

**2018 ANNUAL MANAGEMENT PLAN**  
**RUTH BURNETT SPORT FISH HATCHERY**

**Alaska Department of Fish and Game**

**Division of Sport Fish**

**Region III**

**April 2018**

## OVERVIEW

The Ruth Burnett Sport Fish Hatchery (RBSFH), located in Fairbanks, will meet the sport fish stocking needs for Region III by providing rainbow trout, Arctic char, Arctic grayling, King and coho salmon for stocking into lakes. Arctic char and rainbow trout eggs originate from captive broodstock housed within the William J. Hernandez Sport Fish Hatchery (WJHSFH) in Anchorage. The other species of fish will originate from local wild brood sources. The RBSFH will use well water for all phases of production and utilize various recirculation technologies to conserve water and heat resources. On site boilers will heat water to accelerate fish growth and will allow the production of a catchable 7-10 inch fish in a single year. In addition to the catchable-sized fish, the production of fingerling and subcatchable sized fish at RBSFH will meet the current and future stocking needs for the Division of Sport Fish Management Region III. Hatchery objectives and performance measures for RBSFH are described in goal three of the *Division of Sport Fish Strategic Plan, 2015 – 2019.*

ADF&G Division of Sport Fish annually publishes a *Statewide Stocking Plan for Sport Fish*. This document contains specific release sites, sizes, and numbers of fish to be released over a 5-year period. All releases for the current year have received departmental and public review.

## PRODUCTION PLAN

### **Incubation Capacity:**

Incubation is provided by 12 Heath stacks, with 14 usable trays per stack, for a total of 168 usable trays. Two Heath stacks are grouped with a common header tank with water supplied to each half-stack (7 trays).

Current incubation capacity by species:

- Rainbow trout: 1,176,000 eggs
- Arctic grayling: 210,000 eggs
- Arctic char: 336,000 eggs
- King salmon: 52,500 eggs
- Coho salmon: 280,000 eggs

### **Rearing Capacity:**

Rearing is provided by four 1.3-m<sup>3</sup> circular tanks, twenty 8-m<sup>3</sup> circular tanks, and eight 145-m<sup>3</sup> circular tanks. The 1.3-m<sup>3</sup> tanks will be operated on flow-through only, serving as the initial start-up tanks for Arctic char and Arctic grayling. The 8-m<sup>3</sup> tanks will be operated on flow-through and reuse, up to 75%, depending on species and life stage. These tanks will serve as the start-up and early rearing tanks for rainbow trout, Arctic grayling, Arctic char, King salmon and coho salmon as well as grow-out tanks for Arctic char. The 145-m<sup>3</sup> tanks are operated at 95% + recirculation and serve as grow-out tanks for rainbow trout, Arctic grayling and King salmon catchable production. Wells provide water to all culture systems with a total capacity of 1,200 gallons per minute (gpm). Approximately 850 gpm is needed to run the facility at maximum

design production. The average monthly demand is estimated to be 450–500 gpm at maximum production. An 8-inch well and a 16-inch well will provide water to the hatchery after passing through media filtration and degassing systems to remove iron, manganese, hydrogen sulfide, carbon dioxide, and nitrogen. The amount of water reuse within each culture system will vary depending on species, life stage, tank density, and system specific equipment. Maximum rearing capacity based on the bio-programming used for hatchery design is listed below. The anticipated production for 2018 is listed in Table 1.

#### Designed Maximum Rearing Capacity - RBSFH

- Rainbow trout
  - 336,400 fingerlings at 2 grams each
  - 178,000 catchables at 180 grams each
- Arctic char
  - 26,500 fingerlings at 4 grams each
  - 40,000 subcatchables at 20 grams each
  - 11,325 catchables at 120 grams each
- Lake trout
  - 100,000 subcatchables at 10 grams each
  - 850 catchables at 180 grams each
- Coho salmon
  - 222,000 fingerlings at 4 grams each
- King salmon
  - 29,600 catchables at 120 grams each
- Arctic grayling
  - 10,500 fingerlings at 2 grams each
  - 32,400 catchables at 120 grams each

### **PRODUCTION SYNOPSIS**

Fish produced at the RBSFH will reduce pressure on wild fish stocks, increase sport fishing opportunity, and provide diversity in sport fisheries throughout Interior Alaska. The RBSFH will provide fish for 104 lakes located in Region III. Lakes are stocked primarily by truck, but other methods include ATVs, fixed wing aircraft, helicopter, and backpack. All production is for lake stocking; no anadromous releases are scheduled. Catchable fish stocked from RBSFH in 2018 will be King salmon, Arctic char, Arctic grayling, and rainbow trout. Fingerling Arctic grayling, coho salmon, and rainbow trout will be stocked from RBSFH in 2018. The appropriate number of rainbow trout, Arctic char, King salmon and Arctic grayling will be reared during 2018 to meet the 2019 stocking requests for catchable-sized fish.

