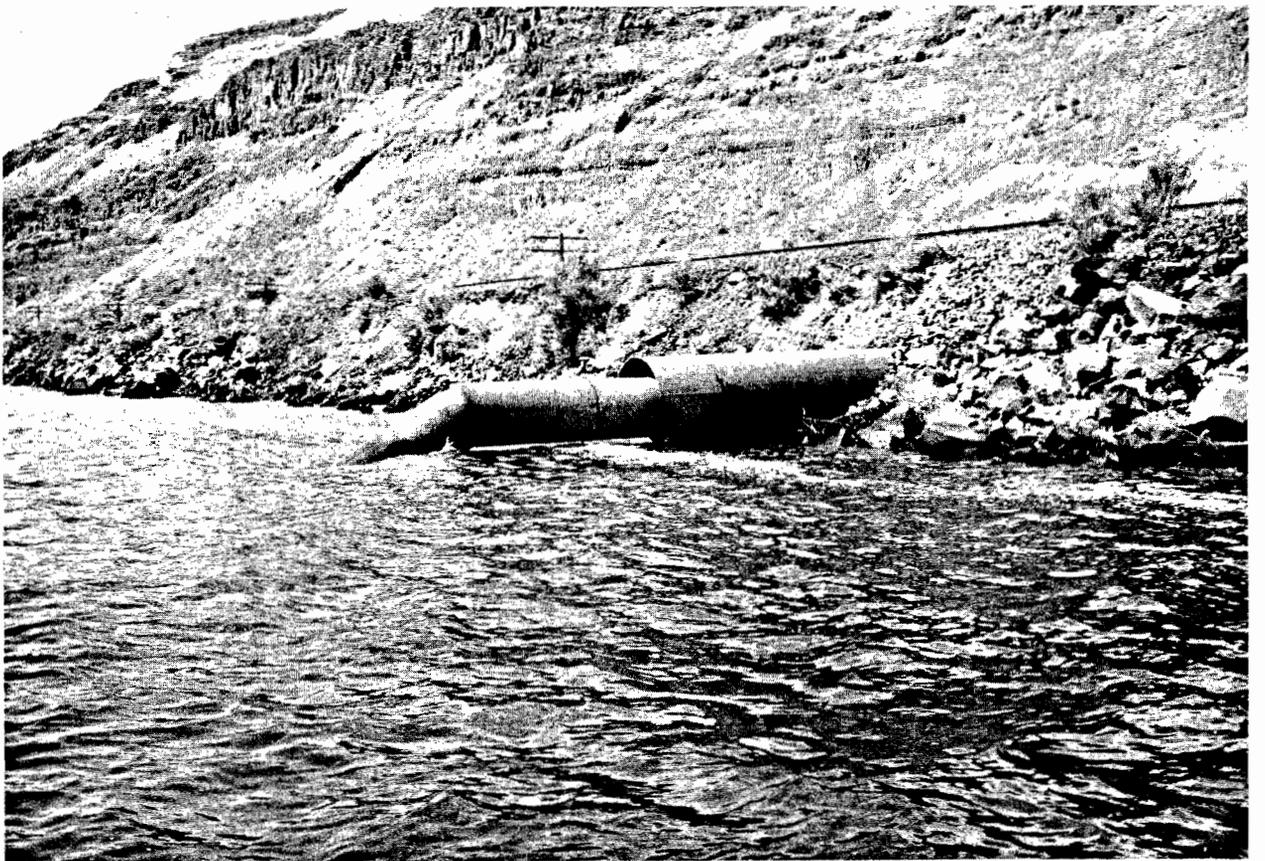
Col301.7LB—Mikami Brothers



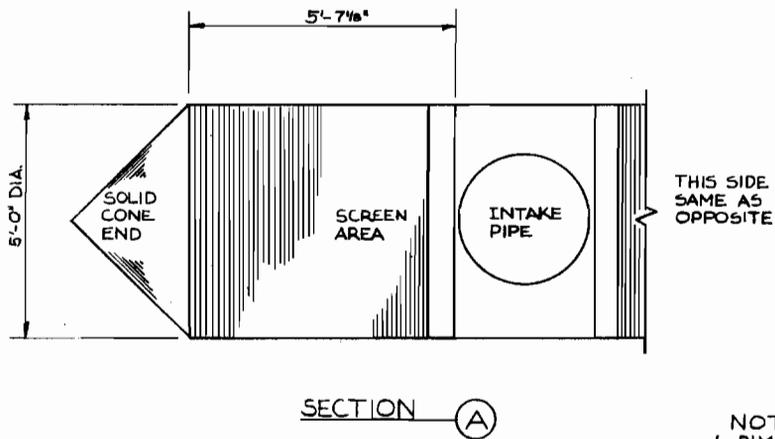
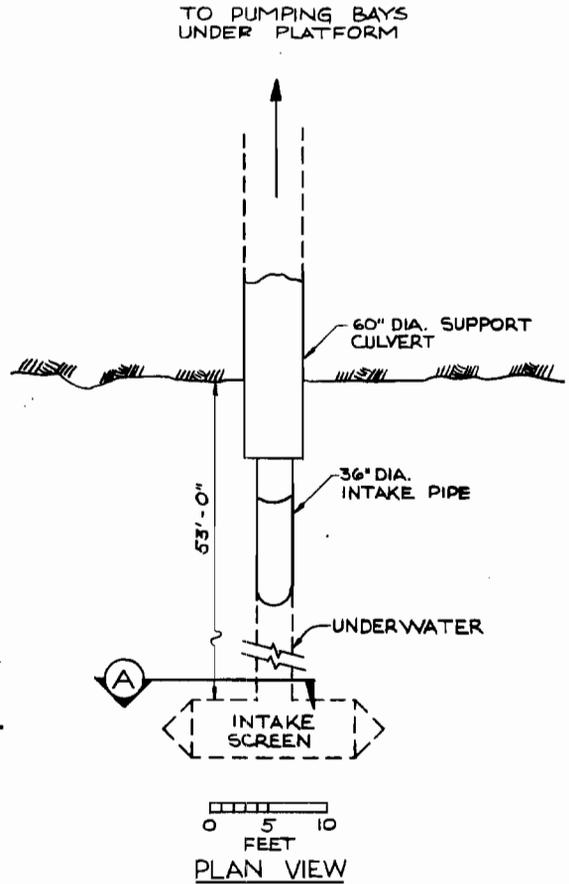
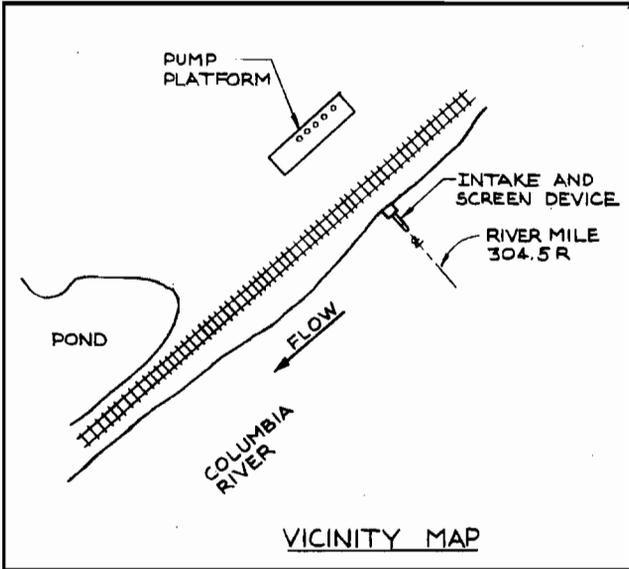
PLAN VIEW
(SIMILAR INSTALLATION FOR ALL 3 PLATFORMS)



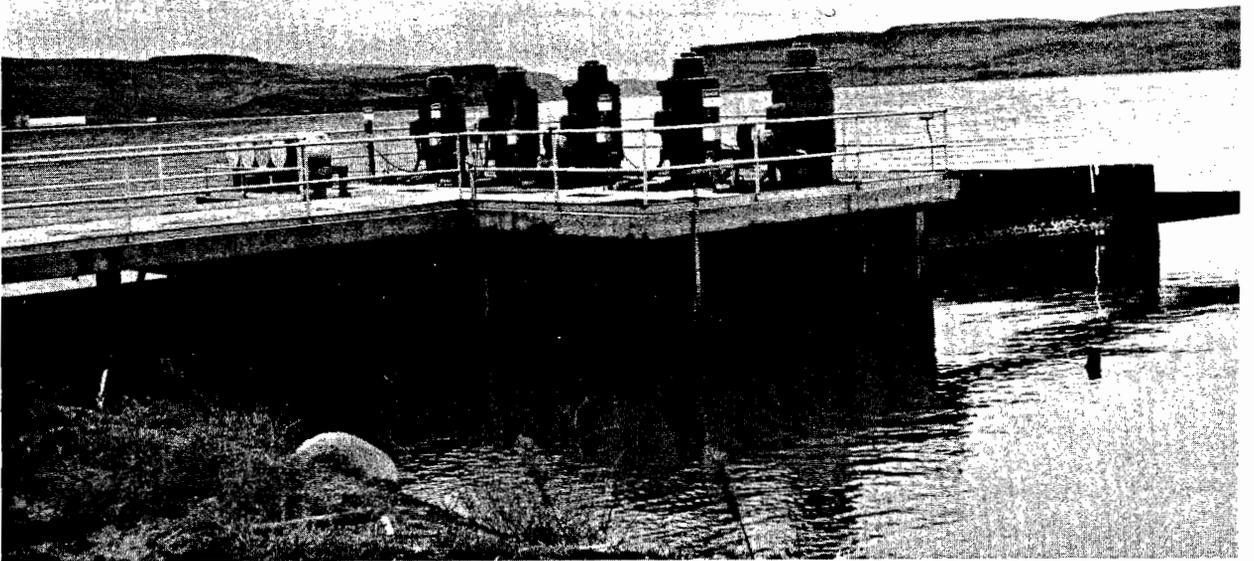
- NOTES:
- 1 DIM. MAY BE APPROXIMATED FROM DRAWING.
 - 2 PUMPS H.P. DISCHARGE DIA. (INCHES).
1-2,4-12 1000 16
3 500 16
 - 3 STATIONARY SCREENS:
PUMP SCREEN MESH SIZE: 18 GA. WITH 0.125" CLEAR OPENING (3 SEPARATE PANELS SLIDE OUT FOR CLEANING).
 - 4 WATER LINE IS APPROXIMATE AND WILL FLUCTUATE WITH RESERVOIR OPERATIONS.



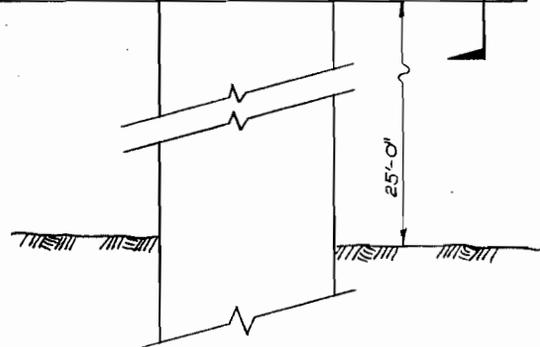
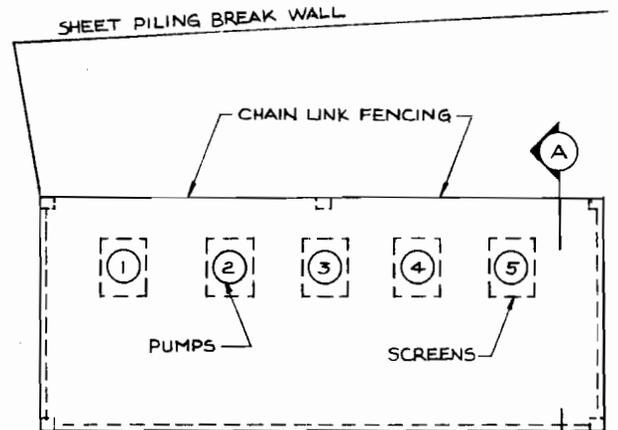
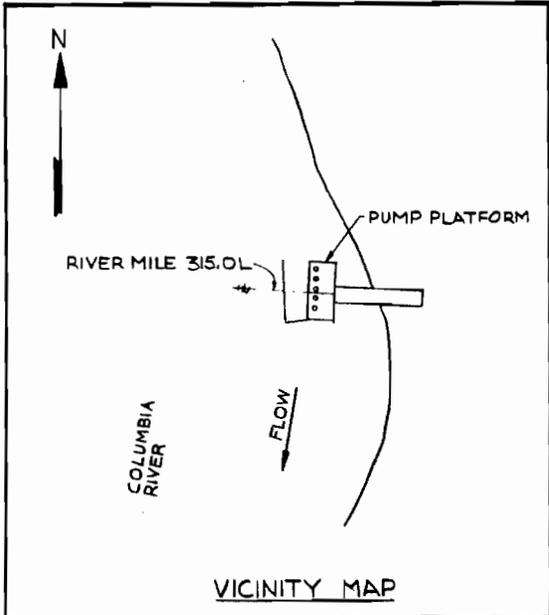
Col304.5R—Barorosa Farms



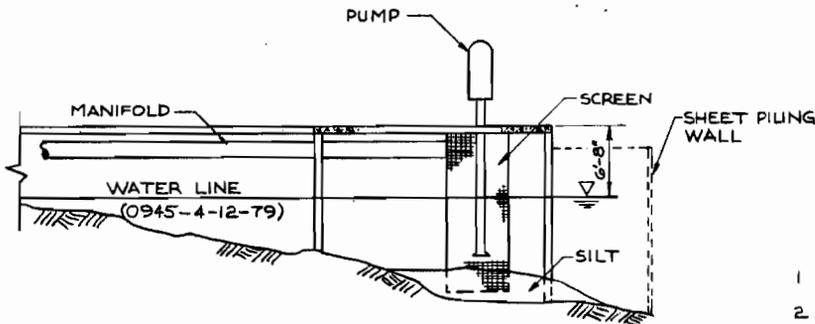
- NOTES:
- 1 DIM. MAY BE APPROXIMATED FROM DRAWING.
 - 2 PUMPS H.P. DISCHARGE DIA. (INCHES)
1-5 1000 12
 - 3 STATIONARY SCREENS:
JOHNSON WEDGE WIRE MESH SIZE: 0.125 IN
CLEAR OPENING (CLEANED BY FORCED AIR).



Col315.0L—Nedrow Farms

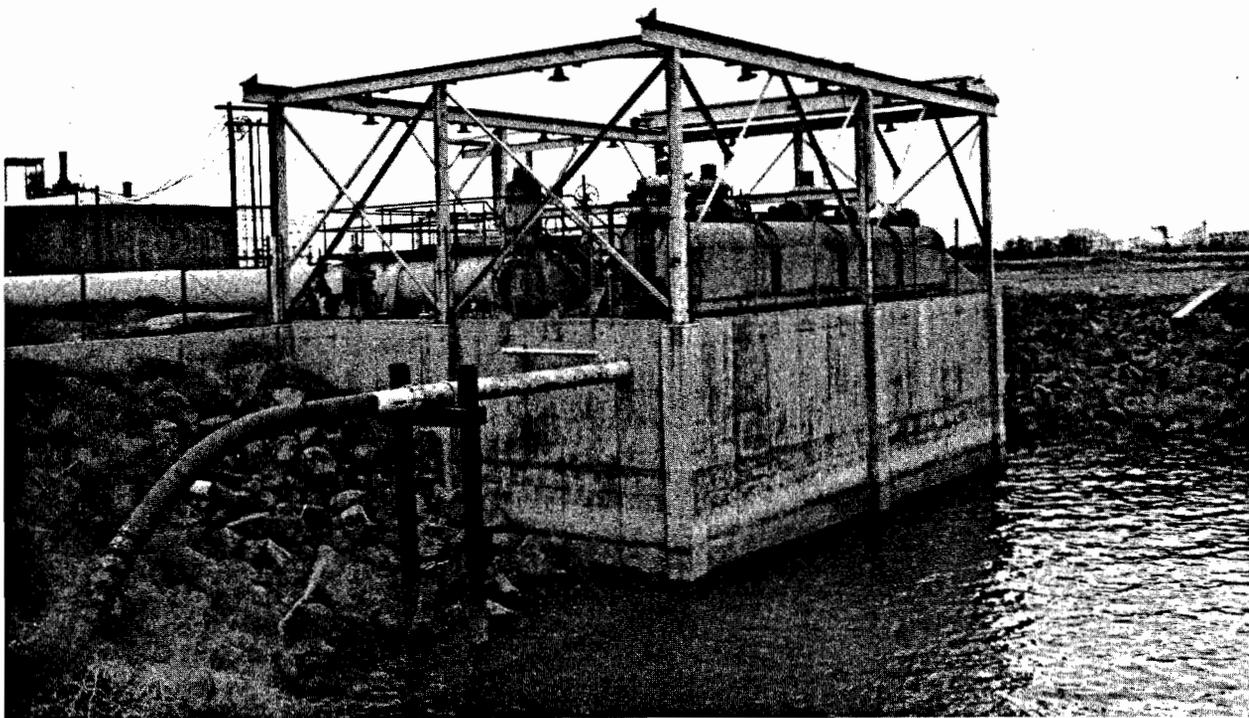


PLAN VIEW

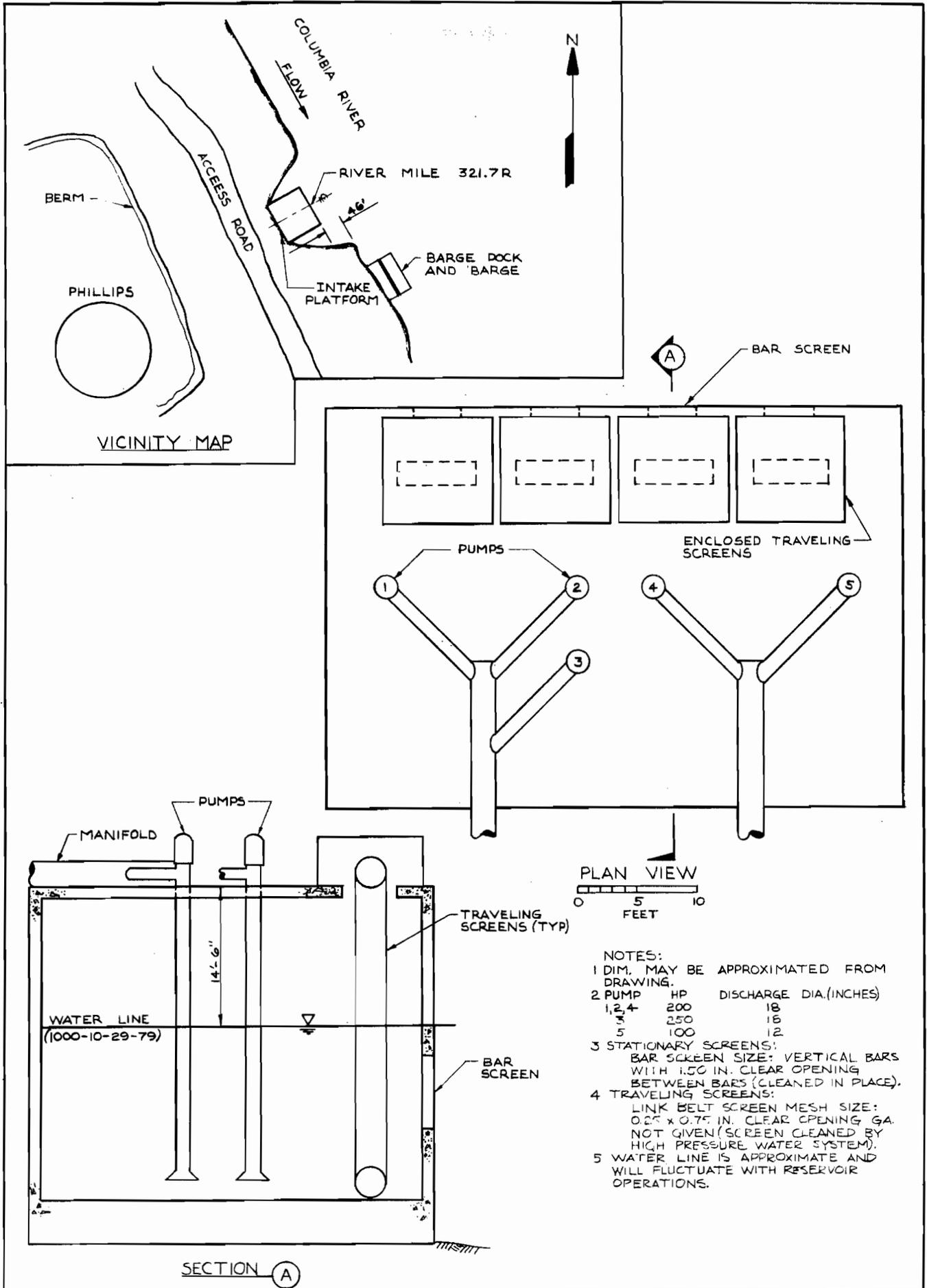


SECTION A

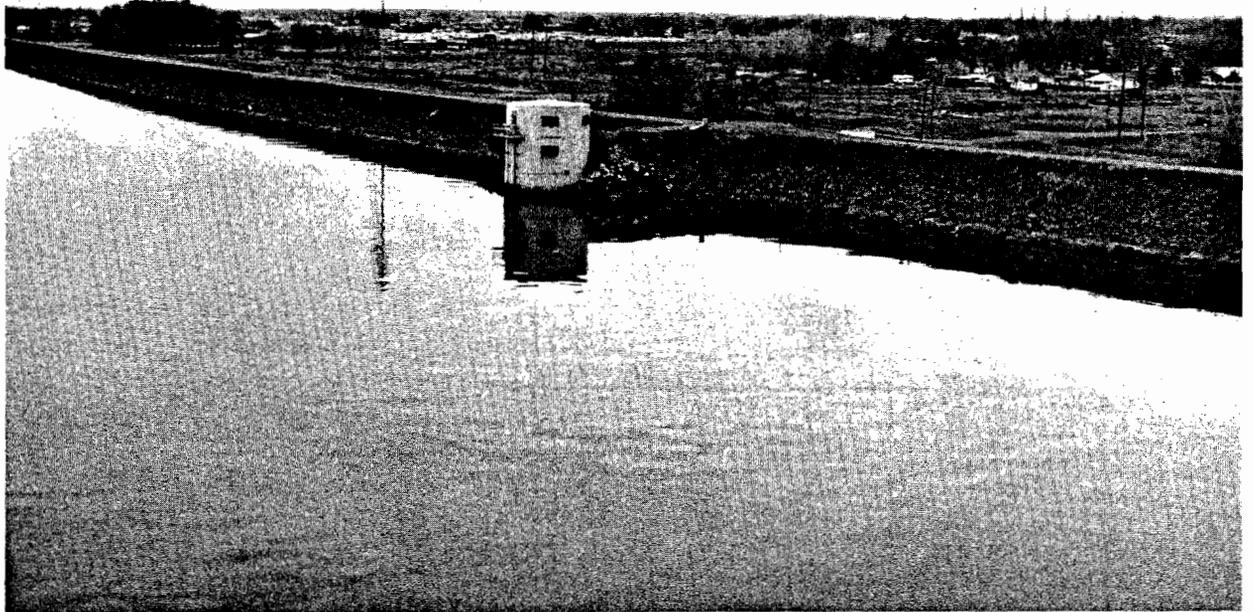
- NOTES:
- 1 DIM. MAY BE APPROXIMATED FROM DRAWING.
 - 2 PUMPS H.P. DISCHARGE DIA.(INCHES)
1-5 450 18
 - 3 STATIONARY SCREENS:
PUMP SCREEN MESH SIZE: 16 GA.
0.125 IN. CLEAR OPENING (3 SEPARATE
PANELS SLIDE OUT FOR CLEANING).
 - 4 WATER LINE IS APPROXIMATE AND
WILL FLUCTUATE WITH RESERVOIR
OPERATIONS.



