

# **HAGERMAN NATIONAL FISH HATCHERY**

**Fiscal Year 2004**

## **Summary of Operations and Expenditures**



## **INTRODUCTION**

The Hagerman National Fish Hatchery (Hatchery) is located along the Snake River, about 30 miles west of Twin Falls, Idaho at a point three miles south and two miles east of Hagerman, Idaho. The Hatchery was authorized by 46 Stat, 371 on May 21, 1930 and was established in 1932. Construction of the physical facilities commenced in 1932, and fish production began in 1933. The primary goal of the Hatchery, at that time, was the production of rainbow trout for stocking in Idaho, eastern Oregon, and northern Nevada.

In the late 1970's the Hatchery became part of the Lower Snake River Compensation Plan (LSRCP) which was authorized by the Water Resources Development Act of 1976, Public Law 94-587. This plan was designed to mitigate for fish and wildlife losses caused by the construction of four dams on the lower Snake River. For its part in the LSRCP program, the Hatchery's primary production goal was changed from resident rainbow trout to steelhead trout.

There are 102 outside raceways at the Hatchery. Of these, 66 are devoted to LSRCP steelhead production and 12 are reserved for other programs which the Fish and Wildlife Service deems appropriate. During Fiscal Year 2004, rainbow trout for the Dworshak Reservoir Mitigation program were reared in these raceways. The remaining 24 raceways are not in use at this time. Other major facilities include two hatchery-rearing buildings with a total of 60 rearing tanks, an administration-visitor facility building, a combination shop/four-stall garage, four residences, an oil/paint storage building, and two general storage buildings.

The Hatchery's water supply is spring-fed at a constant 59 degrees Fahrenheit with a flow rate of approximately 30,000 gallons per minute.

Co-located within the Hatchery grounds is the Hagerman Fish Culture Experiment Station. This research facility is owned and operated by the University of Idaho.

## **STATION OPERATIONS**

The LSRCP established a mitigation goal for the Hatchery program of 13,600 adult steelhead returning above Lower Granite Dam. However, within the framework of the LSRCP, specific objectives and tasks for the Hatchery's steelhead production program are established through a high degree of interagency coordination. Results of this coordination affect certain aspects of the program, such as total number and strain reared, time and size at release, and location of release. The Brood Year (BY) 2003 production goal for the Hatchery was 1,290,000 smolts at a target size of 4.2 fish per pound (180-250 mm).

The Hatchery also produces rainbow trout for the Dworshak Dam Mitigation program as an in-kind exchange with the Idaho Department of Fish and Game (IDFG). Fish reared at the Hatchery are stocked into southern Idaho reservoirs such as Little Camas, C.J. Strike, Lucky Peak, Cascade, Anderson Ranch, American Falls, Oxbow, and Hells Canyon. Fish reared at the

Nampa State Fish Hatchery are stocked into Dworshak Reservoir. The program calls for stocking sub-catchable trout in the spring and catchable trout in the fall.

## **Fish Culture Operations**

Pertinent fish rearing information for all fish species held on station during Fiscal Year (FY) 2004 is presented in Table 1.

### **Steelhead**

#### Brood Year 2003 Steelhead

Three stocks of BY2003 summer steelhead were programmed for the 2004 release year. Since the Hatchery does not have the capability to capture anadromous brood stock on site, eyed eggs are obtained from other spawning and incubation facilities. Table 2. provides the number of eggs received by species and strain during FY2004.

#### Brood Year 2003 Steelhead Distribution

The Hatchery released 1,324,263 steelhead smolts into the upper Salmon River, East Fork Salmon River, Yankee Fork Salmon River, Little Salmon River, and Hazard Creek (all tributaries of the Snake River) in Idaho. Table 3. provides the number of steelhead released by strain and site.

### **Rainbow Trout**

Rainbow trout eggs were obtained from Ennis National Fish Hatchery (Montana), and Hayspur State Fish Hatchery (Idaho) (Table 2.). The hatchery raised three strains of rainbow trout for release in FY2004. Lot 99, brood year 2003 Shasta strain, was released in early October 2003 into Cascade and Lucky Peak Reservoirs. Lot 103, brood year 2004 Hayspur strain triploid rainbow trout, was released in mid May 2004 into the Snake River above American Falls Reservoir. Lot 104, brood year 2004 Hayspur strain triploid rainbow trout, was released in September 2004 to various southern Idaho waters (Table 4.).