#### **Lake Stocking**

##### ***Rainbow Trout***

**General Information:** Rainbow trout production is the largest component of the Division of Sport Fish's lake stocking program in Region III. A captive broodstock held in rearing tanks at

WJHSFH supports the program. The broodstock originated from Swanson River rainbow trout wild stock on the Kenai Peninsula and has been held in captivity since 1982. To remain consistent with the *Statewide Stocking Plan for Sport Fish, 2018*, and the conditions of many fish transport permits (FTPs), the RBSFH will attempt to stock only all-female triploid rainbow trout. Triploid rainbow trout populations are usually all-female, but some mixed-sex triploid rainbow trout may be produced as well. If there is a shortage of all-female triploid eggs, mixed-sex triploid, all-female diploid, or mixed-sex diploid rainbow trout may be substituted in category one lakes. Catchable fish are stocked in early and midsummer, and fingerling fish are stocked in early summer.

**Release Information:** In June 2018, approximately 109,500 rainbow trout fingerling produced by RBSFH will be stocked in 24 lakes throughout Region III (Table 1). Catchable stocking will begin in mid-May, and approximately 140,100 fish will be released into 70 Region III lakes. Specific release sites and numbers of fish to stock can be found in the *Statewide Stocking Plan for Sport Fish, 2018*.

**Egg take and Rearing:** In February 2018, approximately 668,900 eyed rainbow trout eggs (all-female triploid) were transported from WJHSFH in Anchorage to RBSFH (Table 2). Upon hatch, these fish will be ponded and reared in 8-m<sup>3</sup> tanks until June when two-gram fingerlings will be released into Region III area lakes. The remaining fingerlings, approximately 150,000, will continue to be reared in the 8-m<sup>3</sup> until they reach 4-grams and then will be transferred into 145-m<sup>3</sup> tanks and raised for 2019 catchable stocking.

#### ***Arctic Char***

**General Information:** Arctic char fingerling and subcatchables are stocked in odd years with catchables being stocked annually. A captive Arctic char broodstock has been established at WJHSFH, eliminating the need to conduct remote egg takes to meet production goals. To remain consistent with the *Statewide Stocking Plan for Sport Fish, 2018*, and the conditions of many FTPs, the RBSFH will attempt to stock only mixed-sex triploid Arctic char. If there is a shortage of certified triploid Arctic char, noncertified, or diploid Arctic char may be substituted in category one lakes.

**Release information:** Starting in early May 2018, 7,000 catchable Arctic char will be stocked into 11 Region III lakes (Table 1). 2018 Arctic char release locations and numbers of fish are similar, but will vary from those found in the *Statewide Stocking Plan for Sport Fish, 2018* due to reallocation after the Statewide Stocking plan was released.

**Egg take and Rearing:** Approximately 18,000 eyed eggs were transferred from WJHSFH in late December 2017. These fish were transferred in late March 2018 into a single 1.3m<sup>3</sup> tank. In mid-May, the char were moved into 8m<sup>3</sup> tanks until they reach a catchables size in 2019 when they will be stocked. In late December 2018, an estimated 105,000 eggs will be transferred from WJHSFH for 2019 fingerling and subcatchable and 2020 catchable production (Table 2).

#### ***Arctic Grayling***

**General Information:** Wild Chena River Arctic grayling serve as the sole brood source for eggs for the RBSFH, as well as providing green eggs to the WJHSFH in support of Region II Arctic

grayling programs. To remain consistent with the *Statewide Stocking Plan for Sport Fish, 2018*, and the conditions of many FTPs, the RBSFH will attempt to stock only mixed-sex triploid Arctic grayling. If there is a shortage of certified triploid Arctic grayling, noncertified, or diploid Arctic grayling may be substituted in category one lakes.

**Release information:** Beginning in mid May 2018, approximately 26,800 Arctic grayling catchables will be stocked into 47 Region III lakes. In early August 2018, 6,000 grayling fingerling will be stocked in one Region III lake (Table 1). Specific release sites and numbers of fish to stock can be found in the *Statewide Stocking Plan for Recreational Fisheries, 2018*.

**Egg take and Rearing:** In early May, adult Arctic grayling will be collected from the Chena River and held until fish are ready to spawn. Approximately 42,409 eggs will be collected (Table 2). Eggs and milt from 5 pair are pooled and activated using sterile saline. Fertilized eggs are then pressure shocked onsite, surface disinfected and transferred to incubators within the RBSFH. Pressure shocked green eggs will be shipped to the WJHSFH to meet Region II stocking goals. Four days post hatch, grayling fry will be ponded into 1.3m<sup>3</sup> tanks. After one to two months, they will be transferred into a single 8m<sup>3</sup> tank for rearing until fingerling are released in early August. At that point, approximately 28,000 Arctic grayling will be transferred into a 145m<sup>3</sup> tank for 2019 catchable production.

### ***King Salmon***

**General Information:** Catchable mixed-sex diploid king salmon are released in thirteen landlocked lakes in Region III primarily to provide winter ice fisheries. The RBSFH will not produce any king salmon for anadromous releases. Hatchery king salmon used for lake stocking originate from eggs taken from wild stock adults returning to the Salcha or Chena River. Brood source is dependent on area management staff preferences given run strength, timing, and river conditions.

**Release Information:** In fall 2018 RBSFH will stock 140-gram catchable king salmon in 13 lakes within Region III (Table 1). The majority of the fish, 37,000, will be stocked in October. An additional 3,000 will be stocked in late fall to support winter fishing opportunities in the Fairbanks area. Specific release sites and numbers of fish to stock can be found in the *Statewide Stocking Plan for Sport Fish, 2018*.