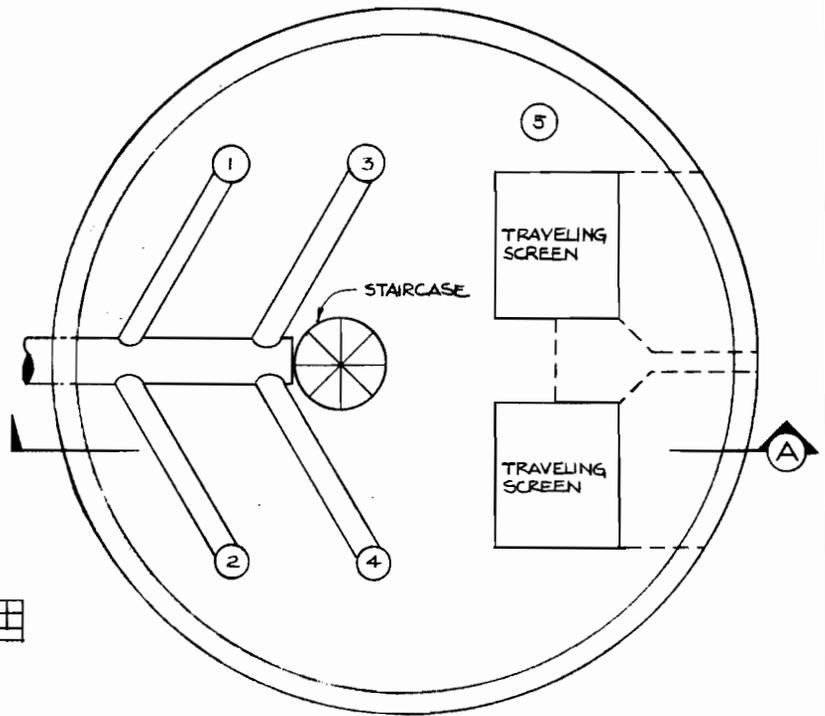
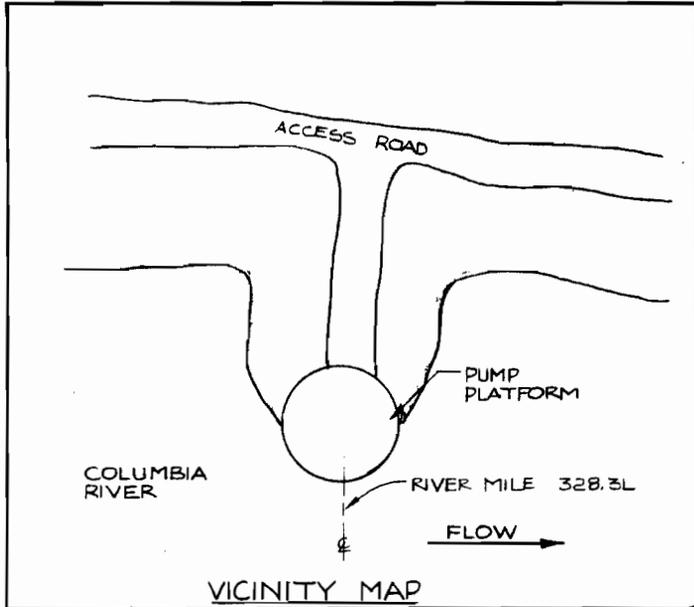
Col321.7R—Phillips Pacific Chemical Company



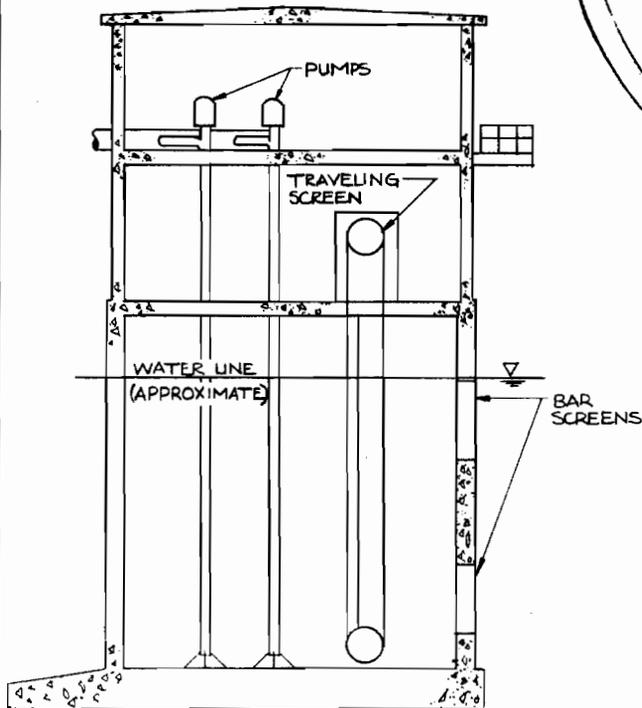
Col321.7R - Phillips Pacific Chemical Co.



Col328.3L—City of Pasco

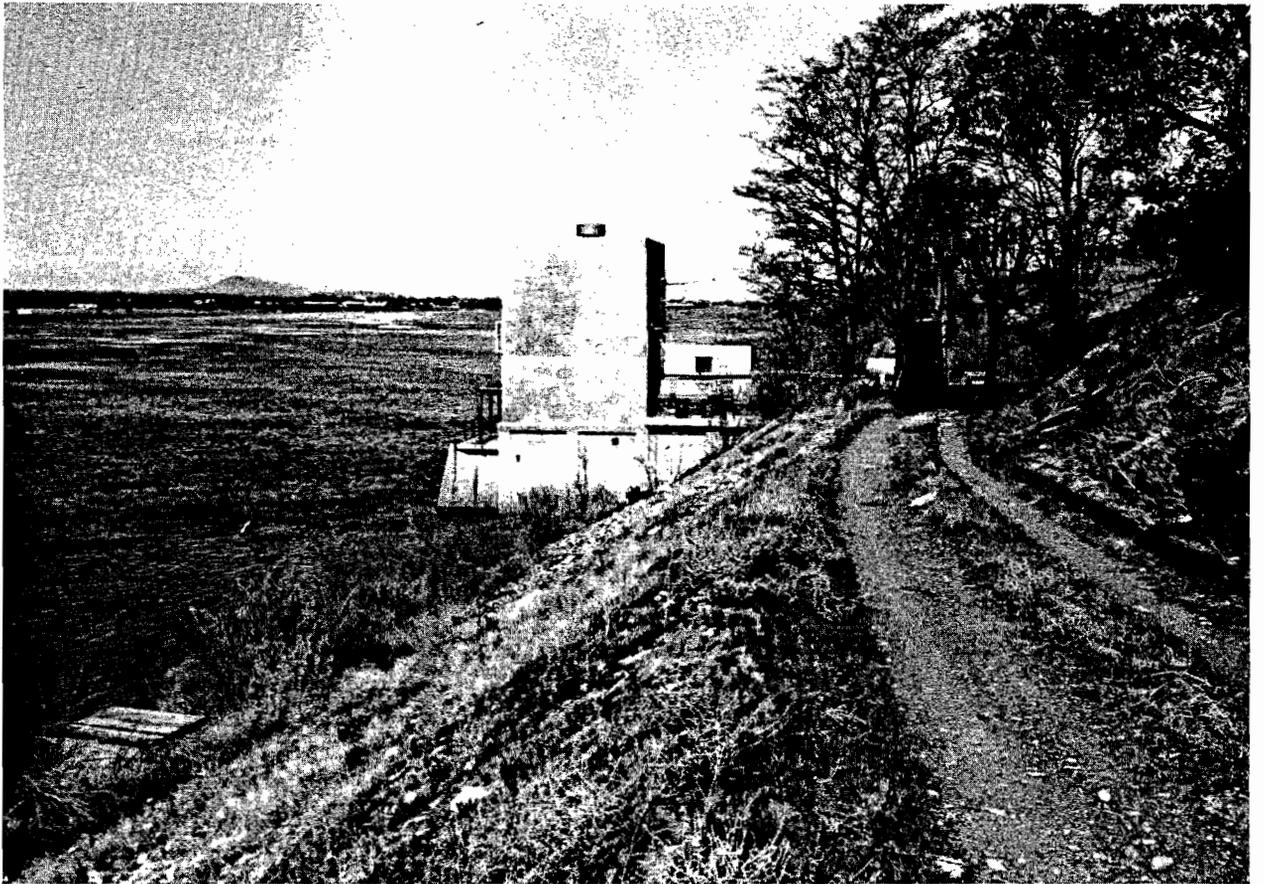


PLAN VIEW

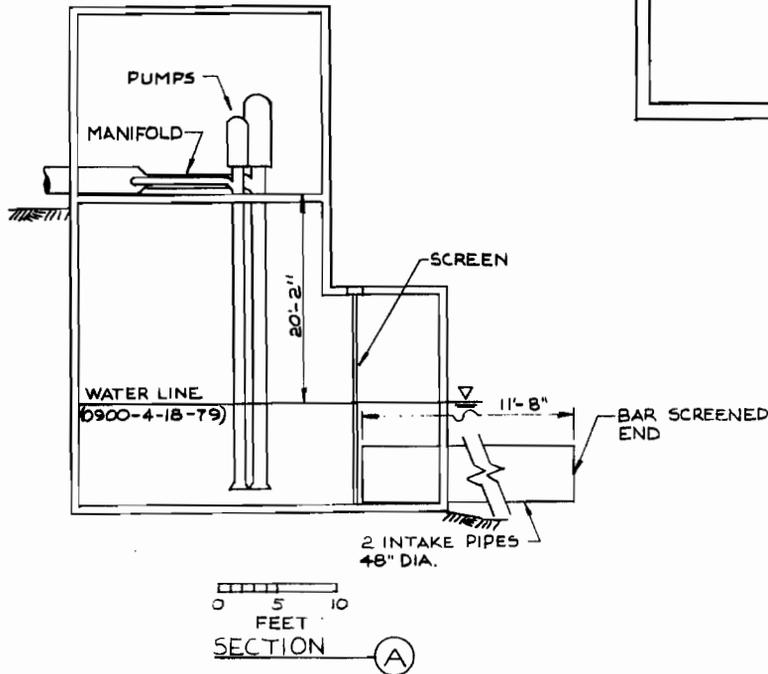
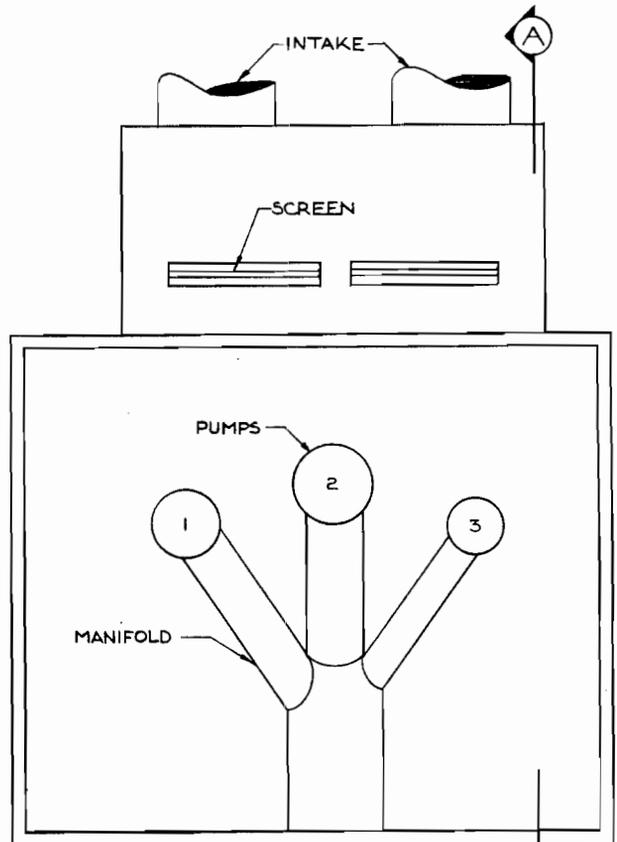
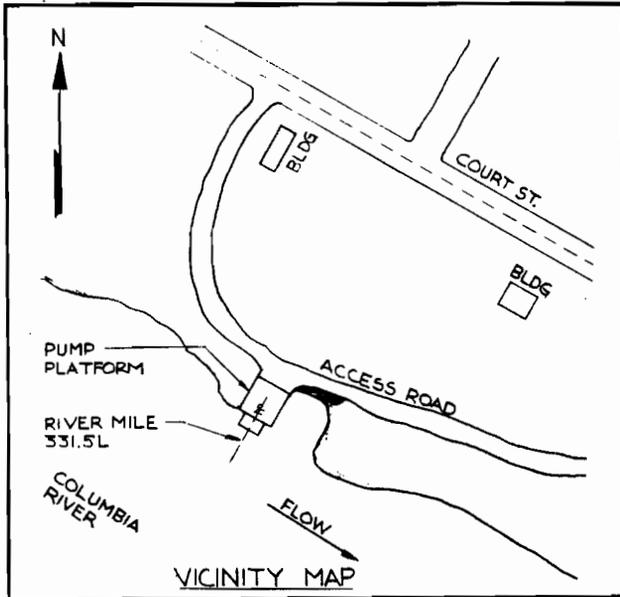


0 5 10
SECTION A

- NOTES:
- DIM. MAY BE APPROXIMATED FROM DRAWING.
 - | PUMPS | H.P. | DISCHARGE DIA.(INCHES). |
|-------|------|-------------------------|
| 1 | 25 | 10 |
| 2 | 50 | 12 |
| 3,4 | 100 | 10 |
 - TRAVELING SCREEN BACKWASH STATIONARY SCREENS:
BAR SCREEN SIZE: DIM WERE NOT OBTAINED.
 - TRAVELING SCREEN MESH SIZE: 18 GA. WITH 0.094 IN. CLEAR OPENING(CLEANED IN PLACE BY HIGH PRESSURE WATER SYSTEM).
 - WATER LINE IS APPROXIMATE AND WILL FLUCTUATE WITH RESERVOIR OPERATIONS.



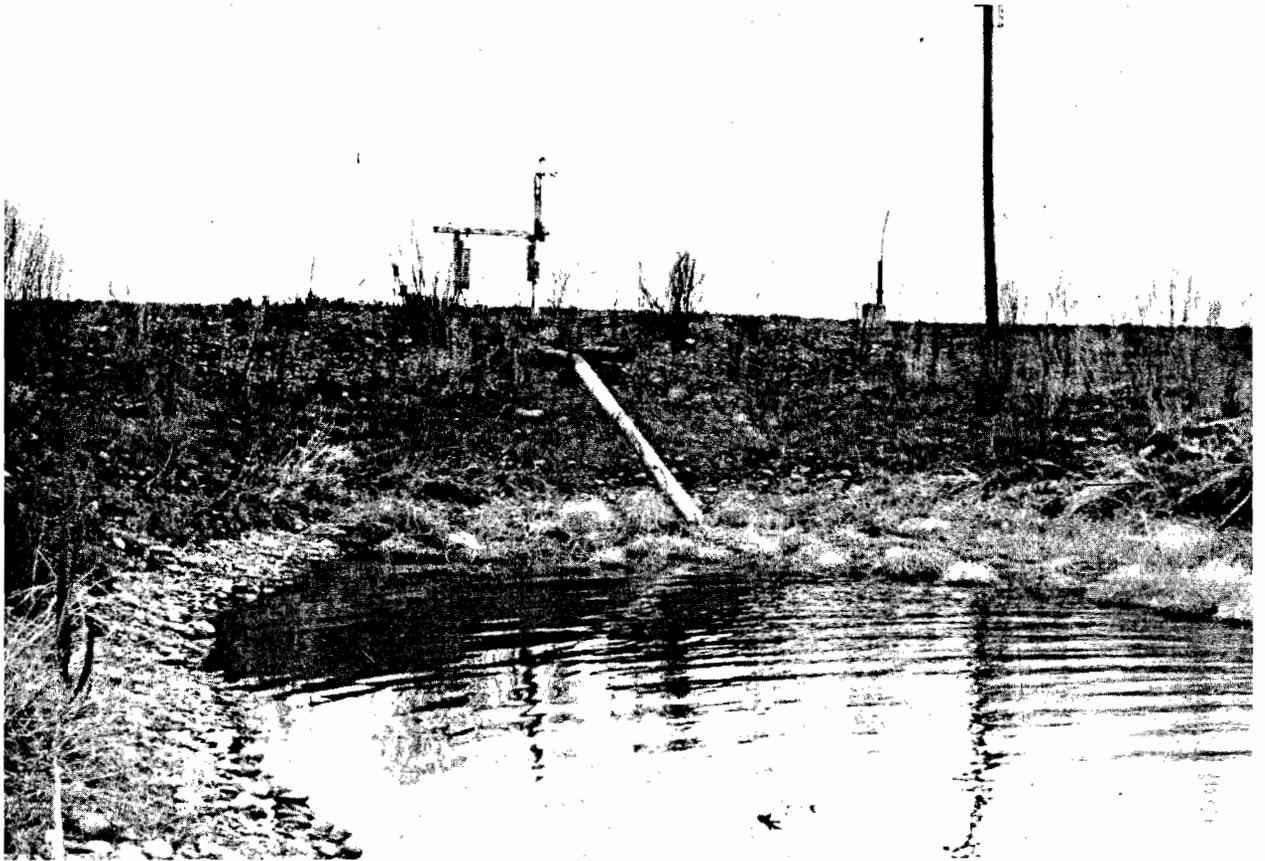
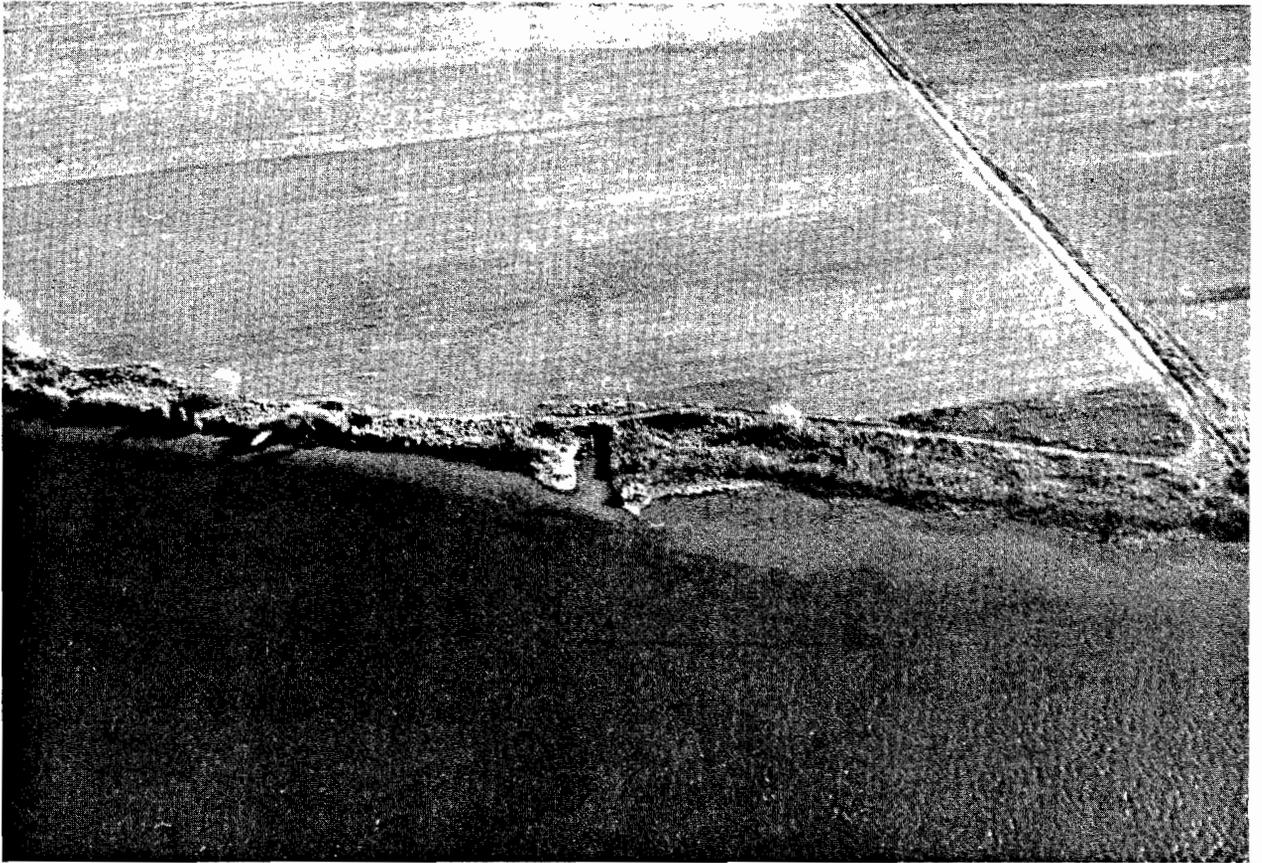
Col331.5L—Franklin County Irrigation District