## **Fiscal Operations**

### Personnel

During FY2004, Animal Caretaker, Charles Larson, transferred to Jones Hole National Fish Hatchery, Region 6, as a Biological Technician. Nathan Wiese was hired to fill the long-time vacancy of Fisheries Biologist/Trainee. Nate completed his undergraduate degree at the

University of Wisconsin Stevens Point and is a recent graduate of the University of Arkansas-Pine Bluff Masters Program. Table 5. provides a summary of staffing for the Hatchery during FY2004.

### Training

Table 6. provides a summary of training received by the Hatchery employees during FY2004.

### Cost Data

Table 7a. 7b & 7c. present a description of expenditures for the FY2004.

## **Other Items of Interest**

### Student Career Employment Program (SCEP)

There were no SCEP students available for assignment to the Hatchery during FY2004.

### College of Southern Idaho Cooperative Internship Agreement

During 2004, the Hatchery continued operation of its long standing Cooperative Agreement with the College of Southern Idaho (CSI), Twin Falls, Idaho and the Idaho Aquaculture Association.

Mr. Kenyon Roark, an undergraduate student enrolled in the Fisheries Technology program at CSI, worked from January 17 to July 12, 2004. The Hatchery established the Cooperative Agreement in 1994. It is designed to provide students an opportunity to gain conservation hatchery experience while completing coursework. The Hatchery will renew the cooperative agreement in FY05 for another five years.

### Aquatic Nuisance Species – Hazard Analysis and Critical Control Point Plan (HACCP)

During FY2004, the Hatchery marked its second year operating under an ANS-HACCP Plan (Plan) following the discovery of New Zealand Mud Snails (NZMS) *Potamopyrgus antipodarum*, in several of the Hatchery springs (Figure 1). The Plan addresses the rearing of both steelhead and rainbow trout. Although an effective tool for managing Hatchery operations, it became apparent the Plan was not a foolproof method to control the spread of the NZMS. Moreover, Service policy requires that its programs not conduct activities that would contribute to the spread of invasive organisms. Of particular concern was the threat of spreading the snail via the Hatchery's fish distribution program to waters it does not yet inhabit. In order to address this issue, meet Service policy, and allow the Hatchery to continue its Federally mandated fish mitigation requirements, the Pacific Region Aquatic Invasive Species Coordinator, the Idaho Fisheries Resource Office, the LSRCP Office, and Hatchery staff, developed a NZMS Risk Assessment. This document establishes risk management recommendations which the Hatchery uses to make stocking decisions. As a result of the NZMS Risk Assessment, the Hatchery discontinued releasing fish into the Clearwater Drainage in 2004. The document will be

updated as more information is developed regarding the biology and control of the snail.

In an effort to develop more information on the NZMS and an eventual solution for its control, the U.S. Geological Survey Science Support Program awarded a grant to Dr. Christine Moffitt, University of Idaho, to study the NZMS. During the next several years the Hatchery will be working closely with Dr. Moffitt in support of her research.

### Fish Health

Periodic sampling by Idaho Fish Health Center pathologists did not detect any epizootics in any fish stocks held on station during fiscal year 2004. In an effort to maintain good fish health, the Hatchery has initiated a number of standard procedures towards this end. They include maintaining fish loading within established carrying capacity indexes, reducing fish handling, and feeding a double vitamin boost package during early rearing.

### Oster Lake Fire Burned Area Emergency Rehabilitation (BAER) Plan

FY2004 marked the completion of the BAER Plan. Initial monitoring of the revegetation showed modest success. Of the original \$204,936 allocated, the program expended \$165,474.73, realizing a savings of \$39,461.27. For more information, contact: Manager, Hagerman National Fish Hatchery.

### Bliss Rapids Snail *Taylorconcha serpenticola*

Mr. Dave Hopper, Biologist with the Boise Ecological Services Field Office (BES), confirmed the presence of the Bliss Rapids snail in several of the Hatchery springs (Figure1). Hatchery staff, with the aide of the LSRCP Office, initiated Section 7 consultation with BES. Work is underway to develop a management plan that will accommodate Hatchery operations and afford protection for the snail.