**Egg take and Rearing:** In mid-July, approximately 53,900 king salmon eggs will be collected from wild stock Salcha or Chena River broodstock for 2019 catchable production (Table 2). Adult king salmon will be collected at the remote egg-take site, eggs fertilized and transported to the RBSFH. Kidney and ovarian fluid samples will be collected from all adult king salmon spawned and tested for bacterial and viral pathogens as part of the routine brood stock screening requirements. The fertilized eggs will be family tracked for BKD; and, if any female brood tests positive for BKD the fertilized eggs from that incubation tray will be destroyed. In late November to early December, king salmon fry will be ponded into 8-m<sup>3</sup> tanks. Upon reaching approximately four grams in size, they will be transferred into a single 145-m<sup>3</sup> tank for catchable production.

### ***Coho Salmon***

**General Information:** Mixed-sex diploid coho salmon fingerlings will be stocked in five lakes in Region III during 2018. These fish are primarily harvested in the winter ice fishery, but some are harvested in mid to late summer. The RBSFH will not produce any coho salmon for anadromous release. Hatchery coho salmon used for lake stocking originate from eggs taken from wild stock adults returning to the Delta Clearwater River.

**Release Information:** The RBSFH will stock 75,500 4-gram fingerling coho salmon into five Region III lakes in June of 2018. Specific lakes and stocking numbers can be found in the *Statewide Stocking Plan for Sport Fish, 2018*.

**Egg take and Rearing:** In mid-October, approximately 75,800 coho salmon eggs will be collected for 2019 fingerling production (Table 2). Kidney samples will be collected from all adult female coho salmon spawned and tested for BKD. The fertilized eggs will be family tracked, and if any female brood fish tests positive for BKD, the fertilized eggs from that incubation tray will be destroyed. Emergence will occur in January, and the fry will be transferred into 8-m<sup>3</sup> tanks. Coho salmon fingerlings will be released in June of 2019 weighing approximately 4 grams.

## **MANAGEMENT CONSIDERATIONS**

### **Lake Stocking**

Rainbow trout, Arctic grayling, king and coho salmon, and Arctic char are stocked in lakes on a "put-and-take" or "put-and-grow" basis; no special management considerations are required. Sport fish season and bag limits generally provide for a maximum harvest of these stocked species. A small number of Region III lakes are managed to achieve longer residency times to recruit larger fish into the fishery. Specific objectives for these programs are provided in the *Statewide Stocking Plan for Sport Fish, 2018*.

## **2018 PROJECTED HARVESTS**

Table 4 summarizes projected 2018 sport fish harvest rates for projects supported through fish production at the RBSFH. The harvest rates are based on the Division of Sport Fish Statewide Harvest Survey (SWHS) estimate for 2016. The 2018 stocking rate and angler fishing patterns are most comparable to 2016 and should most accurately project 2018 harvests.

## **EVALUATION**

Stocked lake fisheries are evaluated in one of three ways: fish population monitoring to determine basic population information, population monitoring to determine length–age structures, and two sample mark–recaptures to determine population abundance.

Sampling to determine basic population information is conducted on lakes in which managers only wish to determine if stocked fish are present, to visually assess their condition (robust or thin) and health, and/or to make a crude estimate of their length distribution. A single sampling

event is used to collect this information. The quantity of gear used and soak times correspond to lake size.

Sampling for population length–age structure is conducted on lakes in which managers wish to determine if current stocking strategies have created the desired population structures and subsequently, the desired fisheries. A single sampling event is also used to collect this information. The quantity of gear used and soak times are dependent on lake size and are more intensive than sampling for basic population information.

Sampling to determine population abundance is conducted on lakes in which managers need more information about population parameters than single sampling can achieve. Managers often need to know the abundance of age/size cohorts, or different stocking groups to determine if stocking regimes are providing the number and size of fish necessary to support a fishery, or to compare different stocking methods. Two sample mark-recapture events are used to gather this information. The quantity of gear, soak times, and gear placement is study specific.

Sport fishery catch, harvest, and effort statistics are estimated annually by the Division of Sport Fish SWHS.

## **RESEARCH**

Specific research will be conducted at the RBSFH in the future.

## **LITERATURE CITED**

Alaska Sport Fishing Survey database [Intranet]. 1996– . Anchorage, AK: Alaska Department of Fish and Game, Division of Sport Fish (cited April 1, 2015). Available from: [https://intra.sf.adfg.state.ak.us/swhs\\_est/](https://intra.sf.adfg.state.ak.us/swhs_est/)

## APPROVALS

### **Recommendation for Approval: Ruth Burnett Sport Fish Hatchery Annual Management Plan, 2018.**

Approved via email 5/10/2018

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Gary George, Ruth Burnett Sport Fish Hatchery

Approved via email 5/11/2018

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Jeff Milton, Hatchery Program, Division of Sport Fish

Approved via email 5/29/2018

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John Linderman, Region III Regional Supervisor, Division of Commercial Fisheries

Approved via email 5/31/2018

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Tom Taube, Acting Region III Regional Supervisor, Division of Sport Fish

Approved via email 5/29/2018

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Lorraine Vercessi, PNP Hatchery Program Coordinator,  
Division of Commercial Fisheries

**Approval: The 2018 Annual Management Plan for the Ruth Burnett Sport Fish Hatchery is hereby approved.**

Approved via email 5/31/2018

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Tom Taube, Deputy Director, Division of Sport Fish