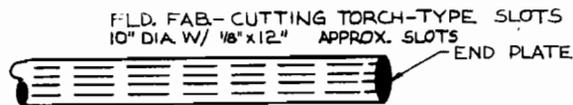
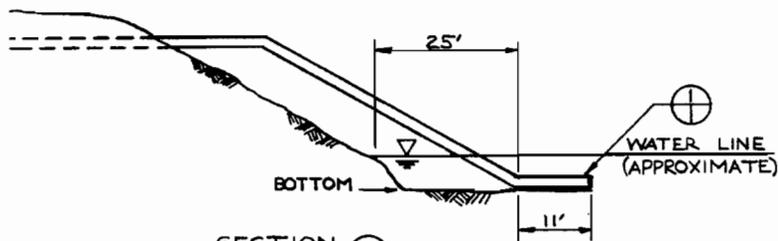
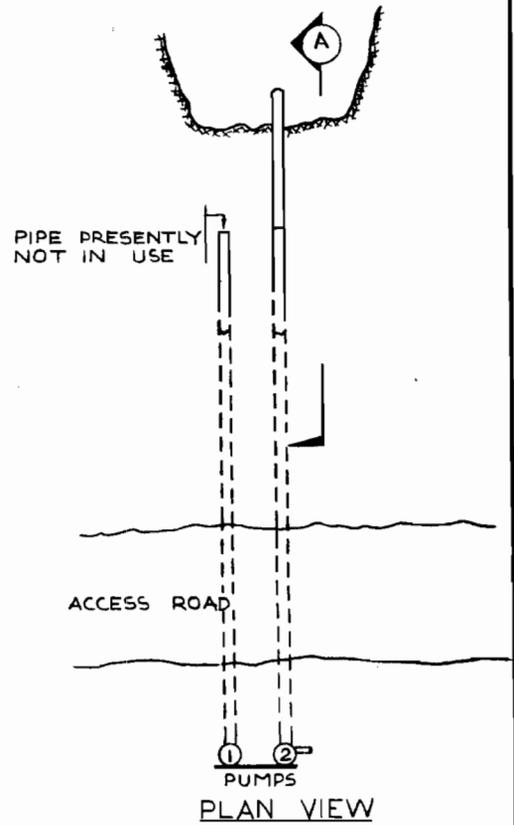
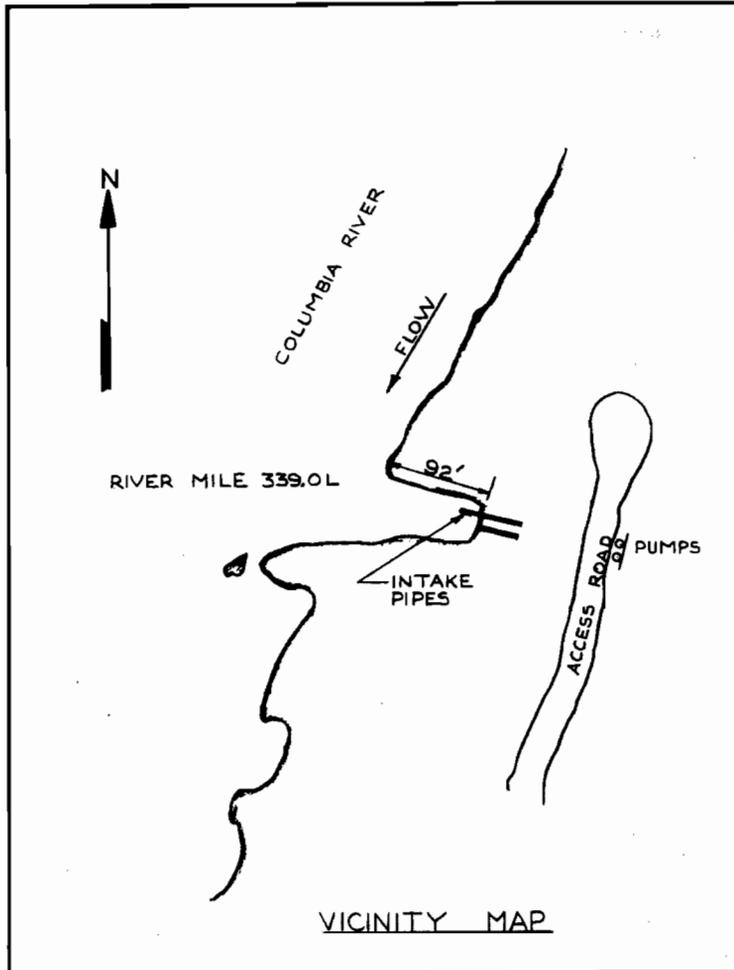
NOTES:

- 1 DIM. MAY BE APPROXIMATED FROM DRAWING.
- 2 PUMPS

	H.P.	DISCHARGE DIA. (IN.)
1	300	24
2	450	30
3	125	18
- 3 STATIONARY SCREENS:
 - A) CULVERT SCREEN MESH SIZE: 8 GA WITH 0.50 IN. CLEAR OPENING (CLEANED IN PLACE).
 - B) PUMP SCREEN MESH SIZE: 26 GA. WITH 0.250 IN. CLEAR OPENING. (SCREENS SLIDE OUT FOR CLEANING).
- 4 WATER LINE IS APPROXIMATE AND WILL FLUCTUATE WITH RESERVOIR OPERATIONS.



Col339.0L—W. Ketchersid

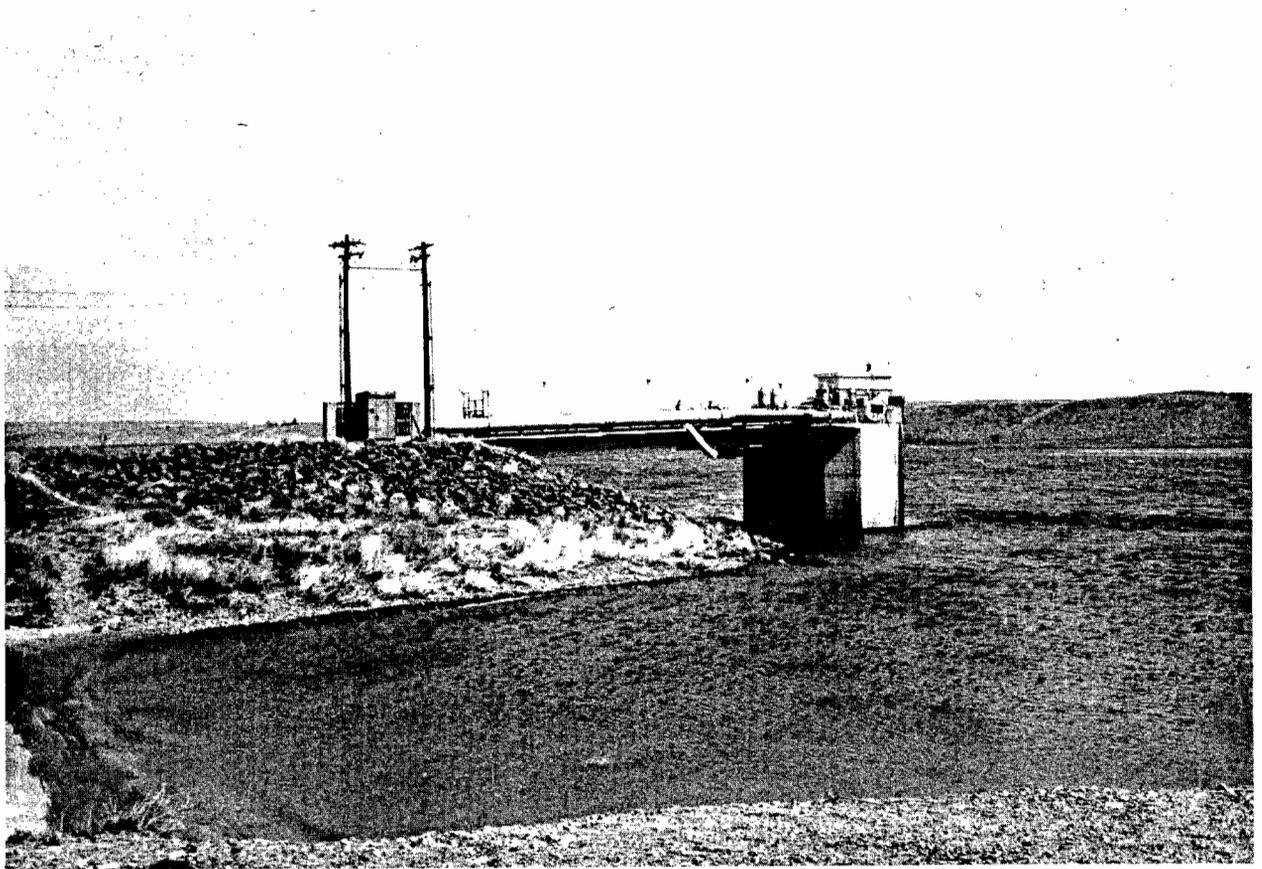


DETAIL

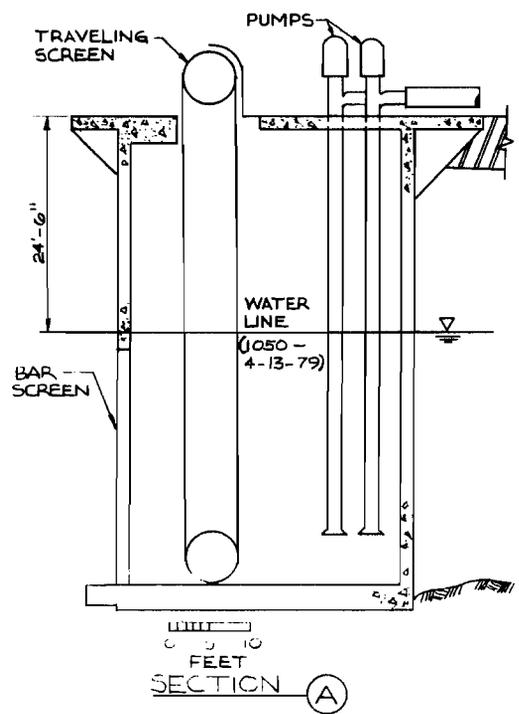
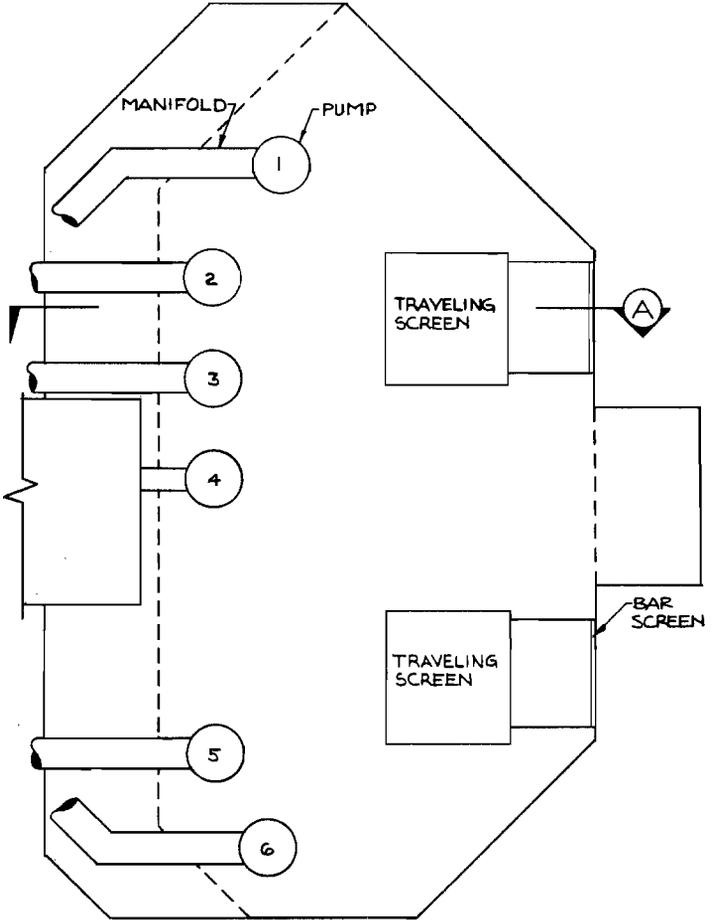
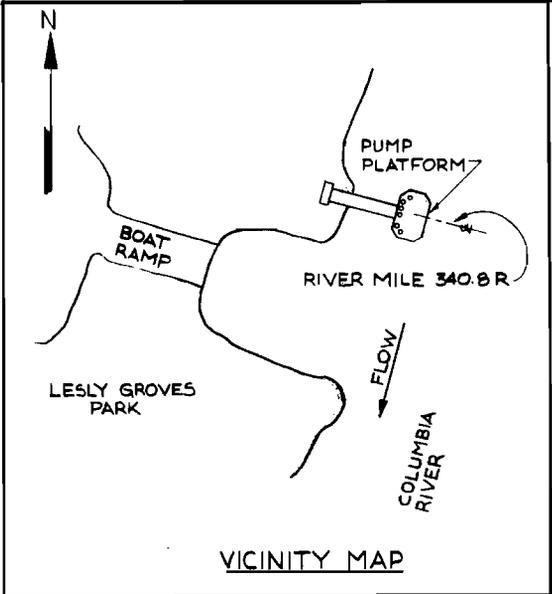
NOTES:

- 1 DIM. MAY BE APPROXIMATED FROM DRAWING
- 2 PUMPS HP DISCHARGE DIA. (INCHES)

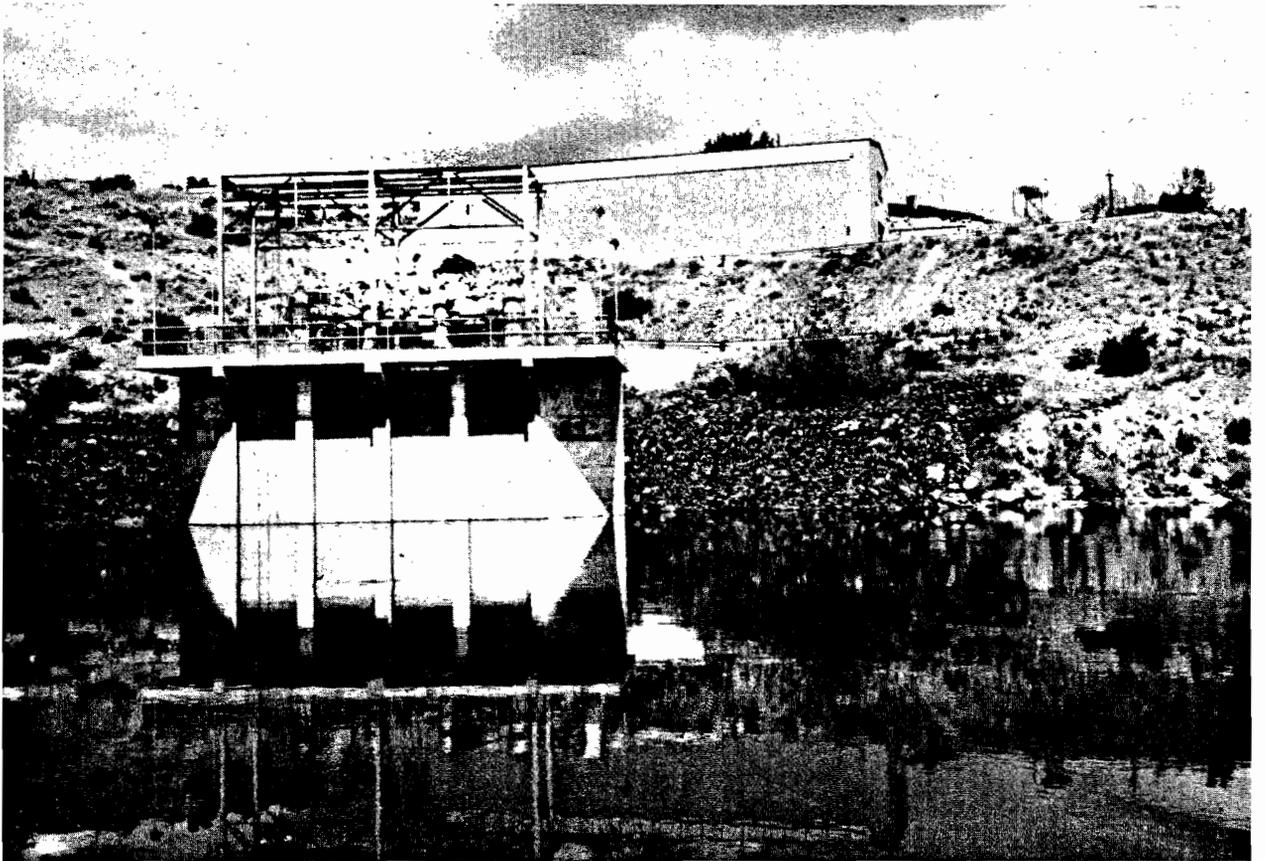
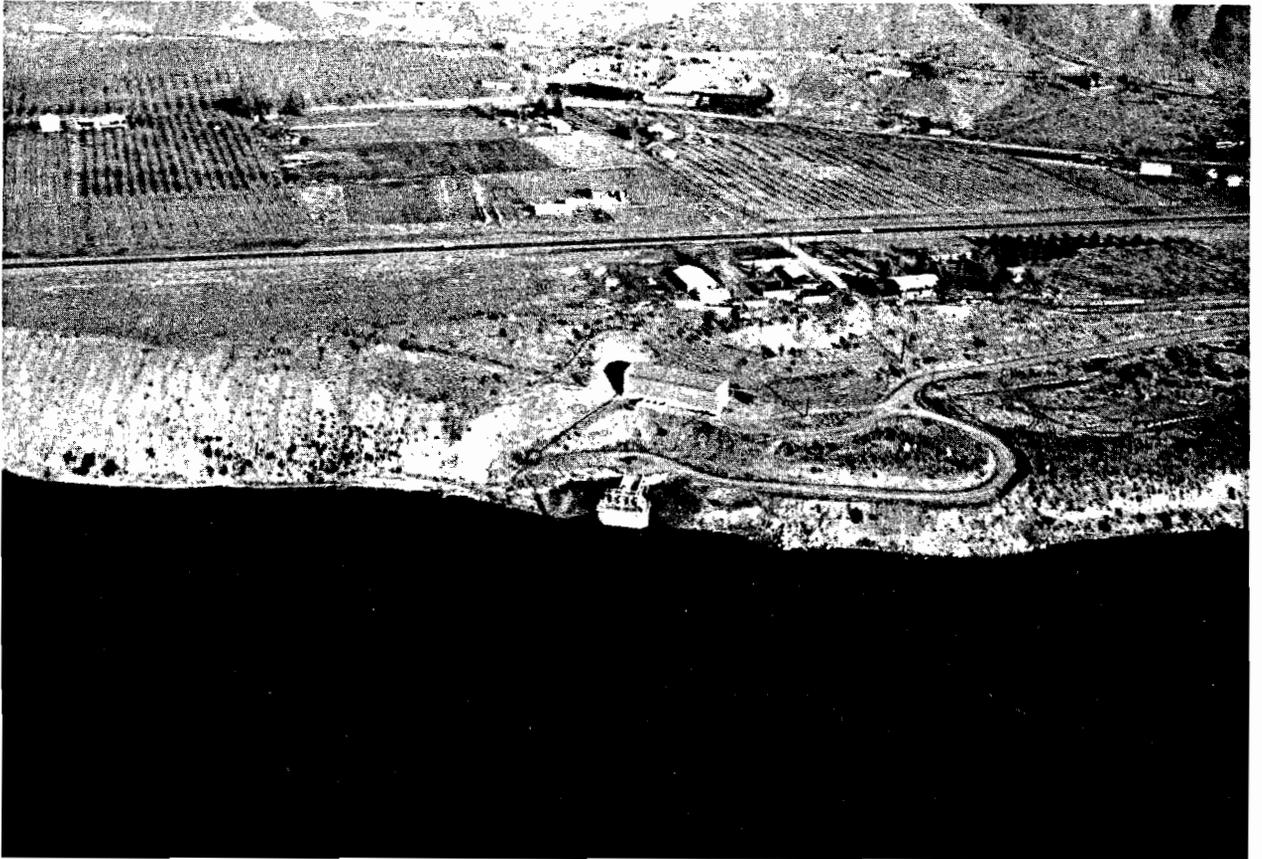
PUMPS	HP	DISCHARGE DIA. (INCHES)
1	15	8
2	60	8
- 3 PUMP NO. 1 IS PRESENTLY NOT IN OPERATION. INTAKE LINE TO RIVER HAS BEEN DISCONNECTED.
- 4 WATER LINE IS APPROXIMATE AND WILL FLUCTUATE WITH RESERVOIR OPERATIONS.