Approved via email 5/30/2018

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Peter Bangs, Assistant Director, Division of Commercial Fisheries



Table 1.–Summary of Ruth Burnett Sport Fish Hatchery lake stocking releases, in 2018.

| Species                      | Release Location | Number  | Size <sup>1</sup> | Type <sup>2</sup> | Number of Stocking Locations |
|------------------------------|------------------|---------|-------------------|-------------------|------------------------------|
| Rainbow Trout                | Region III       | 109,500 | Fingerling        | 3N                | 24                           |
|                              |                  | 140,100 | Catchable         | 3N                | 70                           |
|                              | Total            | 249,600 |                   |                   | 94                           |
| Arctic Char                  | Region III       | 0       | Fingerling        | 3N                | 0                            |
|                              |                  | 0       | Subcatchable      | 3N                | 0                            |
|                              |                  | 7,000   | Catchable         | 3N                | 13                           |
| Total                        | 7,000            |         |                   | 13                |                              |
| Arctic Grayling <sup>3</sup> | Region III       | 6,000   | Fingerling        | 3N                | 1                            |
|                              |                  | 26,800  | Catchable         | 3N                | 47                           |
|                              | Total            | 32,800  |                   |                   | 48                           |
| King Salmon                  | Region III       | 40,000  | Catchable         | 2N                | 13                           |
|                              | Total            | 40,000  |                   |                   | 13                           |
| Coho Salmon                  | Region III       | 75,500  | Fingerling        | 2N                | 5                            |
|                              | Total            | 75,500  |                   |                   | 5                            |
| Grand Total                  |                  | 409,200 |                   |                   | 173                          |

<sup>1</sup> Fingerling: 1 – 4 g, Subcatchable: 15 – 70 g, Catchable: greater than 70 g.

<sup>2</sup> 2N = Diploid; 3N = Triploid;

<sup>3</sup> Arctic grayling production dependent on budgetary approval

Table 2.–Summary of Division of Sport Fish lake stocking egg takes, in 2018.

| Species         | Brood Stock                            | Females <sup>1</sup> | Number of Eggs       |
|-----------------|--|----------------------|----------------------|
| Rainbow Trout   | WJHSFH (brood origin – Swanson River)  | 335                  | 668,900 <sup>2</sup> |
| Arctic Char     | WJHSFH (brood origin – Lake Aleknagik) | 20                   | 105,000 <sup>2</sup> |
| Arctic Grayling | Chena River                            | 14                   | 42,400 <sup>3</sup>  |
| King Salmon     | Salcha River                           | 8                    | 53,900 <sup>3</sup>  |
| Coho Salmon     | Delta Clearwater River                 | 19                   | 75,800 <sup>3</sup>  |
| Total           |  | 391                  | 919,700              |

<sup>1</sup> The number listed reflects the estimated total number of females needed to produce the requested green egg allotment.

<sup>2</sup> The number listed is the estimated number of eyed eggs that will be taken into RBSFH, which are provided by WJHSFH in Anchorage.

<sup>3</sup> The number listed reflects the estimated number of green eggs that will be taken into RBSFH.

Table3. Fish Transport Permits (FTP's) for fish releases and egg transports for the Ruth Burnett Sport Fish Hatchery

| Area      | Species       | Stock             | FTP      | Expiration Date | Release Site  | Lake Category | Life Stage                              |
|-----------|---------------|-------------------|----------|-----------------|---|---------------|---|
| Delta     | Rainbow Trout | WJHSFH Swanson R. | 14A-0022 | 12/31/2023      | Backdown L., Bluff Cabin L., Bolio L., Bullwinkle L., Coal Mine #5, Craig L., Dick's Pond, Doc L., Donna L., Donnelly L., Forrest L., Four Mile L., Fourteen Mile L., Ghost L., Hidden L. (Tok), Jan L., Kenna L., Ken's Pond, Koole L., Lisa L., Little Donna L., Little Lost L., Mark L., Monte L., North Twin L., Paul's Pond, Quartz L., Rainbow L., Rich 81, Shaw Pond, South Twin L., Weasel L.   | 1             | Fingerling<br>Subcatchable<br>Catchable |
| Delta     | Rainbow Trout | WJHSFH Swanson R. | 14A-0023 | 12/31/2023      | Chet L., Last L., Nickel L., Rapids L.  | 2             | Fingerling<br>Subcatchable<br>Catchable |
| Delta     | Rainbow Trout | WJHSFH Swanson R. | 14A-0024 | 12/31/2023      | Rapids L.   | 3             | Fingerling<br>Subcatchable<br>Catchable |
| Delta     | Rainbow Trout | WJHSFH Swanson R. | 15A-0010 | 12/31/2023      | Big "D" Pond  | 4             | Fingerling<br>Subcatchable<br>Catchable |
| Fairbanks | Rainbow Trout | WJHSFH Swanson R. | 14A-0025 | 12/31/2023      | Ballaine L., Bathing Beauty Pond, Bear L., Cather's L., Chena HS #25, Chena HS #30, Chena L., Dune L., Geskakmina L., Grayling L., Hidden L. (EAFB), Johnson Pit #2, Kid's Fishing Pond, Kimberly L., Little Harding, Lundgren Pond, Monterey L., Moose Lake, Mosquito Creek L., Mullins Pit, N. Chena Pond, N. Pole Pond, Otto L., Parks Hwy 261, Polaris L., Pomeroy Pond, Rich 28 Mile Pit, Rich 31 Mile Pit, Sirlin Dr. Pond, Steese Hwy 34.6, Stringer Rd. Pond, Triangle L., Wainwright #6, West Iksgiza L. | 1             | Fingerling<br>Subcatchable<br>Catchable |