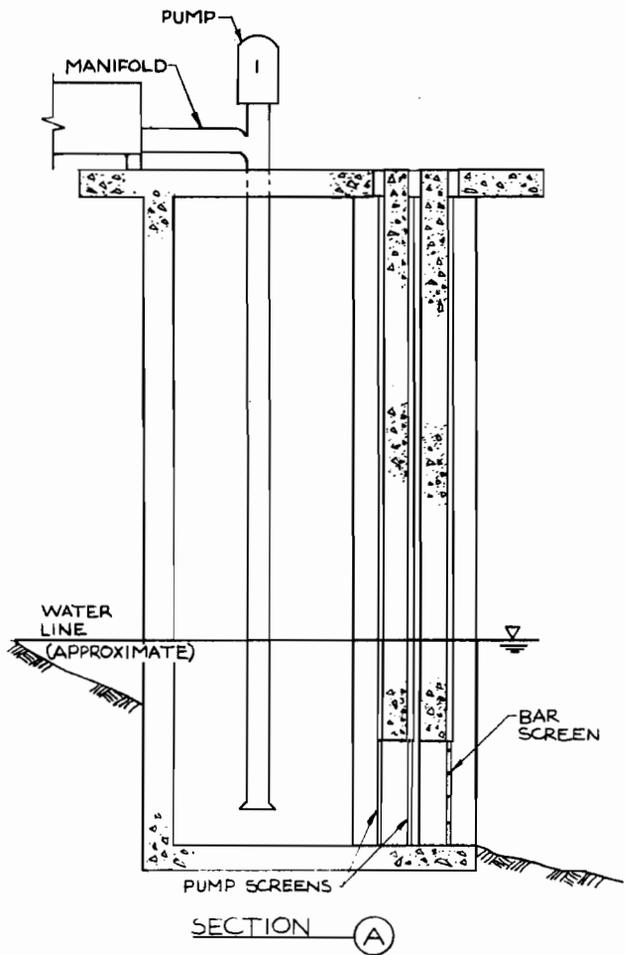
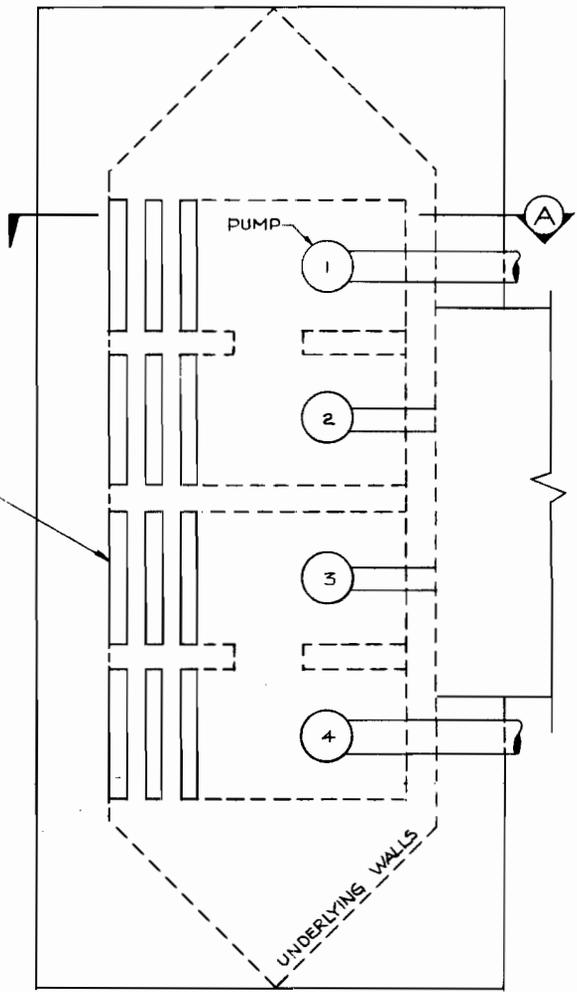
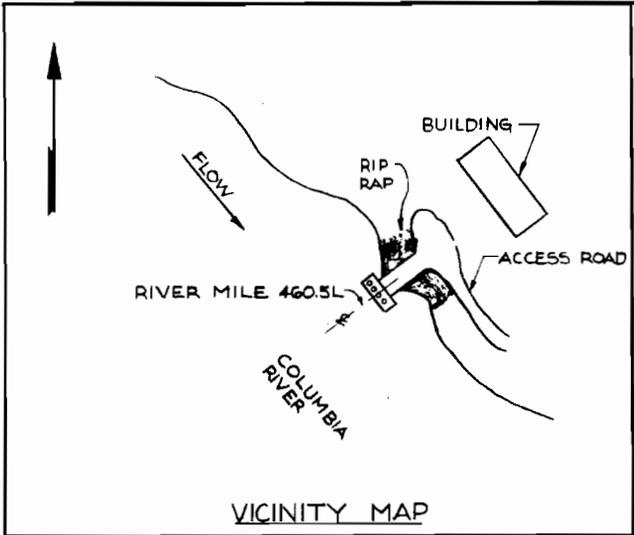
Col340.8R—City of Richland, WA



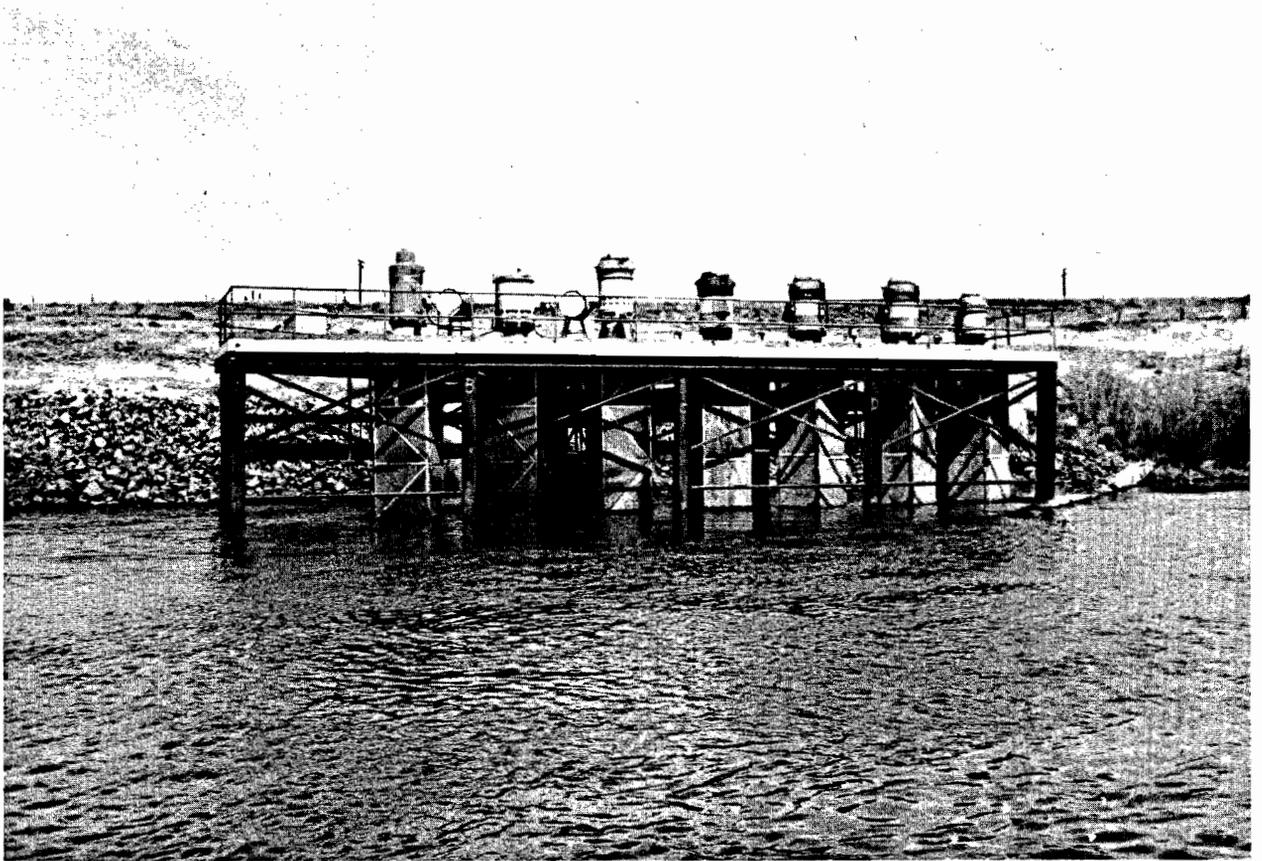
- NOTES:
- 1 DIM. MAY BE APPROXIMATED FROM DRAWING.
 - 2 PUMPS H.P. DISCHARGE DIA. (INCHES)
 1,2 6 300 20
 3,5 200 20
 4 100 16
 - 3 STATIONARY SCREENS:
 BAR SCREEN SIZE: VERTICAL BARS @ 4.50 IN.
 ON CENTER (CLEANED IN PLACE).
 - 4 TRAVELING SCREENS:
 JEFFERY SCREEN MESH SIZE: 18 GA. WITH
 0.094 IN. CLEAR OPENING (SCREEN CLEANED
 BY HIGH PRESSURE WATER SYSTEM).
 - 5 WATER LINE IS APPROXIMATE AND WILL
 FLUCTUATE WITH RESERVOIR OPERATIONS.



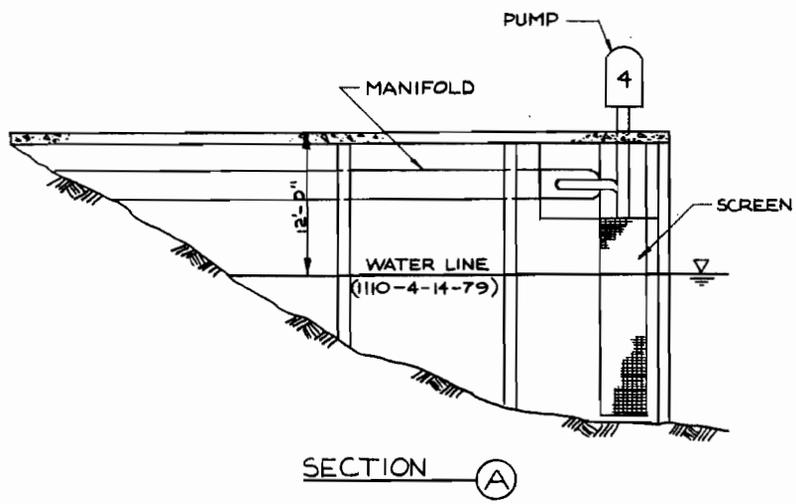
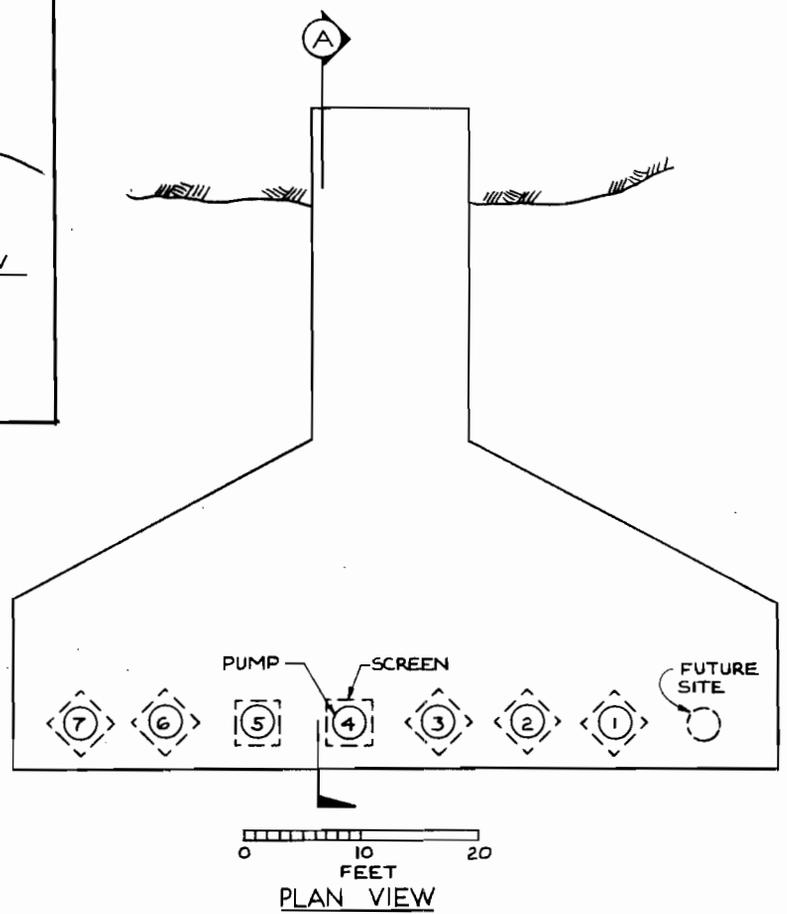
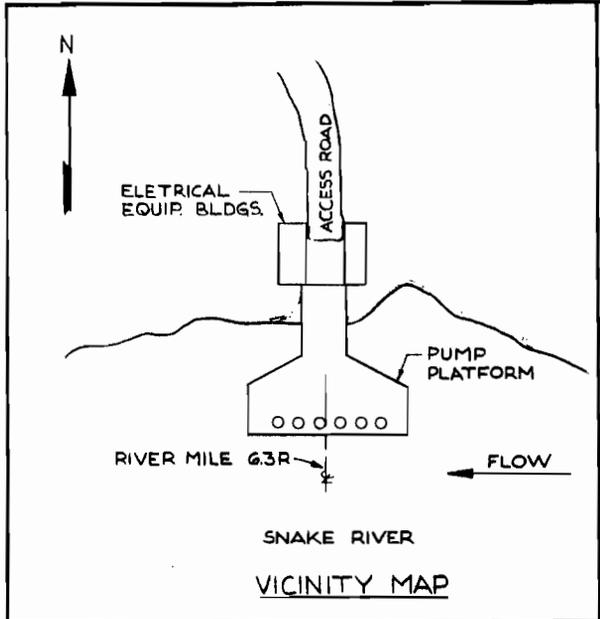
Col460.5L—Greater Wenatchee Irrigation District



- NOTES:
- 1 DIM. MAY BE APPROXIMATED FROM DRAWING.
 - 2 PUMPS H.P. DISCHARGE DIA. (INCHES).
 1, 4 300 24
 2, 3 150 16
 - 3 STATIONARY SCREENS:
 A) BAR SCREEN SIZE: VERTICAL BARS WITH 3.0 IN. CLEAR OPENING BETWEEN BARS (CLEANED IN PLACE).
 B) PUMP SCREEN MESH SIZE: 16 GA. WITH 0.188 IN. CLEAR OPENING (SCREENS SLIDE OUT FOR CLEANING).
 - 4 WATER LINE IS APPROXIMATE AND WILL FLUCTUATE WITH RESERVOIR OPERATIONS.

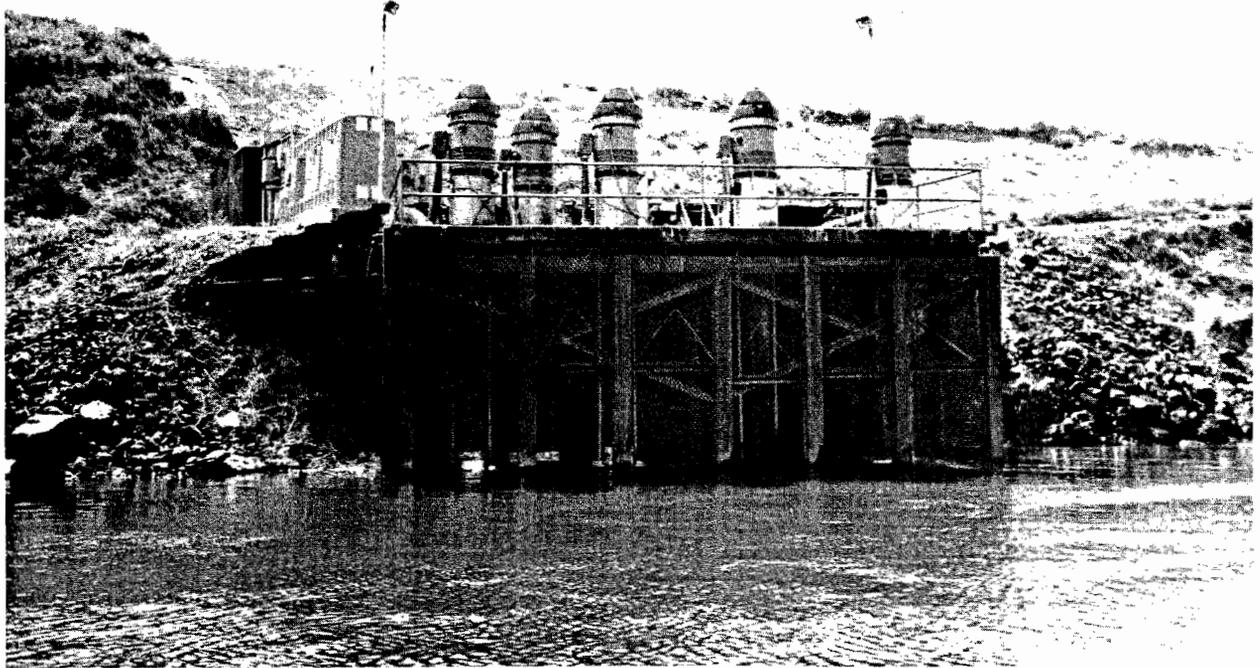
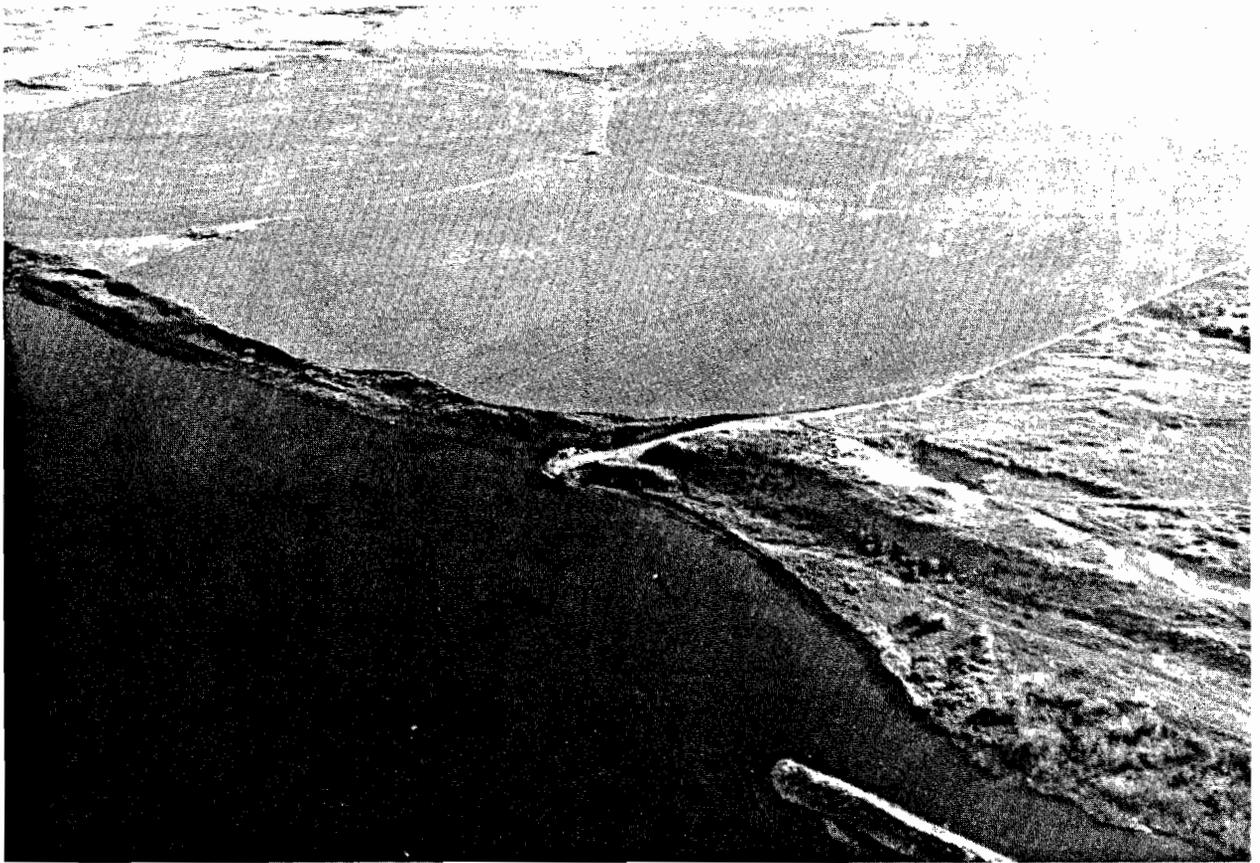


Snk006.3R—Myron Paterson

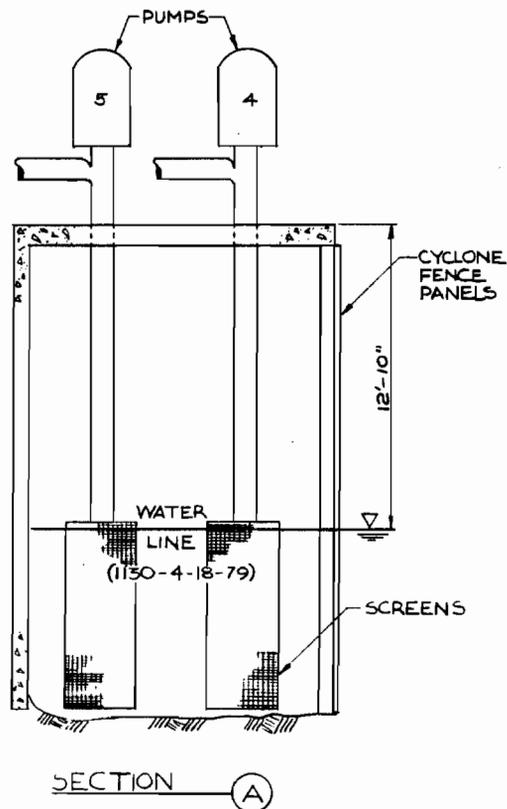
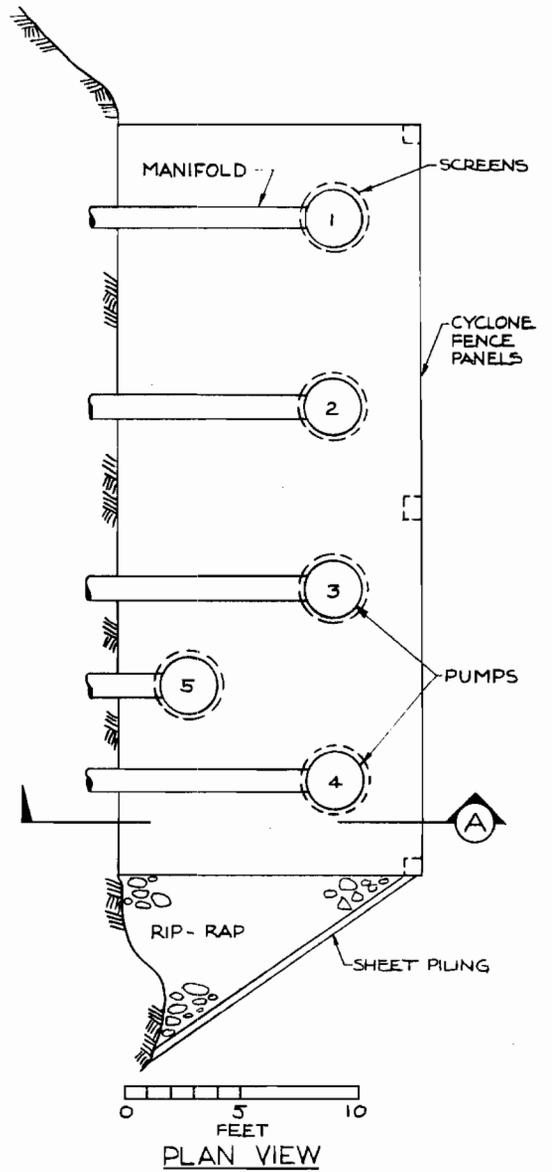
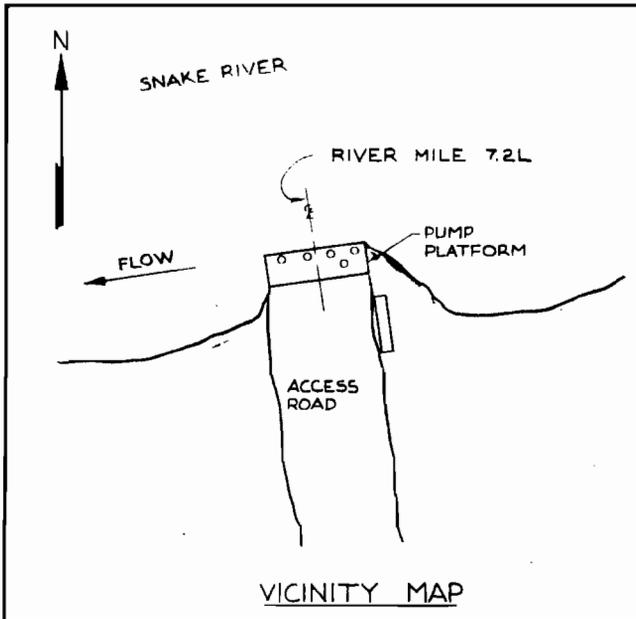


- NOTES:
- 1 DIM. MAY BE APPROXIMATED FROM DRAWING.
 - 2 PUMPS H.P. DISCHARGE DIA.(IN.)

1-3, 6	500	12
4	400	12
5	350	12
7	200	8
 - 3 STATIONARY SCREENS:
PUMP SCREEN MESH SIZE: 30 GA. WITH 0.125 IN. CLEAR OPENING (3 SEPARATE PANELS SLIDE OUT FOR CLEANING).
 - 4 WATER LINE IS APPROXIMATE AND WILL FLUCTUATE WITH RESERVOIR OPERATIONS.

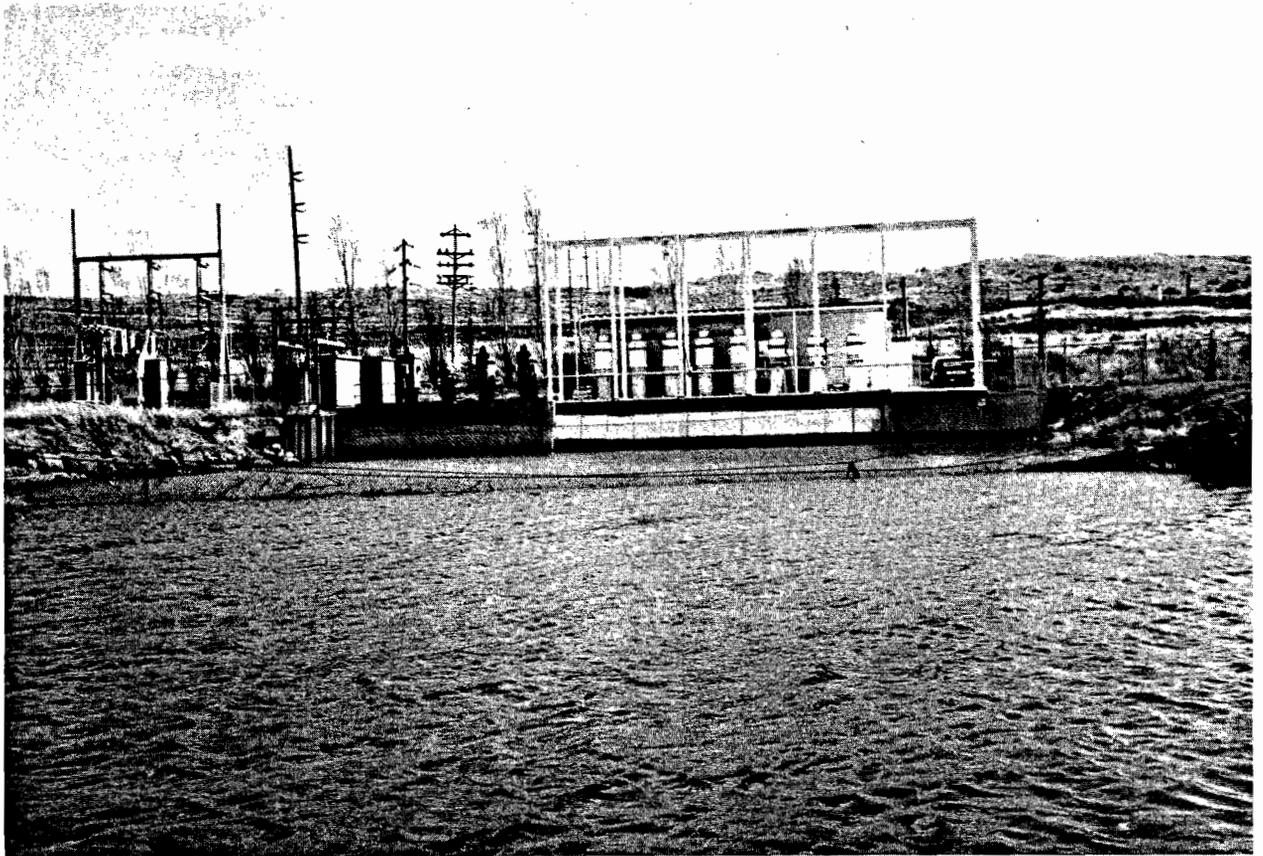


Snk007.2L—Mehlenbacher Farms, Inc.

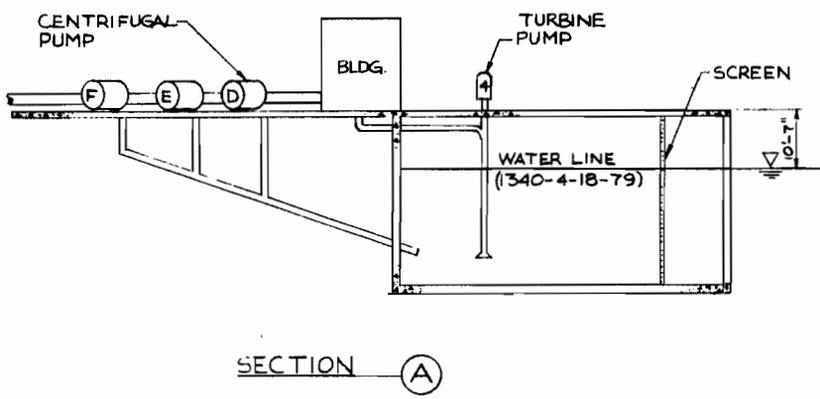
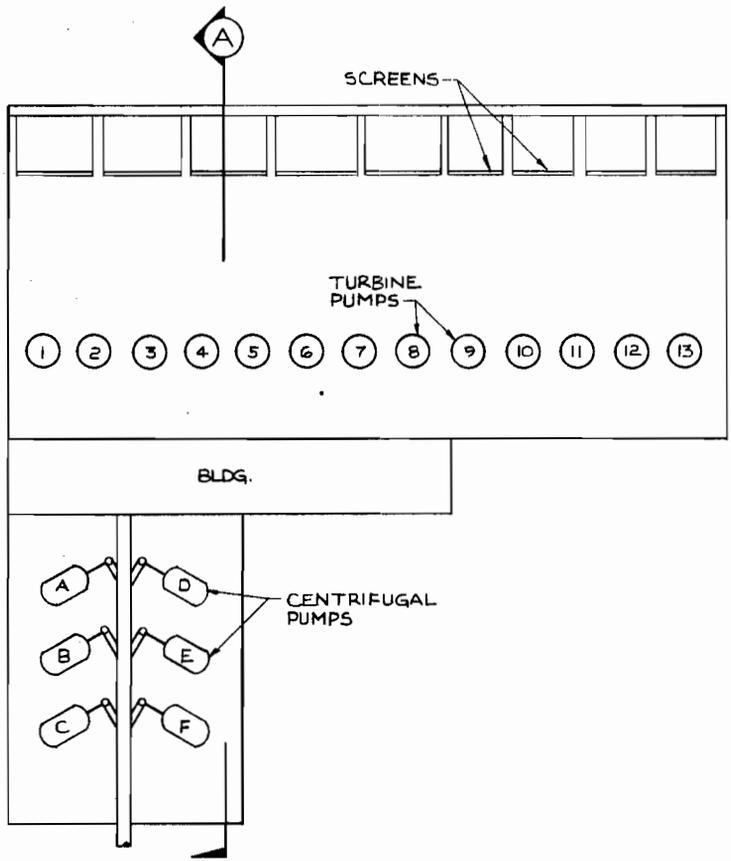
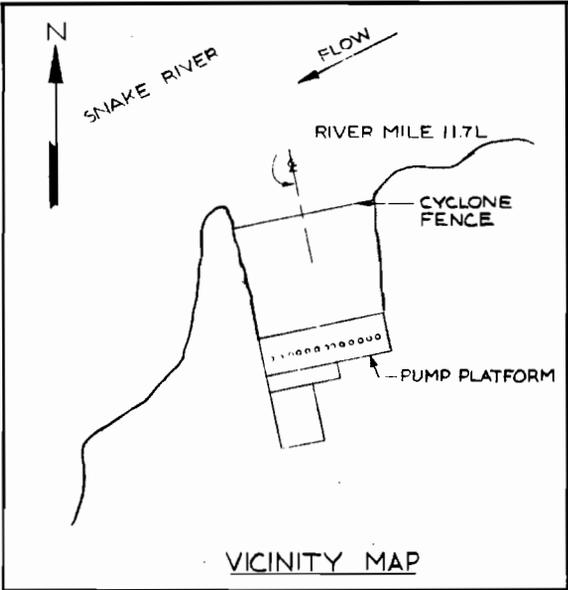


- NOTES:
- 1 DIM. MAY BE APPROXIMATED FROM DRAWING.
 - 2 PUMPS H.P. DISCHARGE DIA.(INCHES)

1	250	10
2-5	500	12
 - 3 STATIONARY SCREENS:
 - A) CYCLONE FENCING PANELS: CONSTRUCTED IN PANELS FOR REMOVAL FOR CLEANING AND REPAIR.
 - B) PUMP SCREEN MESH SIZE: 16 GA. WITH 0.125 IN. CLEAR OPENING (SCREEN IS CLEANED IN PLACE).
 - 4 WATER LINE IS APPROXIMATE AND WILL FLUCTUATE WITH RESERVOIR OPERATIONS.



Snk011.7L—Universal Land

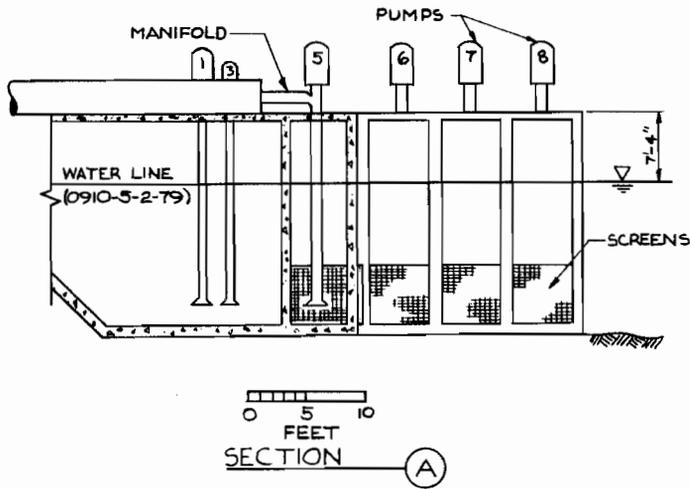
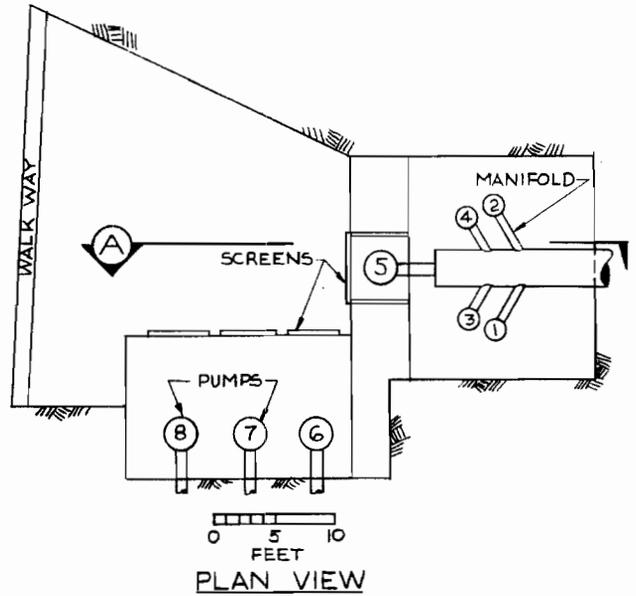
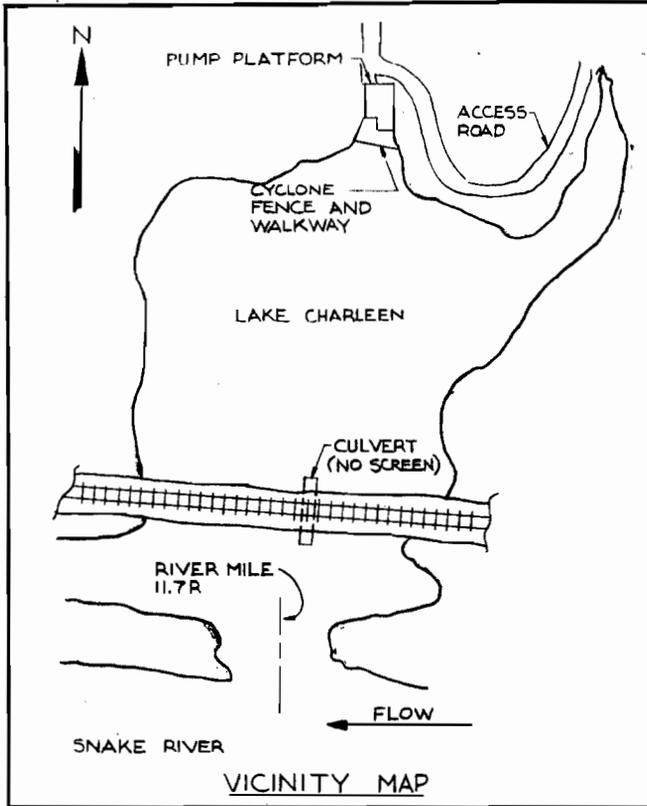


- NOTES:
- 1 DIM. MAY BE APPROXIMATED FROM DRAWING.
 - 2 PUMPS H.P. DISCHARGE DIA. (IN.)

PUMPS	H.P.	DISCHARGE DIA. (IN.)
1-3	500	24
4-8	900	20
9,12	600	14
10,11	1000	16
13	1500	16
A-F	500	9
 - 3 STATIONARY SCREENS:
PUMP SCREEN DUAL MESH SIZE:
16 GA. WITH 0.094 IN. CLEAR.
OPENING BACKED WITH 24 GA.
WITH 0.125" CLEAR OPENING (SCREEN
PANEL SLIDES OUT FOR CLEANING).
 - 4 WATER LINE IS APPROXIMATE
AND WILL FLUCTUATE WITH
RESERVOIR OPERATIONS.



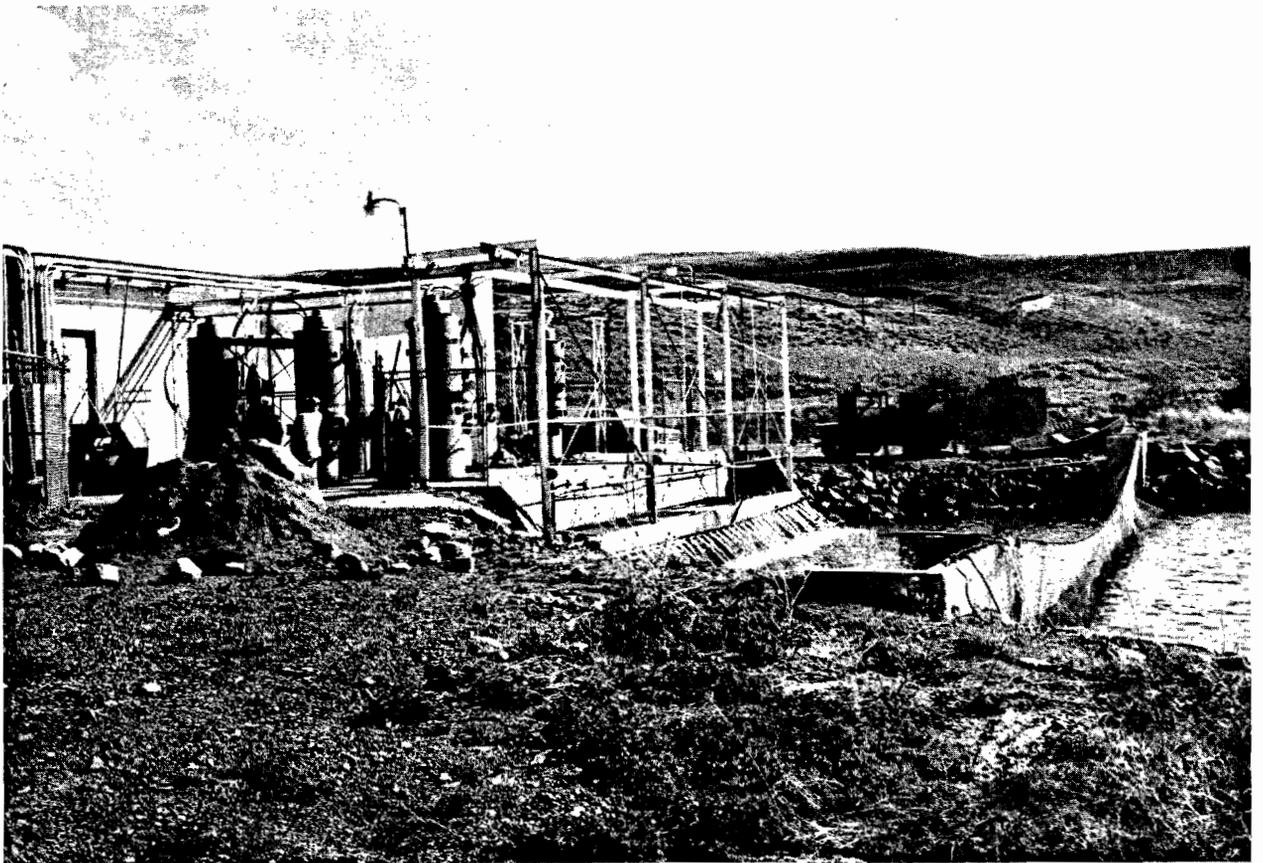
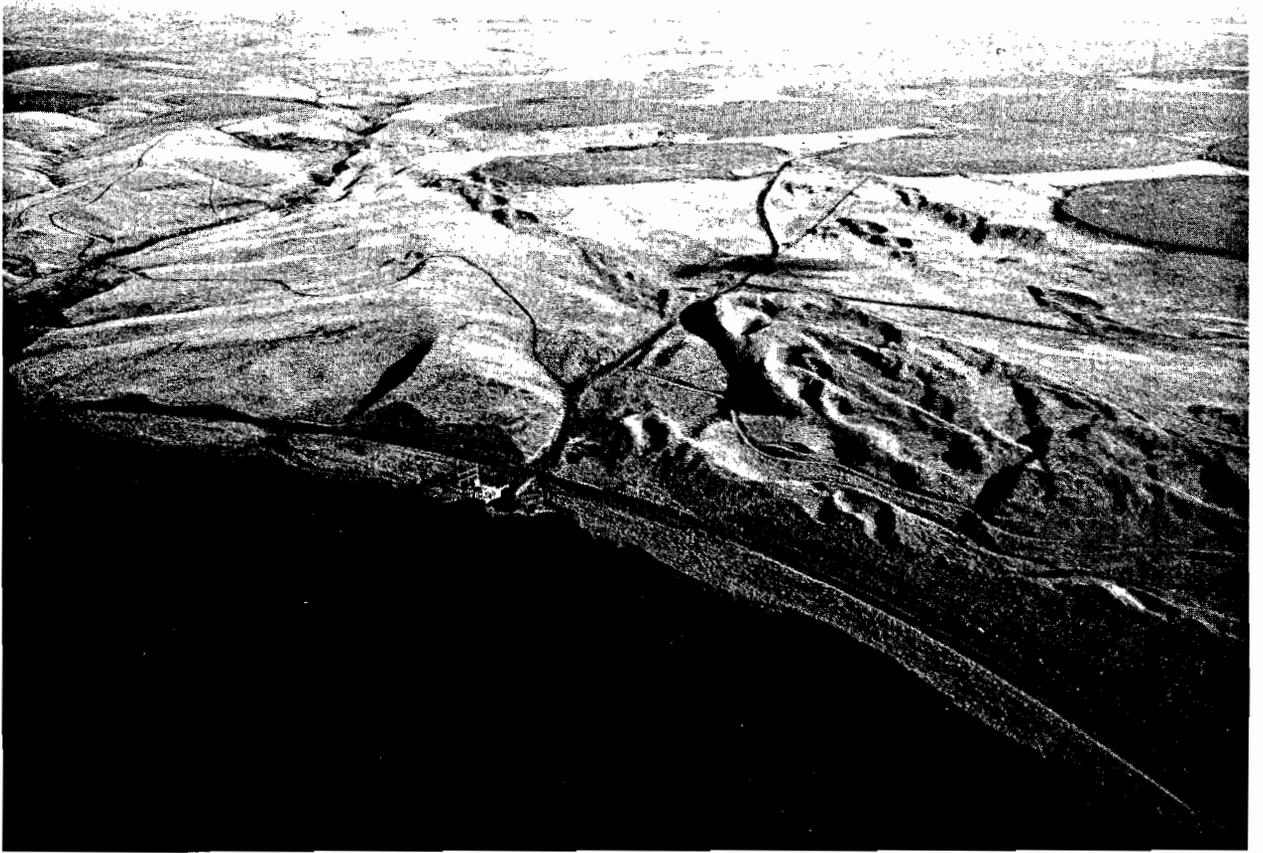
Snk011.7R—Lyle Neff