Table3. Fish Transport Permits (FTP's) for fish releases and egg transports for the Ruth Burnett Sport Fish Hatchery

| Area       | Species       | Stock             | FTP      | Expiration Date | Release Site   | Lake Category | Life Stage                        |
|------------|---------------|-------------------|----------|-----------------|--|---------------|-----------------------------------|
| Fairbanks  | Rainbow Trout | WJHSFH Swanson R. | 16A-0003 | 12/31/2023      | Cushman L.   | 2             | Fingerling Subcatchable Catchable |
| Fairbanks  | Rainbow Trout | WJHSFH Swanson R. | 14A-0026 | 12/31/2023      | Birch L., Lost L., Manchu L.   | 3             | Fingerling Subcatchable Catchable |
| Fairbanks  | Rainbow Trout | WJHSFH Swanson R. | 15A-0003 | 12/31/2023      | Chena HS #45.5, Chena HS #47.9, Chena HS #56, Nenana City Pond, Nordale #2, Olnes Pond, Steese Hwy 28.8, Steese Hwy 29.5, Steese Hwy 31.6, Steese Hwy 33.5, Steese Hwy 35.8, Steese Hwy 36.6, Z Pit. | 4             | Fingerling Subcatchable Catchable |
| Glennallen | Rainbow Trout | WJHSFH Swanson R. | 14A-0027 | 12/31/2023      | Buffalo L., Junction L., North Jans L., Ryan L., South Jans L., Strelna L., Tolsona Mt. L.   | 1             | Fingerling Subcatchable Catchable |
| Glennallen | Rainbow Trout | WJHSFH Swanson R. | 14A-0028 | 12/31/2023      | Gergie L., Old Road L., Pippin L., Round L., Silver L., Tolsona L.   | 2             | Fingerling Subcatchable Catchable |
| Glennallen | Rainbow Trout | WJHSFH Swanson R. | 14A-0029 | 12/31/2023      | Crater L., DJ L., Sculpin L., Tex Smith L.   | 3             | Fingerling Subcatchable Catchable |
| Glennallen | Rainbow Trout | WJHSFH Swanson R. | 15A-0004 | 12/31/2023      | Squirrel Ck. Pit   | 4             | Fingerling Subcatchable Catchable |
| Glennallen | Rainbow Trout | WJHSFH Swanson R. | 14A-0030 | 12/31/2023      | Peanut L., Three Mile L., Two Mile L.  | 5             | Fingerling Subcatchable Catchable |
| Yukon      | Rainbow Trout | WJHSFH Swanson R. | 16A-0004 | 12/31/2023      | Nathaniel L.   | 1             | Fingerling Subcatchable Catchable |
|            |               |                   |          |                 |  |               |                                   |

Table3. Fish Transport Permits (FTP's) for fish releases and egg transports for the Ruth Burnett Sport Fish Hatchery

| Area       | Species     | Stock               | FTP      | Expiration Date | Release Site   | Lake Category | Life Stage                        |
|------------|-------------|---------------------|----------|-----------------|--|---------------|-----------------------------------|
| Delta      | Arctic Char | WJHSFH Aleknagik L. | 13A-0009 | 12/31/2024      | Coal Mine #5   | 1             | Fingerling Subcatchable Catchable |
| Delta      | Arctic Char | WJHSFH Aleknagik L. | 14A-0002 | 12/31/2024      | Backdown L., Brodie L., Dick's Pond, Four Mile L., Ken's Pond, Quartz L., Rangeview L., Shaw Pond, Sheefish L.     | 1             | Fingerling Subcatchable Catchable |
| Delta      | Arctic Char | WJHSFH Aleknagik L. | 14A-0003 | 12/31/2024      | Chet L., Nickel L.   | 2             | Fingerling Subcatchable Catchable |
| Delta      | Arctic Char | WJHSFH Aleknagik L. | 14A-0004 | 12/31/2024      | J L.   | 3             | Fingerling Subcatchable Catchable |
| Fairbanks  | Arctic Char | WJHSFH Aleknagik L. | 14A-0005 | 12/31/2024      | Bathing Beauty Pond, Chena L., Grayling L., Harding L., Hidden L. (EAFB), Kids' Fishing Pond, Moose L., Polaris L. | 1             | Fingerling Subcatchable Catchable |
| Fairbanks  | Arctic Char | WJHSFH Aleknagik L. | 14A-0006 | 12/31/2024      | Birch L., Lost L.  | 3             | Fingerling Subcatchable Catchable |
| Glennallen | Arctic Char | WJHSFH Aleknagik L. | 14A-0007 | 12/31/2024      | Buffalo L., Dick L., Ryan L.   | 1             | Fingerling Subcatchable Catchable |
| Glennallen | Arctic Char | WJHSFH Aleknagik L. | 14A-0008 | 12/31/2024      | Gergie L., John L.   | 2             | Fingerling Subcatchable Catchable |
| Glennallen | Arctic Char | WJHSFH Aleknagik L. | 14A-0009 | 12/31/2024      | Crater L., Tex Smith L.  | 3             | Fingerling Subcatchable Catchable |
| Glennallen | Arctic Char | WJHSFH Aleknagik L. | 14A-0010 | 12/31/2024      | Two Mile L.  | 5             | Fingerling Subcatchable Catchable |

Table3. Fish Transport Permits (FTP's) for fish releases and egg transports for the Ruth Burnett Sport Fish Hatchery

| Area      | Species         | Stock         | FTP      | Expiration Date | Release Site   | Lake Category | Life Stage                              |
|-----------|-----------------|---------------|----------|-----------------|--|---------------|---|
| Delta     | Arctic Grayling | Chena R.      | 10A-0052 | 12/31/2021      | Bolio L., Brodie L., Jan L., Koole, L., Luke L., Mark L., N Twin L., Paul's Pond, Rangeview L., Rich 81, Sheefish L.   | 1             | Fingerling<br>Subcatchable<br>Catchable |
| Delta     | Arctic Grayling | Goodpaster R. | 10A-0067 | 12/31/2021      | Bolio L., Brodie L., Jan L., Koole, L., Luke L., Mark L., N Twin L., Paul's Pond, Rangeview L., Rich 81, Sheefish L.   | 1             | Fingerling<br>Subcatchable<br>Catchable |
| Delta     | Arctic Grayling | Chena R.      | 10A-0053 | 12/31/2021      | Chet L., Nickel L.   | 2             | Fingerling<br>Subcatchable<br>Catchable |
| Delta     | Arctic Grayling | Goodpaster R. | 10A-0068 | 12/31/2021      | Chet L., Nickel L.   | 2             | Fingerling<br>Subcatchable<br>Catchable |
| Delta     | Arctic Grayling | Chena R.      | 10A-0054 | 12/31/2021      | J L.   | 3             | Fingerling<br>Subcatchable<br>Catchable |
| Delta     | Arctic Grayling | Goodpaster R. | 10A-0069 | 12/31/2021      | J L.   | 3             | Fingerling<br>Subcatchable<br>Catchable |
| Delta     | Arctic Grayling | Chena R.      | 10A-0055 | 12/31/2021      | Big D Pond   | 4             | Catchable                               |
| Delta     | Arctic Grayling | Goodpaster R. | 10A-0070 | 12/31/2021      | Big D Pond   | 4             | Catchable                               |
| Fairbanks | Arctic Grayling | Chena R.      | 10A-0058 | 12/31/2021      | Ballaine L., Bathing Beauty, Bear L., CHSR 25.0, CHSR 30.0, Chena L., Dune L., Kid's Fishing Pond, Grayling L., Hidden L, (EAFB), Johnson Pit #2, Long Pond, Monterey L., Moose L., Mullins Pit, North Chena Pond, North Pole Pond, Rich 28, Rich 31, Round Pond, Steese Hwy 34.6, Wainwright #6 | 1             | Fingerling<br>Subcatchable<br>Catchable |

Table3. Fish Transport Permits (FTP's) for fish releases and egg transports for the Ruth Burnett Sport Fish Hatchery

| Area      | Species         | Stock         | FTP      | Expiration Date | Release Site  | Lake Category | Life Stage                              |
|-----------|-----------------|---------------|----------|-----------------|---|---------------|---|
| Fairbanks | Arctic Grayling | Goodpaster R. | 10A-0073 | 12/31/2021      | Ballaine L., Bathing Beauty, Bear L., CHSR 25.0, CHSR 30.0, Chena L., Dune L, Kid's Fishing Pond, Grayling L., Hidden L, (EAFB), Johnson Pit #2, Long Pond, Monterey L., Moose L., Mullins Pit, North Chena Pond, North Pole Pond, Rich 28, Rich 31, Round Pond, Steese Hwy 34.6, Wainwright #6 | 1             | Fingerling<br>Subcatchable<br>Catchable |
| Fairbanks | Arctic Grayling | Chena R.      | 14A-0016 | 12/31/2021      | Cushman L.  | 2             | Fingerling<br>Subcatchable<br>Catchable |
| Fairbanks | Arctic Grayling | Goodpaster R. | 14A-0019 | 12/31/2021      | Cushman L.  | 2             | Fingerling<br>Subcatchable<br>Catchable |
| Fairbanks | Arctic Grayling | Chena R.      | 10A-0060 | 12/31/2021      | Birch L., Lost L.   | 3             | Catchable                               |
| Fairbanks | Arctic Grayling | Goodpaster R. | 10A-0075 | 12/31/2021      | Birch L., Lost L.   | 3             | Catchable                               |
| Fairbanks | Arctic Grayling | Chena R.      | 14A-0017 | 12/31/2021      | Manchu L.   | 3             | Fingerling<br>Subcatchable<br>Catchable |
|           |                 |               |          |                 |   |               |   |
| Fairbanks | Arctic Grayling | Goodpaster R. | 14A-0020 | 12/31/2021      | Manchu L.   | 3             | Fingerling<br>Subcatchable<br>Catchable |
| Fairbanks | Arctic Grayling | Chena R.      | 10A-0061 | 12/31/2021      | CHSR 42.8 (Red Squirrel Pit), CHSR 45.5, CHSR 47.9, Nordale #2, Olnes Pond, Steese Hwy. 29.5, Steese Hwy. 31.6, Steese Hwy. 33.5, Steese Hwy. 35.8, Steese Hwy. 36.6, Z Pit   | 4             | Catchable                               |