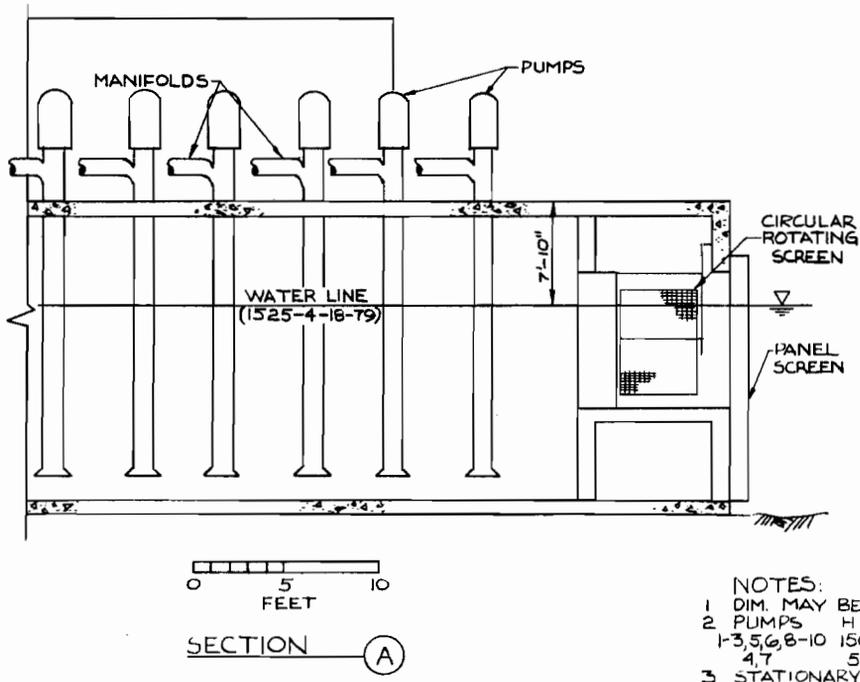
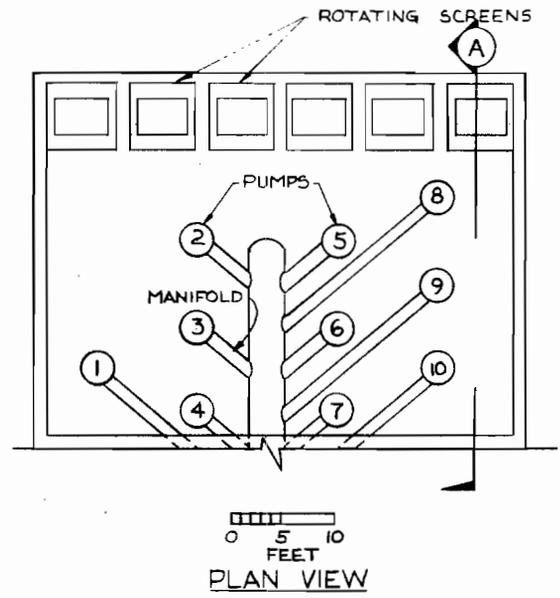
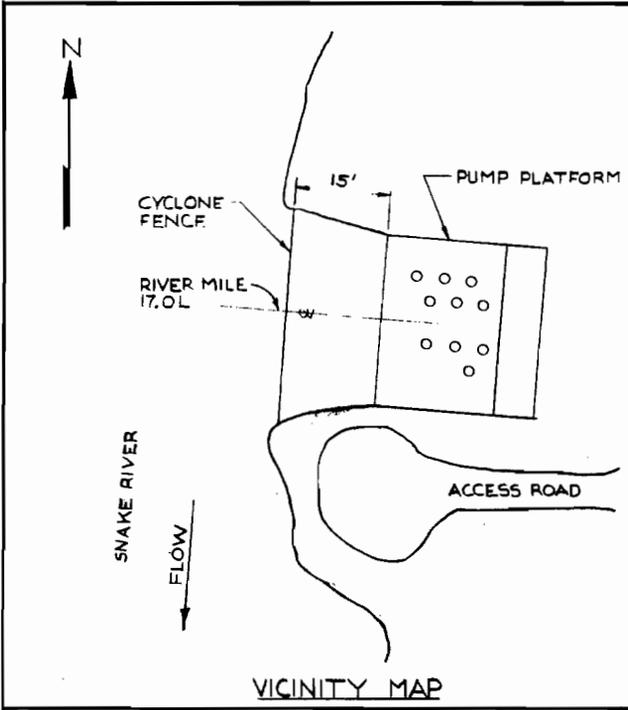
NOTE:

- 1 DIM. MAY BE APPROXIMATED FROM DRAWING.
- 2

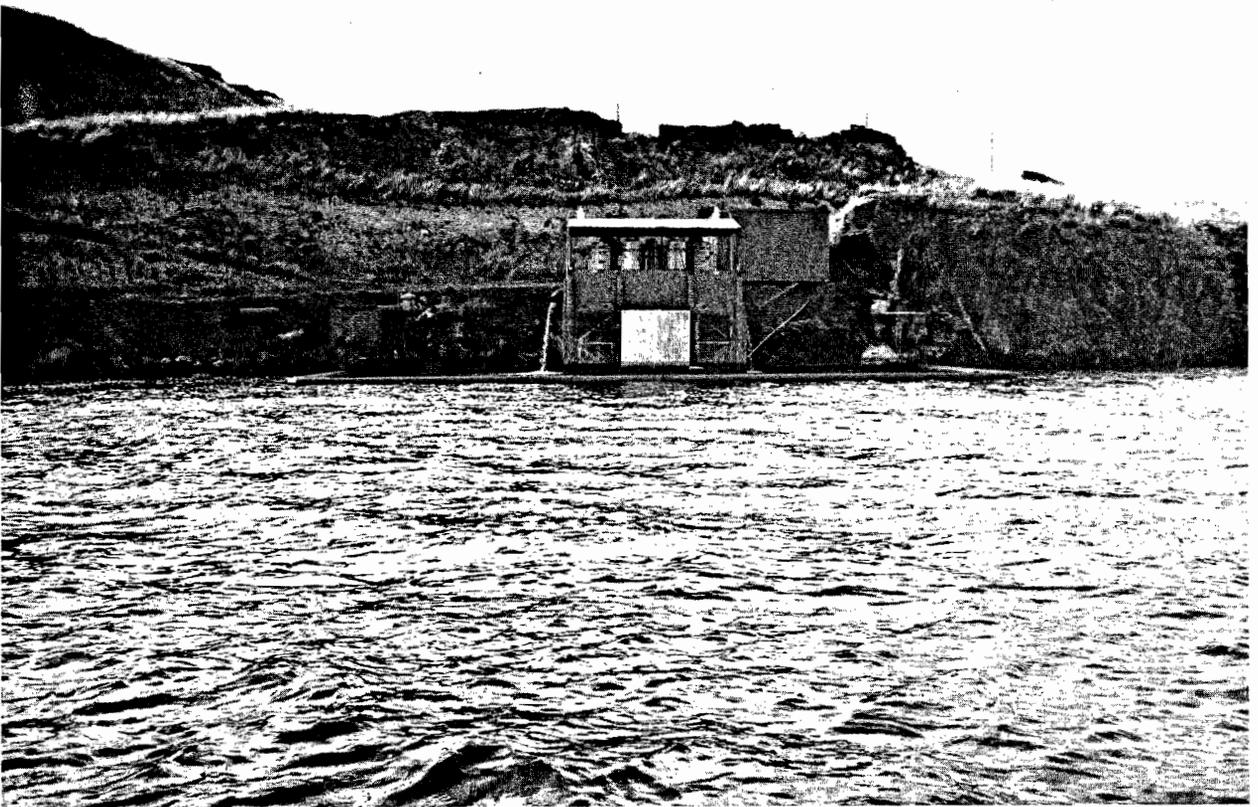
PUMPS	H.P.	DISCHARGE DIA. (INCHES)
1,5	300	10
2	350	12
3	100	8
4	200	10
6	450	12
7,8	500	12
- 3 STATIONARY SCREENS:
PUMP SCREEN MESH SIZE: 10 GA. WITH 0.125 IN. CLEAR OPENING (SCREENS SLIDE OUT FOR CLEANING).
- 4 WATER LINE IS APPROXIMATE AND WILL FLUCTUATE WITH RESERVOIR OPERATIONS.



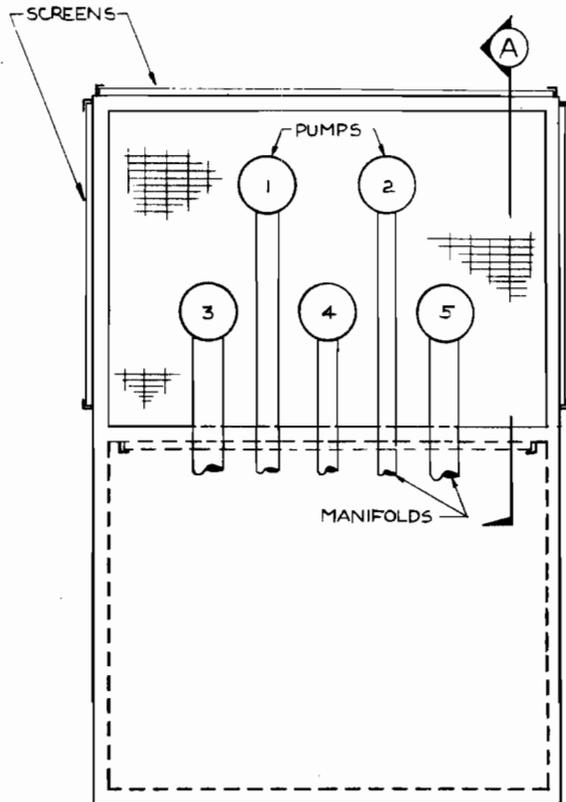
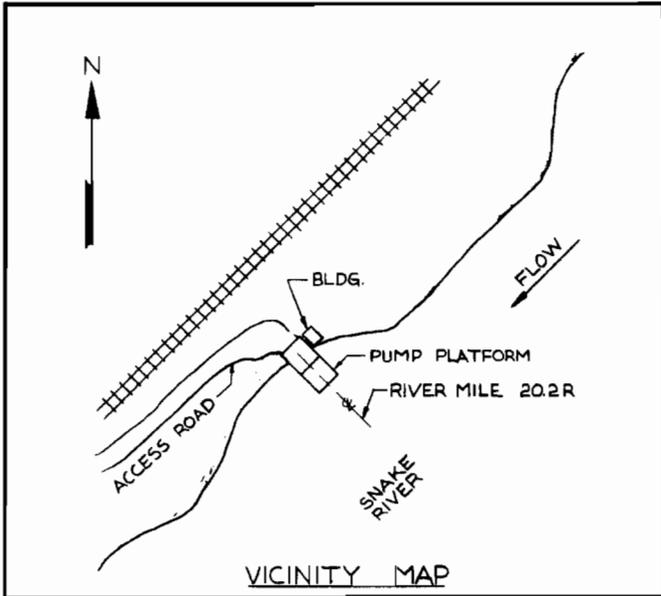
Snk017.0L—K2H Farms, Inc.



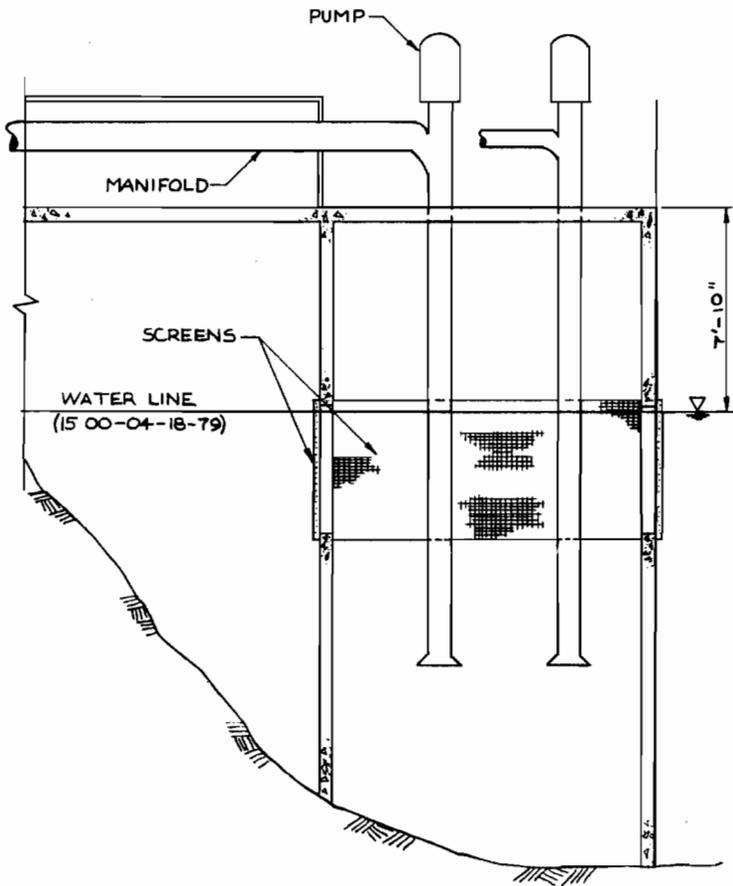
- NOTES:
- 1 DIM. MAY BE APPROXIMATED FROM DRAWING.
 - 2 PUMPS HP DISCHARGE DIA.(INCHES).
 1-3,5,6,8-10 1500 16
 4,7 500 12
 - 3 STATIONARY SCREENS:
 PANEL SCREEN MESH SIZE: 20 AND 40 GA WITH 0.125 IN. CLEAR OPENING (SCREENS SLIDE OUT FOR CLEANING).
 - 4 TRAVELING SCREENS:
 MONARCH ROTATING SCREEN MESH SIZE: 0.05" CLEAR OPENING, WINDOW SCREEN (CLEANED BY HIGH PRESSURE WATER SYSTEM).
 - 5 WATER LINE IS APPROXIMATE AND WILL FLUCTUATE WITH RESERVOIR OPERATIONS.



Snk020.2R-T and R Farms

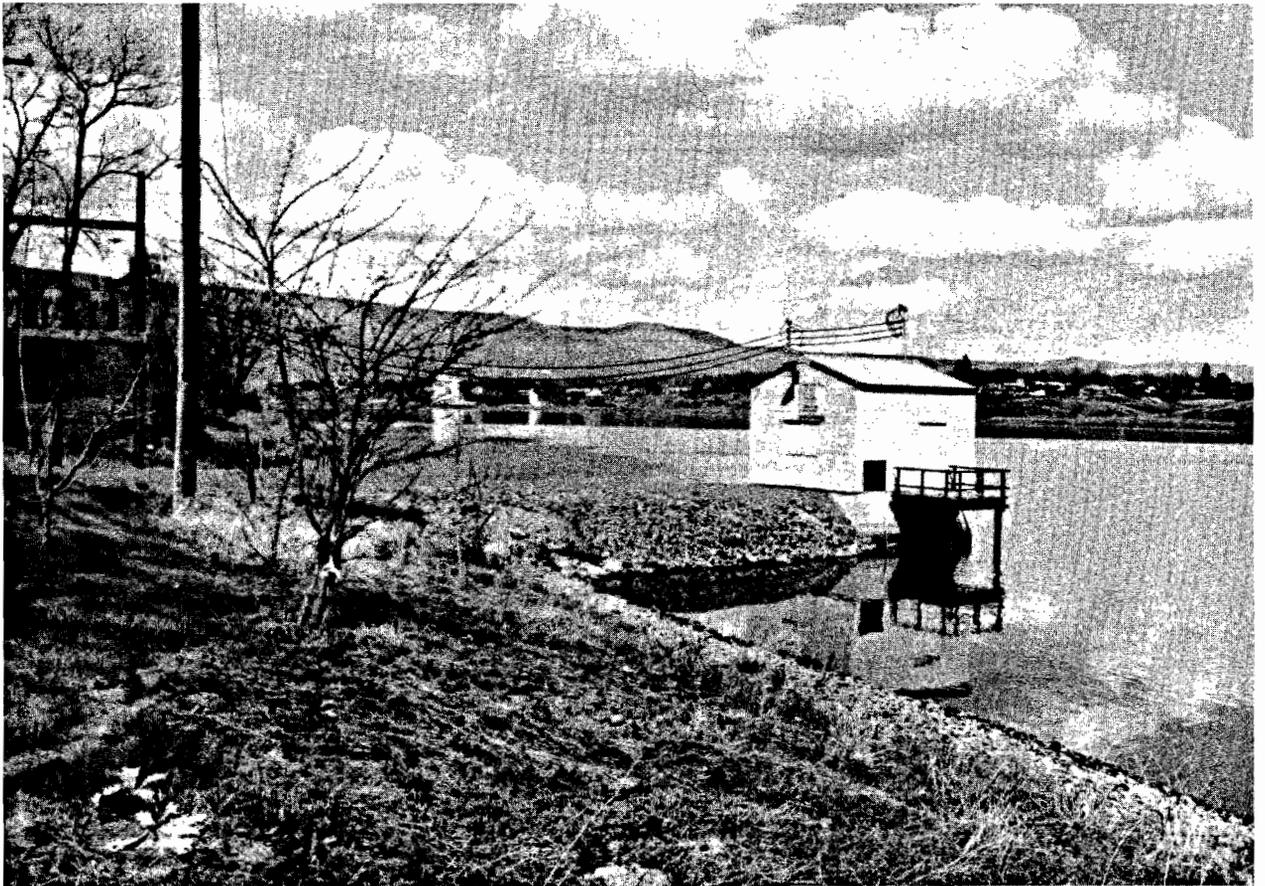


PLAN VIEW

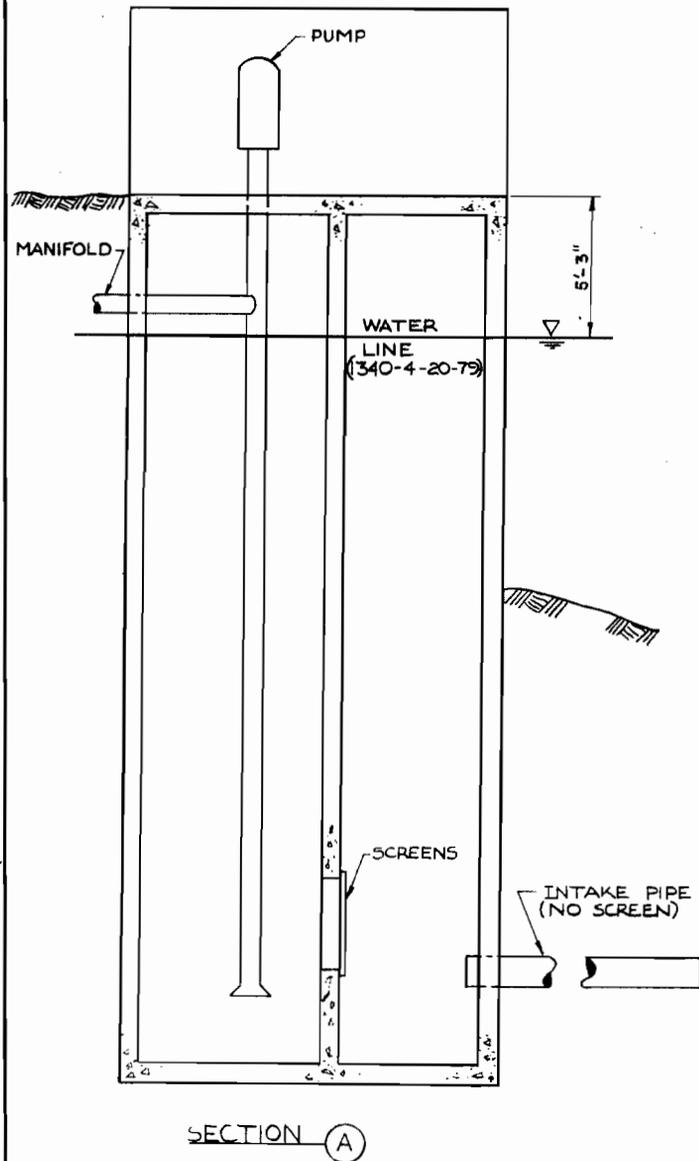
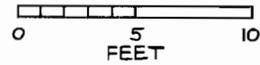
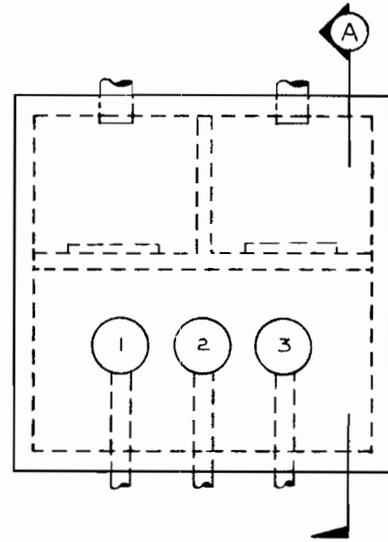
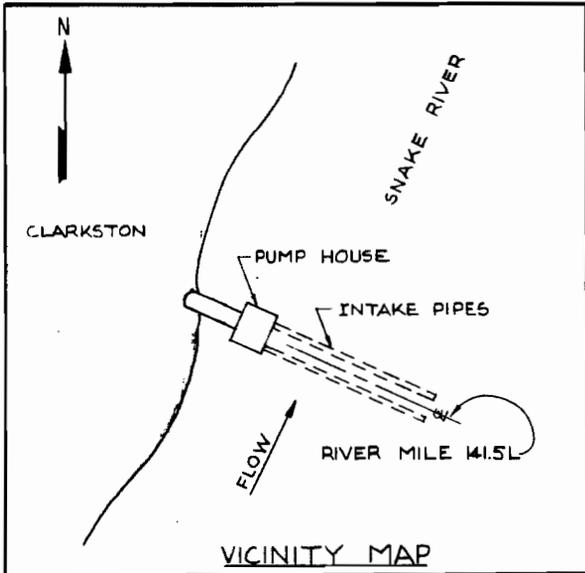