Table3. Fish Transport Permits (FTP's) for fish releases and egg transports for the Ruth Burnett Sport Fish Hatchery

| Area       | Species         | Stock         | FTP      | Expiration Date | Release Site  | Lake Category | Life Stage                              |
|------------|-----------------|---------------|----------|-----------------|---|---------------|---|
| Fairbanks  | Arctic Grayling | Goodpaster R. | 10A-0076 | 12/31/2021      | CHSR 42.8 (Red Squirrel Pit), CHSR 45.5, CHSR 47.9, Nordale #2, Olnes Pond, Steese Hwy. 29.5, Steese Hwy. 31.6, Steese Hwy. 33.5, Steese Hwy. 35.8, Steese Hwy. 36.6, Z Pit | 4             | Catchable                               |
| Glennallen | Arctic Grayling | Chena R.      | 10A-0048 | 12/31/2021      | Arizona L., Buffalo L., Connor L., Dick L., Junction L., Little Junction L., Ryan L.  | 1             | Catchable                               |
| Glennallen | Arctic Grayling | Chena R.      | 10A-0048 | 12/31/2021      | Squirrel Ck. Pit  | 4             | Catchable                               |
| Glennallen | Arctic Grayling | Goodpaster R. | 10A-0064 | 12/31/2021      | Arizona L., Buffalo L., Connor L., Dick L., Junction L., Little Junction L., Ryan L.,   | 1             | Catchable                               |
| Glennallen | Arctic Grayling | Goodpaster R. | 10A-0064 | 12/31/2021      | Squirrel Ck. Pit  | 4             | Catchable                               |
| Glennallen | Arctic Grayling | Chena R.      | 10A-0049 | 12/31/2021      | Pippin L., Round L., Tolsona L.   | 2             | Catchable                               |
| Glennallen | Arctic Grayling | Goodpaster R. | 10A-0065 | 12/31/2021      | Pippin L., Round L., Tolsona L.   | 2             | Catchable                               |
| Glennallen | Arctic Grayling | Chena R.      | 14A-0018 | 12/31/2021      | Three Mile L.   | 5             | Fingerling<br>Subcatchable<br>Catchable |
| Glennallen | Arctic Grayling | Goodpaster R. | 14A-0021 | 12/31/2021      | Three Mile L.   | 5             | Fingerling<br>Subcatchable<br>Catchable |
| Delta      | King Salmon     | Salcha R.     | 10A-0035 | 12/31/2019      | Brodie L., Bolio L.   | 1             | Catchable                               |
| Delta      | King Salmon     | Chena R.      | 10A-0031 | 12/31/2019      | Brodie L., Bolio L.   | 1             | Catchable                               |
| Delta      | King Salmon     | Salcha R.     | 13A-0014 | 12/31/2019      | Coal Mine #5, Quartz L.   | 1             | Fingerling<br>Subcatchable<br>Catchable |
| Delta      | King Salmon     | Chena R.      | 13A-0010 | 12/31/2019      | Coal Mine #5, Quartz L.   | 1             | Fingerling<br>Subcatchable<br>Catchable |

Table3. Fish Transport Permits (FTP's) for fish releases and egg transports for the Ruth Burnett Sport Fish Hatchery

| Area       | Species     | Stock            | FTP      | Expiration Date | Release Site   | Lake Category | Life Stage                        |
|------------|-------------|------------------|----------|-----------------|--|---------------|-----------------------------------|
| Delta      | King Salmon | Salcha R.        | 13A-0015 | 12/31/2019      | Jan L.   | 1             | Fingerling Subcatchable           |
| Delta      | King Salmon | Chena R.         | 13A-0011 | 12/31/2019      | Jan L.   | 1             | Fingerling Subcatchable           |
| Fairbanks  | King Salmon | Salcha R.        | 10A-0036 | 12/31/2019      | Bathing Beauty Pond, Chena L., Grayling L., Monterey L., Otto L., Mullins Pit, North Pole Pond, Polaris L. | 1             | Fingerling Subcatchable Catchable |
| Fairbanks  | King Salmon | Chena R.         | 10A-0032 | 12/31/2019      | Bathing Beauty Pond, Chena L., Grayling L., Monterey L., Otto L., Mullins Pit, North Pole Pond, Polaris L. | 1             | Fingerling Subcatchable Catchable |
| Fairbanks  | King Salmon | Salcha R.        | 13A-0016 | 12/31/2019      | Dune L., Geskakmina L., Koole L.   | 1             | Fingerling Subcatchable           |
| Fairbanks  | King Salmon | Chena R.         | 13A-0012 | 12/31/2019      | Dune L., Geskakmina L., Koole L.   | 1             | Fingerling Subcatchable           |
| Fairbanks  | King Salmon | Salcha R.        | 15A-0002 | 12/31/2019      | Cushman L.   | 2             | Fingerling Subcatchable Catchable |
| Fairbanks  | King Salmon | Chena R.         | 15A-0001 | 12/31/2019      | Cushman L.   | 2             | Fingerling Subcatchable Catchable |
| Fairbanks  | King Salmon | Salcha R.        | 10A-0037 | 12/31/2019      | Birch L., Lost L.  | 3             | Catchable                         |
| Fairbanks  | King Salmon | Chena R.         | 10A-0033 | 12/31/2019      | Birch L., Lost L.  | 3             | Catchable                         |
| Glennallen | King Salmon | Salcha R.        | 13A-0017 | 12/31/2019      | South Jans L., Strelna L.  | 1             | Fingerling Subcatchable Catchable |
| Glennallen | King Salmon | Chena R.         | 13A-0013 | 12/31/2019      | South Jans L., Strelna L.  | 1             | Fingerling Subcatchable Catchable |
| Delta      | Coho Salmon | Delta Clearwater | 10A-0040 | 12/31/2027      | Koole L., Jan L., Lisa L., Quartz L.   | 1             | Fingerling Subcatchable           |