- NOTES:
- 1 DIM. MAY BE APPROXIMATED FROM DRAWING.
 - 2 PUMPS

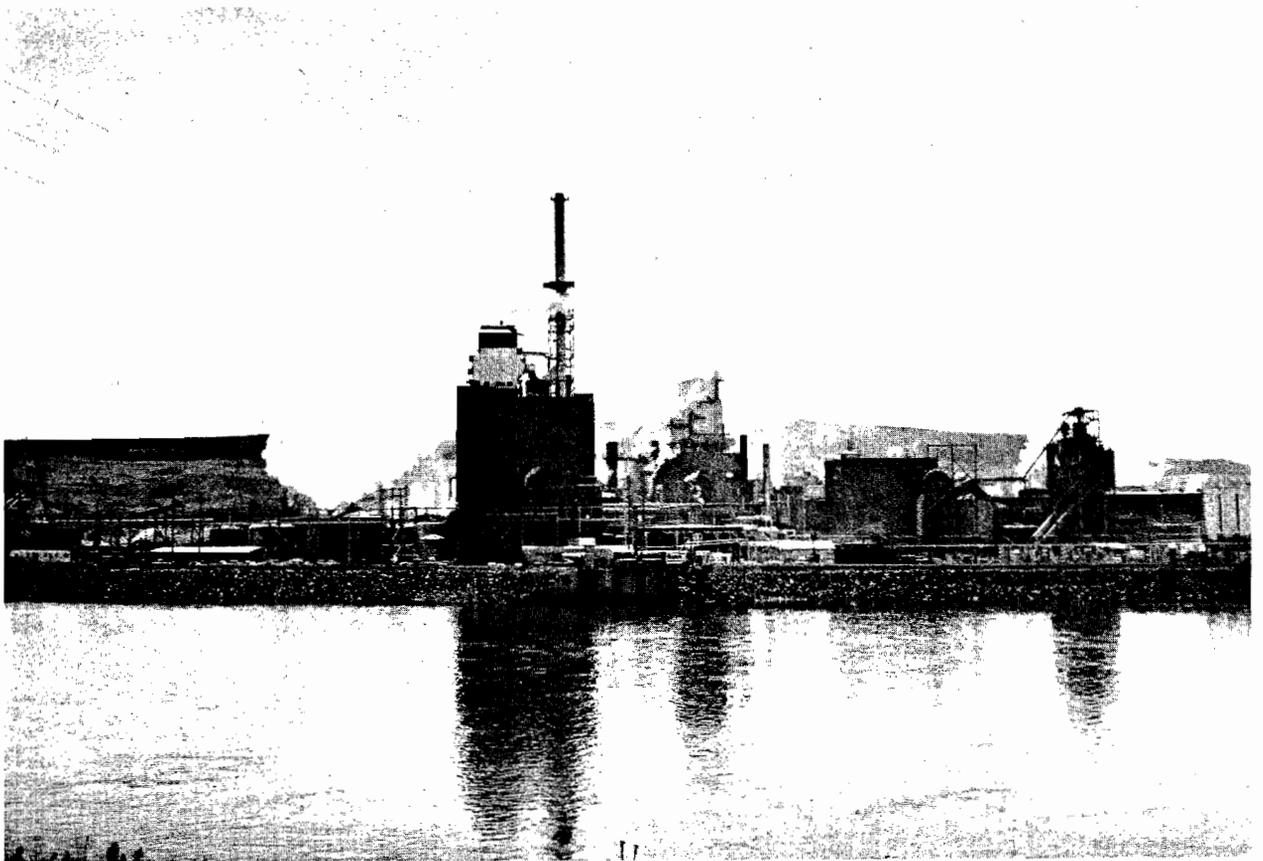
PUMPS	H.P.	DISCHARGE DIA. (INCHES)
1	600	12
2	500	10
3,5	800	16
4	400	10
 - 3 STATIONARY SCREENS:
PUMP SCREEN MESH SIZE: 18 GA. WITH 0.094 IN. CLEAR OPENING (3 SEPARATE PANELS SLIDE OUT FOR CLEANING).
 - 4 WATER LINE IS APPROXIMATE AND WILL FLUCTUATE WITH RESERVOIR OPERATIONS.



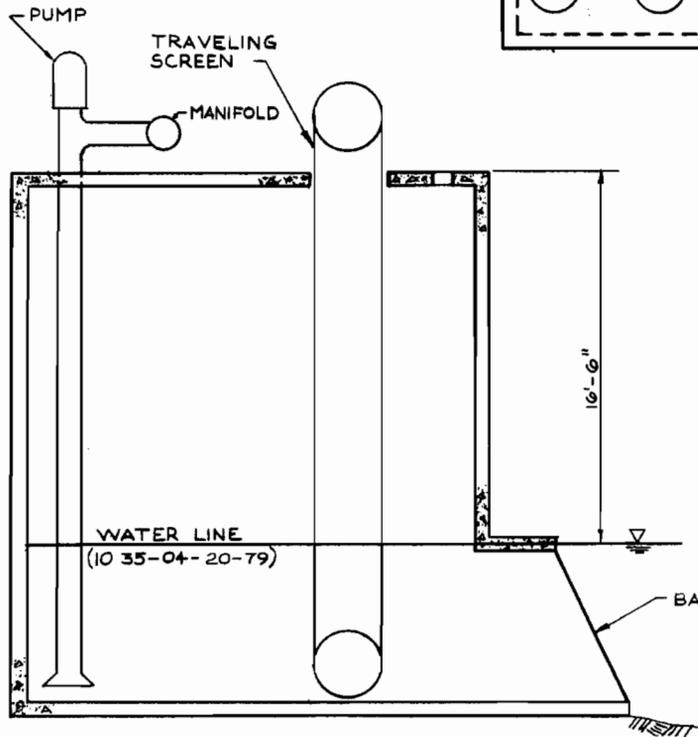
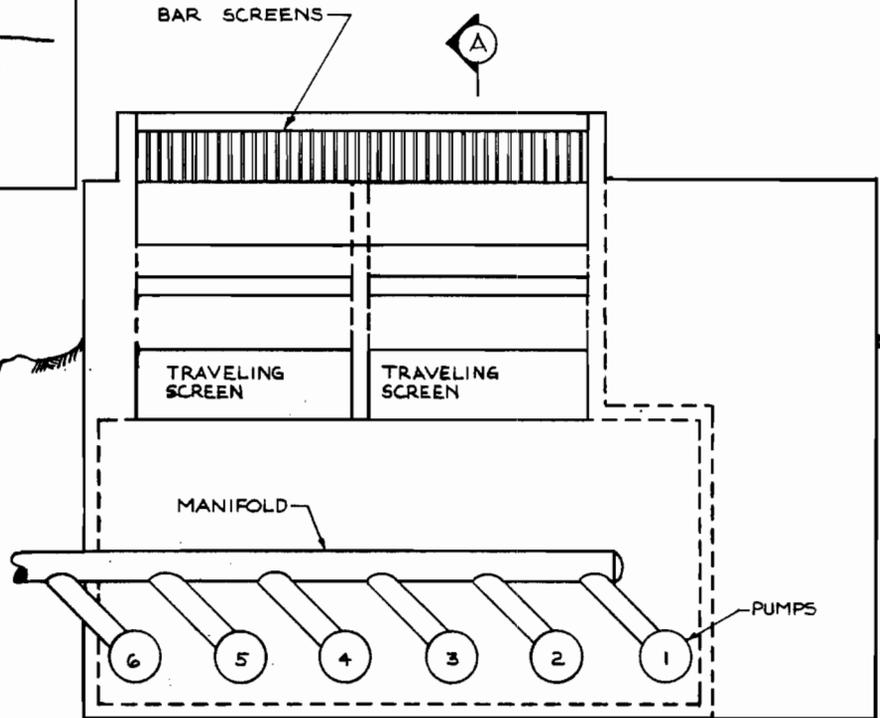
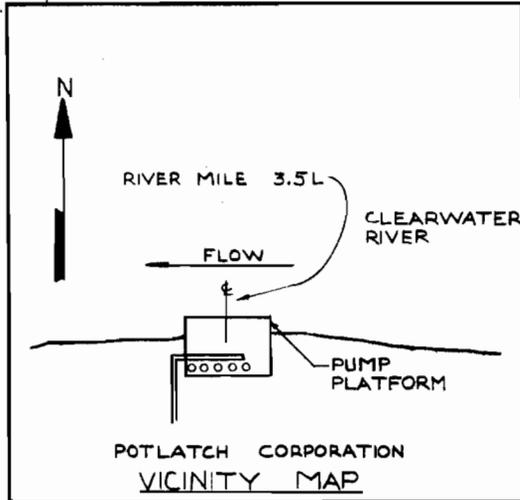
Snk141.5L—Washington Water and Power Company



- NOTES:
- 1 DIM. MAY BE APPROXIMATED FROM DRAWING.
 - 2 PUMPS H.P. DISCHARGE DIA. (INCHES)
1-3 150 10
 - 3 STATIONARY SCREENS:
PUMP SCREEN MESH SIZE: 14 GA. WITH
0.188 IN. CLEAR OPENING (SCREENS
SLIDE OUT FOR CLEANING).
 - 4 WATER LINE IS APPROXIMATE AND WILL
FLUCTUATE WITH RESERVOIR OPERATIONS.

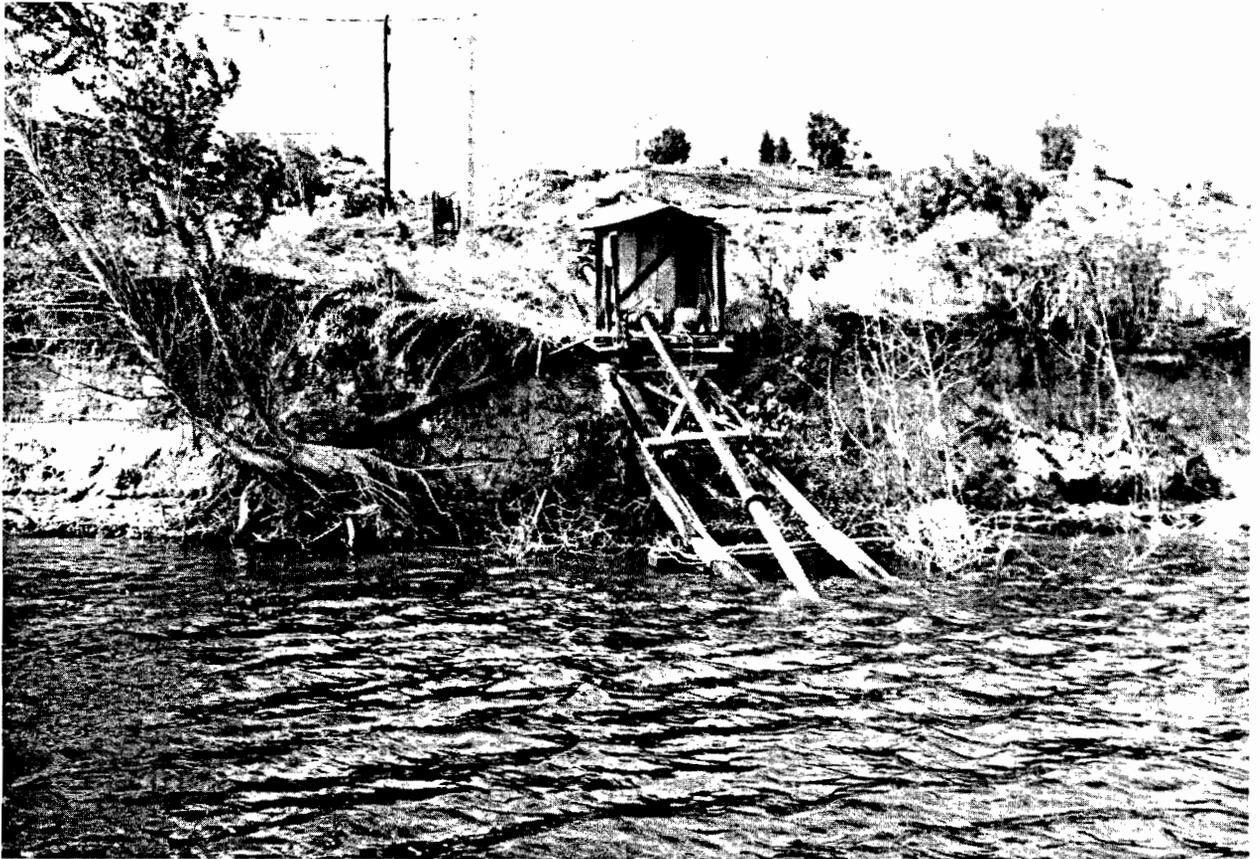


Clw003.5L—Potlatch Corporation

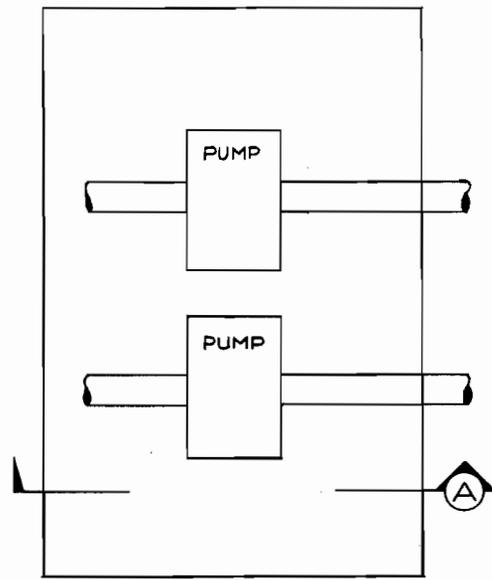


- NOTES:
- 1 DIM. MAY BE APPROXIMATED FROM DRAWING.
 - 2 PUMPS H.P. DISCHARGE DIA. (INCHES)
 1-6 125 14
 - 3 STATIONARY SCREENS:
 BAR SCREEN SIZE: 3 IN. x 3/8 IN. VERTICAL BARS WITH 2.125 IN. CLEAR OPENING BETWEEN BARS (CLEANED IN PLACE).
 - 4 TRAVELING SCREENS:
 REX SCREEN MESH SIZE: 18 GA. WITH 0.125 IN. CLEAR OPENING (SCREEN CLEANED BY HIGH PRESSURE WATER SYSTEM).
 - 5 WATER LINE IS APPROXIMATE AND WILL FLUCTUATE WITH RESERVOIR OPERATIONS.

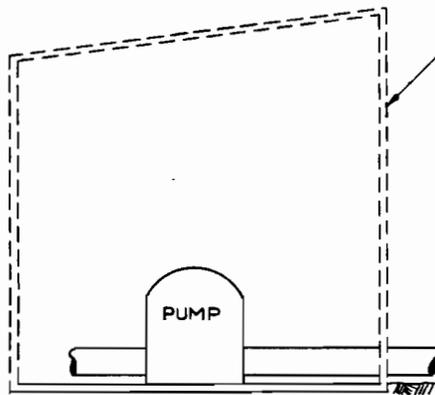
SECTION A



A typical small pump installation located throughout the study area.

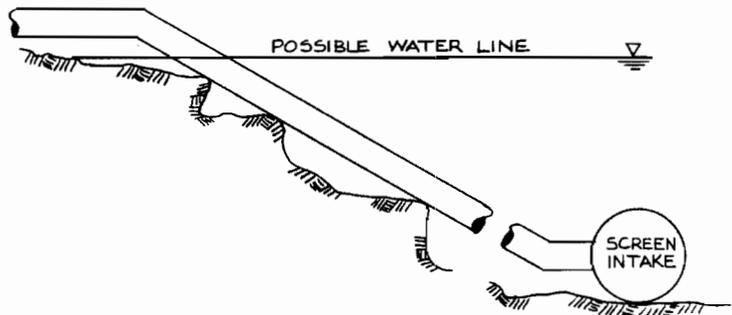


PLAN VIEW

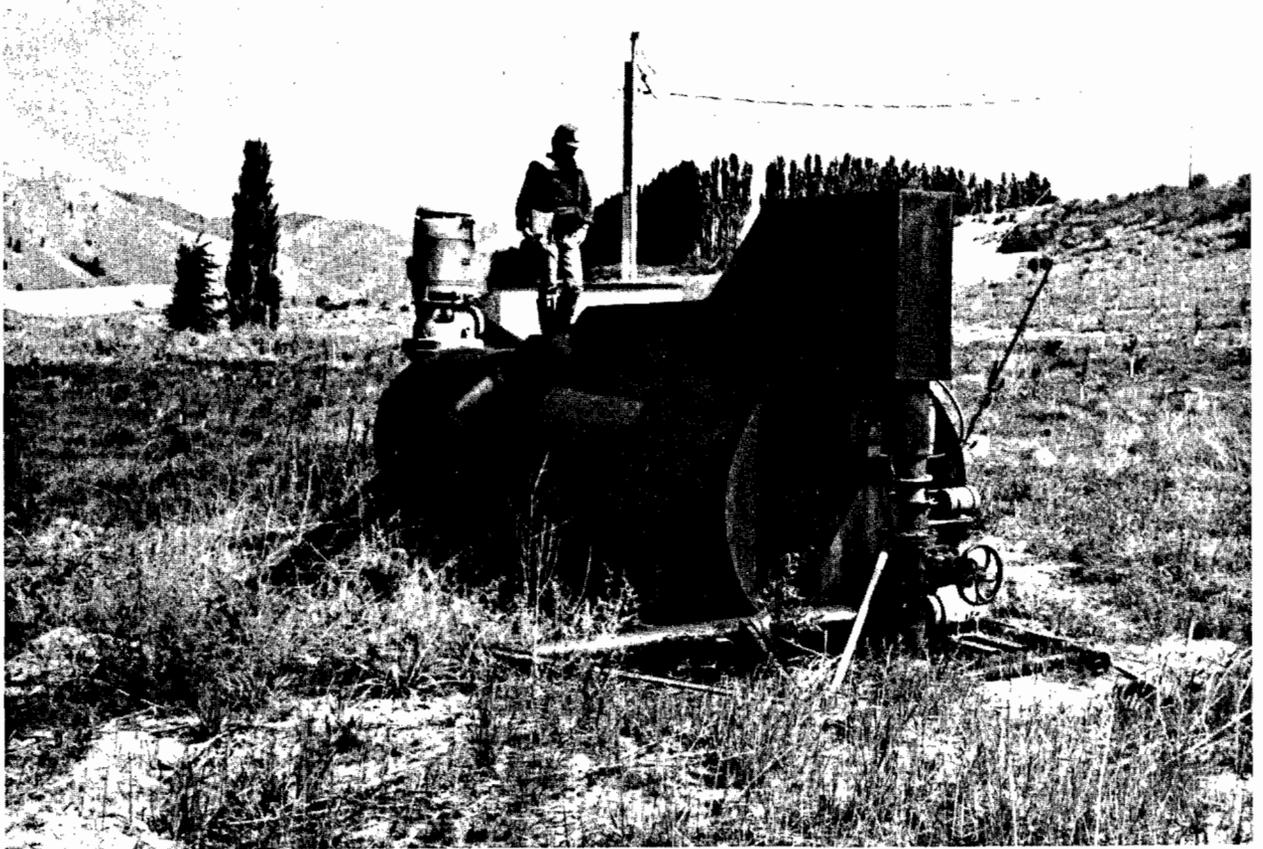
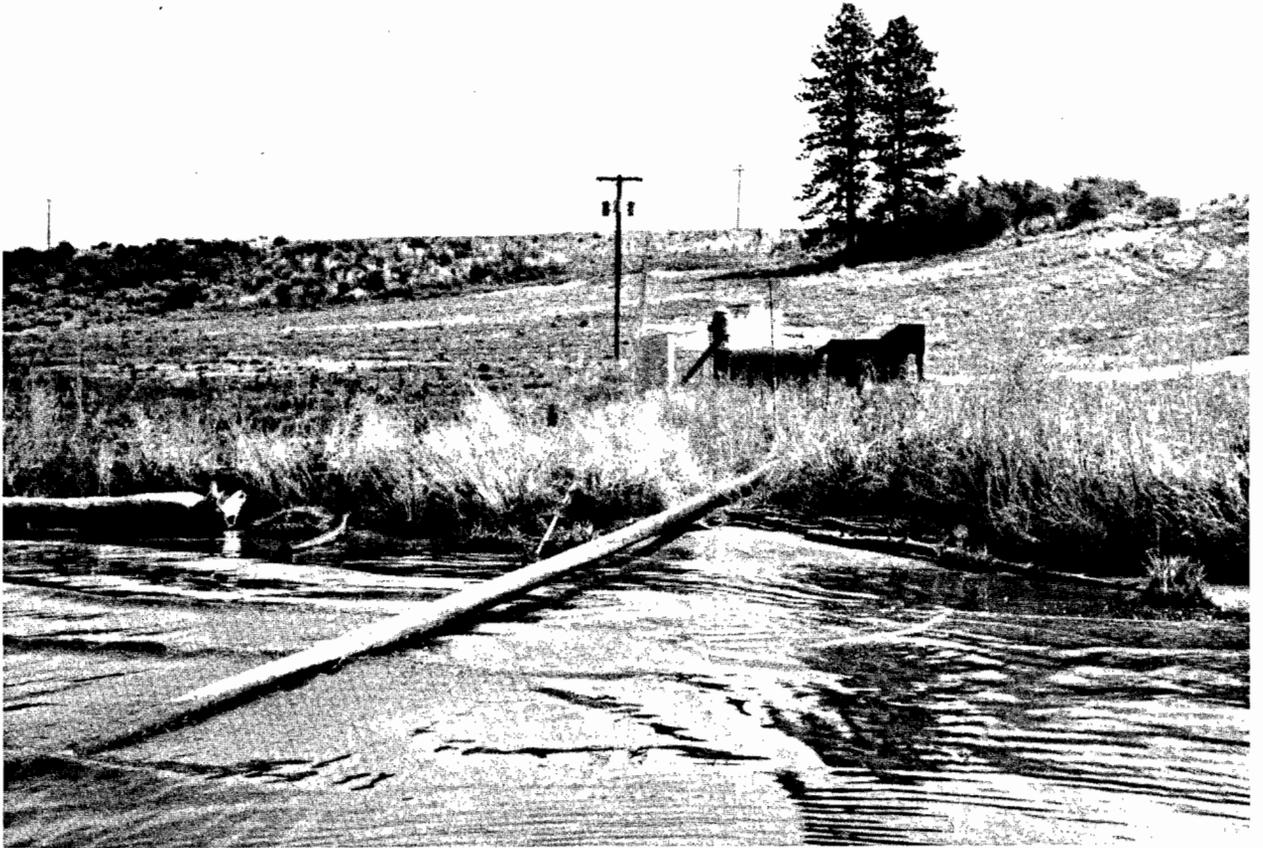


PUMP HOUSE
STRUCTURE
(AT VARIOUS SITE
LOCATIONS).

SECTION A



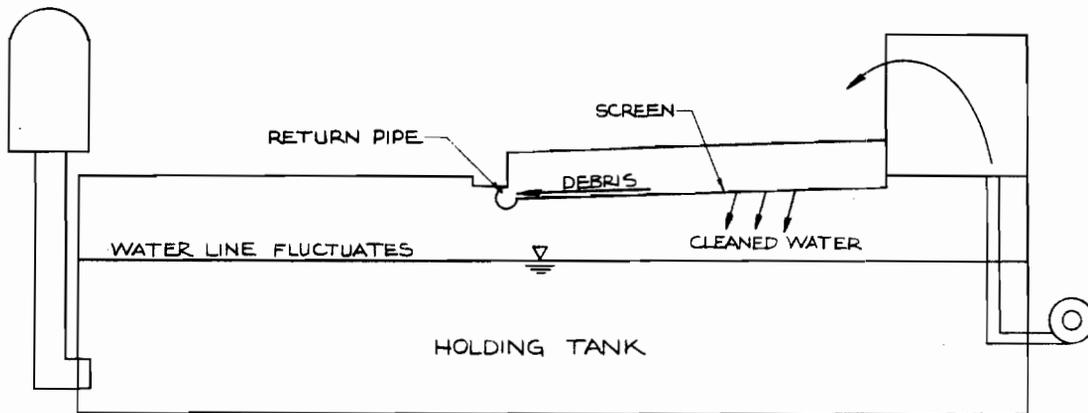
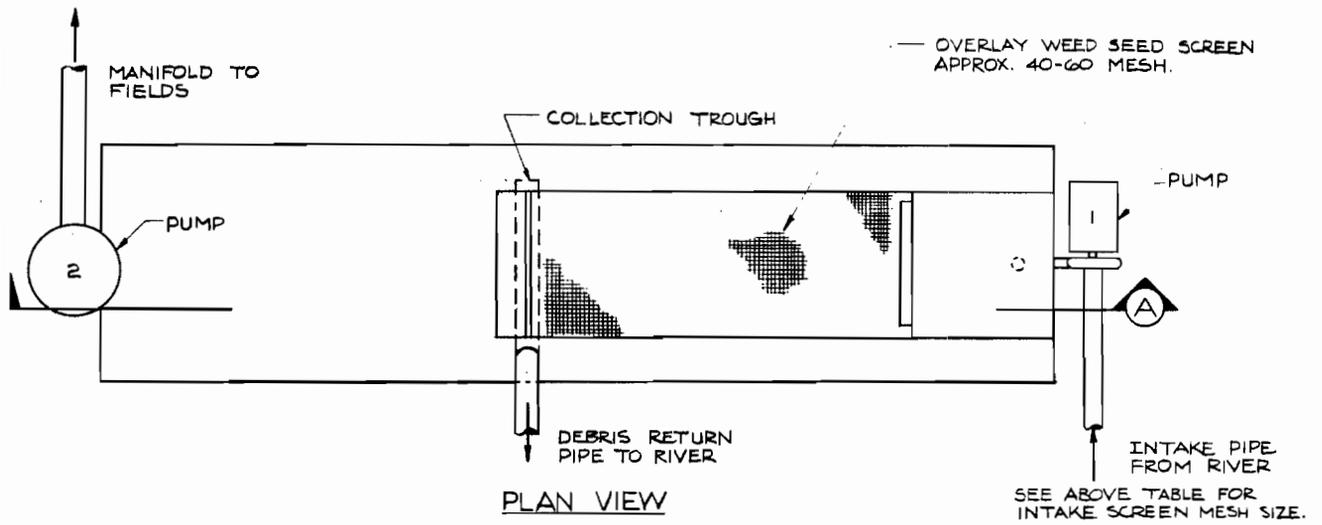
A typical small pump installation located throughout the study area.



A typical small water withdrawal and screen system used at several sites along the upper-Columbia River.

RIVER MILE	INTAKE PIPE H.P.	DISCHARGE DIA.(INCHES)	SCREEN GAUGE	CLFAR OPENING(IN)
COL. 450.5LA	20	8	6	0.375
COL. 450.5LB	10	8	5	0.015
COL. 489.6L	10	6	3	0.050
COL. 514.1R	10	3	—	0.500

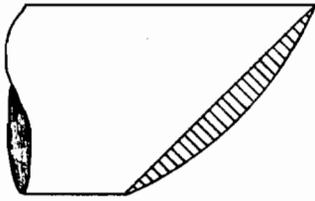
LOCATIONS



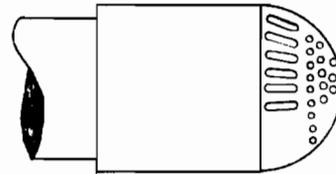
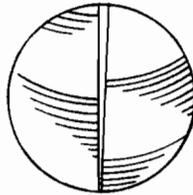
SECTION A



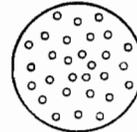
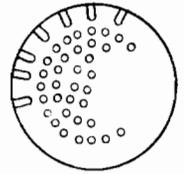
A typical small water withdrawal and screen system used at several sites along the upper-Columbia River



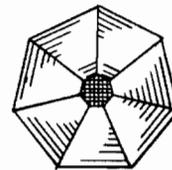
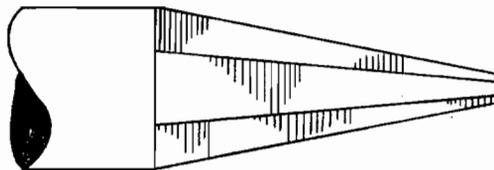
0.375 IN. BARS WITH 0.375 IN. SLITS.



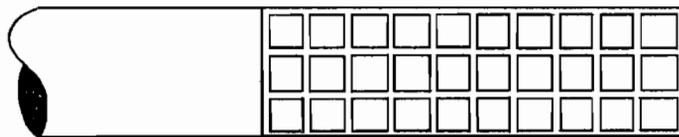
0.375 IN. SLITS WITH 0.250 IN. HOLES.



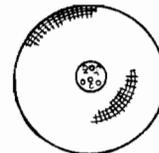
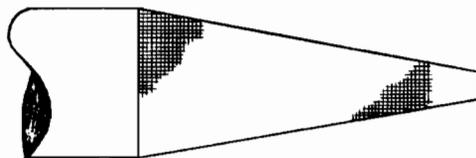
0.250 IN. HOLES



0.250 IN. BETWEEN WIRES, 0.250 IN. CLEAR OPENING MESH ON END.

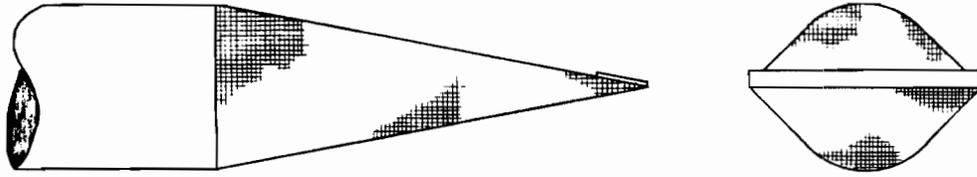


1.50 IN. CLEAR OPENINGS, END CLOSED.

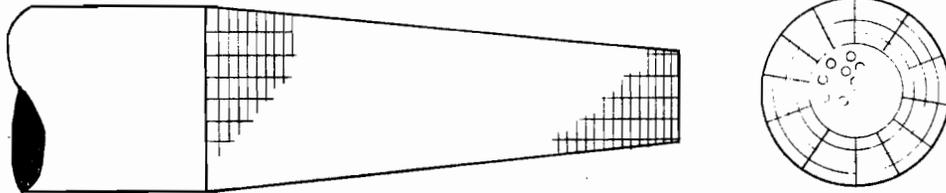


0.250 IN. CLEAR OPENING MESH, END DRILLED WITH 0.250" OR 0.188" HOLES.

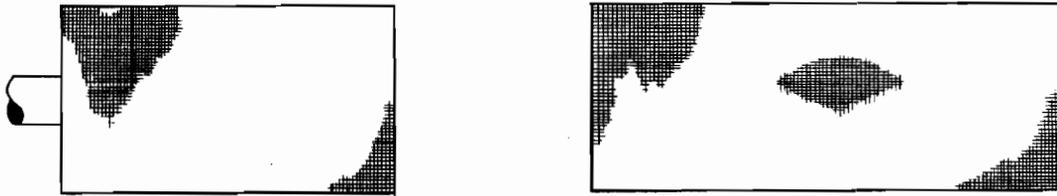
Examples of screens used on single-line intakes throughout the study area.



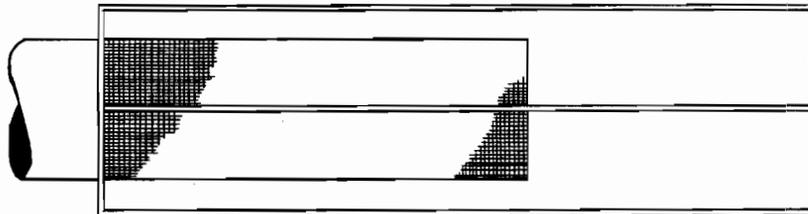
0.250 IN. CLEAR OPENING MESH, FLATTENED ON THE END.



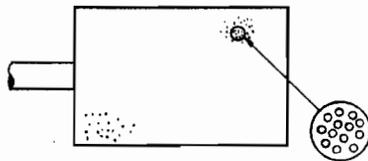
0.375 IN. SEPARATING RINGS, 0.375 IN. HOLES IN THE END.



WOOD FRAME COVERED WITH WINDOW SCREEN.



ELECTRIFIED SCREEN INTAKE.

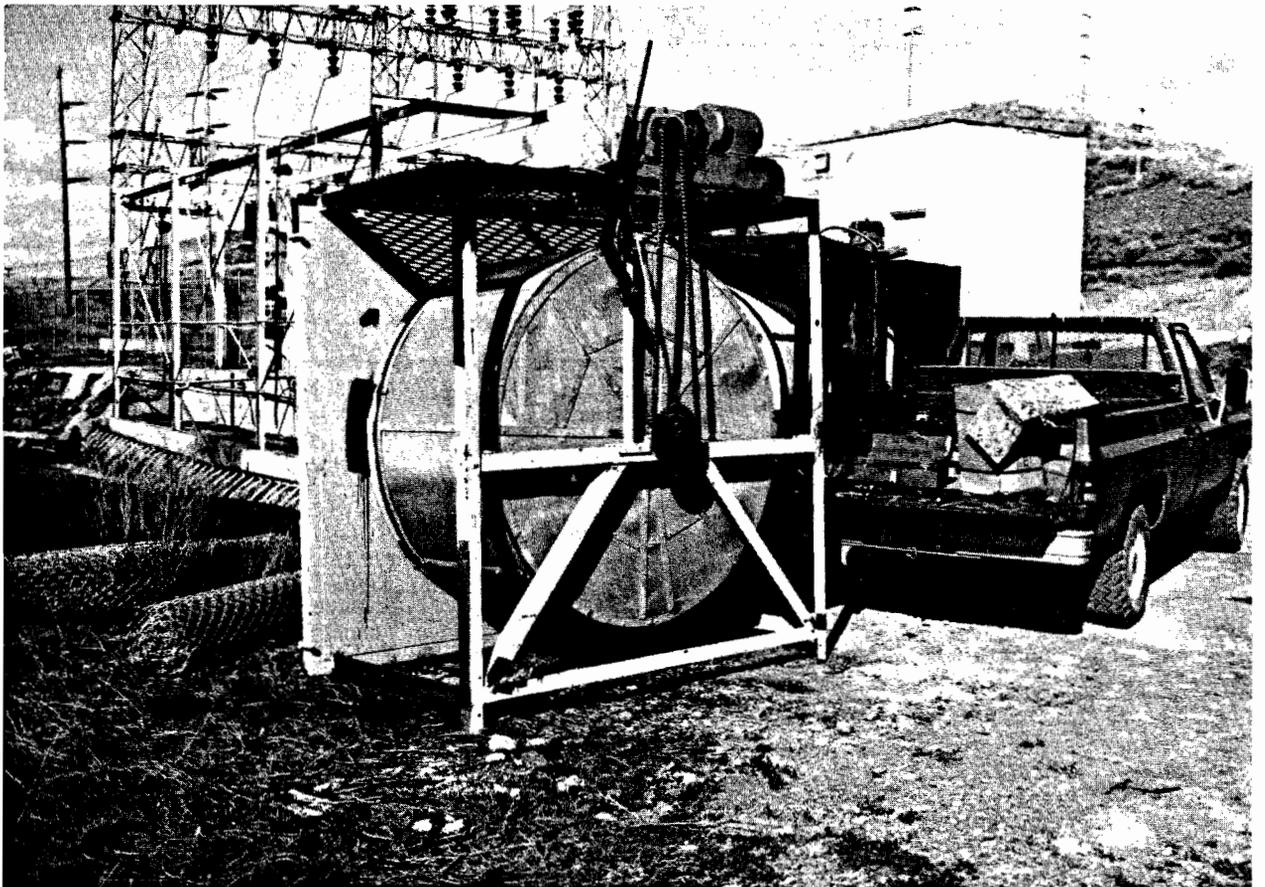


25 OR 50 GAL. DRUM PERFORATED WITH 0.125 IN. HOLES.

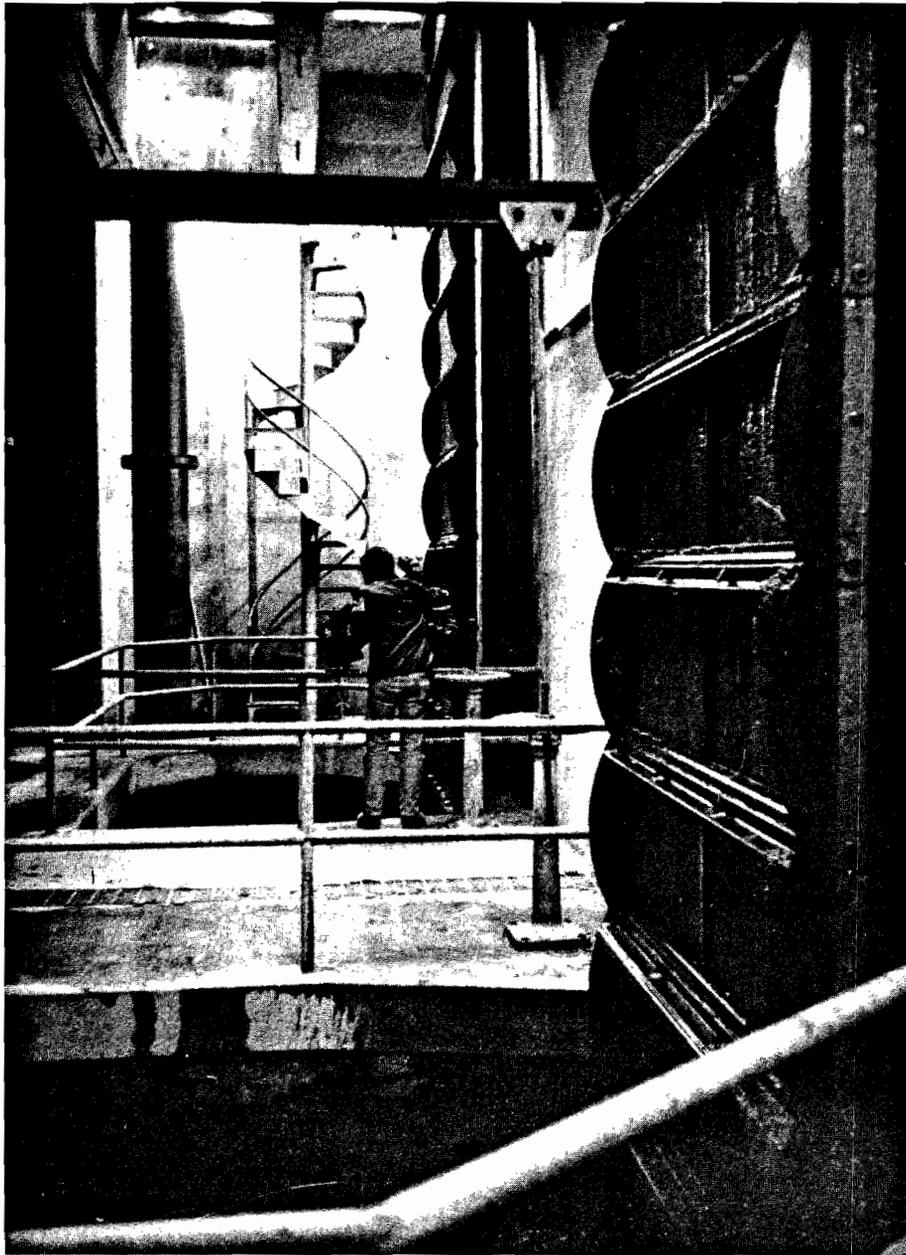


25 OR 50 GAL. DRUM FRAME COVERED WITH 0.75" CLEAR OPENING 3 GA. MESH.

Examples of screens used on single-line intakes throughout the study area.



Fine mesh revolving drum screen used at a water withdrawal site (Snk017.0L) to remove water borne weed seeds from irrigation water. Small fish may also benefit from such a screen.



Vertical traveling screens used by Richland, Washington to screen their municipal water supply (Col340.8R).

APPENDIX C

NATIONAL MARINE FISHERIES SERVICE
FISH SCREENING FACILITY CRITERIA ¹

¹ Recommended guidance for use by permitting authorities. It is also intended to provide design criteria at water withdrawals. Because it is guidance, it is open to interpretation in exceptional cases.

Salmonid Fry

Screening material with clear openings not to exceed 0.14 inch.

An approach velocity of the intake water not to exceed 0.5 foot per second immediately in front of the screens.

A bypass flow to lead fish from the face of the screen to the main streamflow. The velocity of the current should be no less than the screen approach velocity.

Salmonid Fingerlings

Screening material with clear openings not to exceed 0.25 inch.

An approach velocity of the intake water not to exceed 1.0 foot per second immediately in front of the screens.

A bypass flow to lead fish from the face of the screen to the main streamflow. The velocity of the current should be no less than the screen approach velocity.

Bass, Herring, Cyprinids, etc.

Some of these fish have eggs and/or very small fry which are moved with any water current, tides, streamflows, etc. Installations where these species are present sometimes require special-type screening and/or bypassing facilities including microscreen, louvre installations, bypass pipes or canals, and almost always require individual evaluation of the proposed project.

General Considerations

In many instances, detailed and specific evaluation of the plan and design of the proposed project is mandatory. Such factors as local flow patterns, marine weather and hydraulics, total discharge, season of discharge or water intake, location of water intake, whether marine or freshwater species, etc. may require significant evaluation by project sponsors and fishery experts.

Special Considerations

Proposed new (nonconventional) screening methods must include biological basis for the concept, an acceptable plan for evaluating the prototype installation, and an alternate plan should the initial plan not prove acceptable.