Table3. Fish Transport Permits (FTP's) for fish releases and egg transports for the Ruth Burnett Sport Fish Hatchery

| Area       | Species         | Stock               | FTP      | Expiration Date | Release Site  | Lake Category | Life Stage                              |
|------------|-----------------|---------------------|----------|-----------------|---|---------------|---|
|            |                 | R.                  |          |                 |   |               | Catchable                               |
| Delta      | Coho Salmon     | Delta Clearwater R. | 17A-0001 | 12-31-2027      | J L.  | 3             | Fingerling<br>Subcatchable<br>Catchable |
| Fairbanks  | Coho Salmon     | Delta Clearwater R. | 10A-0041 | 12/31/2027      | Dune L., Geskakmina L.                                  | 1             | Fingerling<br>Subcatchable<br>Catchable |
| Fairbanks  | Coho Salmon     | Delta Clearwater R. | 16A-0053 | 12/31/2027      | Harding L.  | 1             | Fingerling                              |
| Glennallen | Coho Salmon     | Delta Clearwater R. | 10A-0042 | 12/31/2027      | South Jans L., Strelna L.                               | 1             | Fingerling<br>Subcatchable<br>Catchable |
| Yukon      | Lake Trout      | Sevenmile L.        | 16A-0006 | 12/31/2020      | Harding L.  | 1             | Fingerling<br>Subcatchable<br>Catchable |
| Fairbanks  | Arctic Char     | WJHSFH Aleknagik L. | 14A-0015 | 12/31/2024      | From WJHSFH to RBSFH                                    |               | Eggs/Fry<br>Fingerling                  |
|            |                 |                     |          |                 |   |               |   |
| Fairbanks  | Arctic Grayling | Chena R.            | 10A-0047 | 12/31/2021      | Egg take at Chena R. and transfer of eggs to RBSFH      |               | Eggs                                    |
| Fairbanks  | Arctic Grayling | Goodpaster R.       | 10A-0063 | 12/31/2021      | Egg take at Goodpaster R. and transfer of eggs to RBSFH |               | Eggs                                    |
| Fairbanks  | King Salmon     | Chena R.            | 10A-0034 | 12/31/2019      | Egg take at Chena R. and transfer of eggs to RBSFH      |               | Eggs                                    |
| Fairbanks  | King Salmon     | Salcha R.           | 10A-0038 | 12/31/2019      | Egg take at Salcha R. and transfer of eggs to RBSFH     |               | Eggs                                    |
| Fairbanks  | King Salmon     | Salcha R.           | 12A-0013 | 12/31/2019      | From WJHSFH to RBSFH                                    |               | Fry                                     |

Table3. Fish Transport Permits (FTP's) for fish releases and egg transports for the Ruth Burnett Sport Fish Hatchery

| Area      | Species       | Stock               | FTP      | Expiration Date | Release Site  | Lake Category | Life Stage             |
|-----------|---------------|---------------------|----------|-----------------|---|---------------|------------------------|
|           |               |                     |          |                 |   |               | Fingerling             |
| Fairbanks | King Salmon   | Chena R.            | 13A-0004 | 12/31/2019      | From WJHSFH to RBSFH  |               | Fry<br>Fingerling      |
| Fairbanks | Coho Salmon   | Delta Clearwater R. | 10A-0043 | 12/31/2027      | Egg take at Delta Clearwater R. and transfer of eggs to RBSFH |               | Eggs                   |
| Fairbanks | Rainbow Trout | Swanson R.          | 13A-0007 | 12/31/2023      | From WJHSFH to RBSFH  |               | Eggs/Fry<br>Fingerling |
| Fairbanks | Lake Trout    | Sevenmile L.        | 16A-0005 | 12/31/2020      | Egg take at Sevenmile L. and transfer of eggs to RBSFH        |               | Eggs                   |

Table 4: Projected 2018 harvest from Division of Sport Fish stocking projects.

| Release Site               | Rainbow Trout | Arctic Char | Arctic Graying | Landlocked Salmon |
|----------------------------|---------------|-------------|----------------|-------------------|
| Lake Stocking <sup>1</sup> | 20,378        | 2,508       | 983            | 7,982             |

<sup>1</sup> Harvest estimates for Arctic char, Arctic grayling, landlocked salmon, and rainbow trout is based on the SWHS estimates for the year 2016 as this year most represents current stocking levels and expected 2018 harvest levels.