### Outreach

Community and Partner outreach continues to be an important focus for the Hatchery. As in past years, Hatchery staff provided numerous public tours, participated in the "Hagerman Fossil Days" parade, and co-hosted a Free Fishing Day event with the Hagerman State Fish Hatchery operated by the IDFG. The Hatchery also operated its Hatchery Host Program.

During 2004 the Hatchery partnered with the Buhl School Foundation to sponsor the "Natural Heritage Youth Program". As part of the program, Hatchery staff assisted with a number of classroom presentations at local schools. The Hatchery also partnered with the Hagerman Fish Culture Experiment Station, University of Idaho, to make several presentations at their "Tribal Aquaculture Short Course", and scheduled several "job shadow" opportunities at the Hatchery for participating students.

Other outreach activities included: a presentation at a monthly luncheon sponsored by the Buhl

Idaho Kiwanis International; partnering with the Hagerman Fossil Beds Monument, National Park Service to staff a booth at the Twin Falls County Fair; and representation at the annual Idaho Governor's Conference in assistance to Region 1 Contracting and General Services Division.

The Hatchery also worked with the Region 1, Refuge Roads Coordinator, to implement a Cooperative Agreement with the Southern Idaho Tourism and Recreation Development Association, Inc (a local non-profit organization) The agreement is focused to amend the Thousand Springs Scenic By-Way Corridor Management Plan (CMP) to add the newly formed Billingsly Creek State Park to the CMP and include the concept of developing a shared visitor center at the park. Service participation in the visitor center would increase visitor contact for the Hatchery and the Service in general.

The "Friends of the Pacific Northwest Fish Hatcheries" accepted the Hatchery into its membership. This non-profit organization, based in Leavenworth, Washington, promotes activities and information exchange relevant to Service fish hatchery programs.

# Hagerman National Fish Hatchery

**Table 1. Hatchery Production Summary as of September 30, 2004**

Station: Hagerman National Fish Hatchery					PERIOD COVERED: October 1, 2003 THRU September 30, 2004					
Species/Strain & Lot Number	Fish on Hand:				To Date Totals:					
	Number	Weight	Length	D.I.	F.I.	Weight Gain	Feed	Feed	Conversion	Percent Survival
							Pounds	Costs		
RBT-SSD-03-ENN-99						1,862	1,998	\$528.47	1.07	88.20
SST-CRW-03-ID-100						39,276	44,276	\$11,354.05	1.13	79.51
SST-PAW-03-ID-101						45,743	46,256	\$11,388.05	1.01	95.39
SST-SAW-03-ID-102						188,111	193,677	\$47,532.39	1.03	96.76
RBT-KT-04-ID-103						8,080	6,908	\$2,823.81	0.85	93.95
RBT-R9T-04-ID-104						13,575	13,418	\$3,847.25	0.99	97.49
SST-PAW-04-ID-105	198,687	6,631	4.480	0.04	0.13	6,557	5,692	\$2,511.70	0.87	99.82
SST-SAW-04-ID-106	893,107	23,503	4.143	0.08	0.19	23,476	17,955	\$7,959.33	0.76	97.66
SST-CRW-04-ID-107	205,830	4,691	3.949	0.08	0.14	4,604	4,207	\$1,977.82	0.91	98.37
<b>Total/Averages</b>	<b>1,297,624</b>	<b>34,825</b>	<b>XXXX</b>	<b>XXXX</b>	<b>XXXX</b>	<b>331,284</b>	<b>334,387</b>	<b>\$89,922.87</b>	<b>1.01</b>	<b>94.13</b>

# Hagerman National Fish Hatchery

**Table 2. Eyed eggs received at Hagerman NFH during Fiscal Year 2004**

<b>Species</b>	<b>Stock</b>	<b>Lot No.</b>	<b>No. Eggs</b>	<b>% Survival to Hatch</b>
Rainbow Trout	Hayspur Kamloop Triploid	RBT-KT-04-ID (Lot 103)	129,104	94.55%
Rainbow Trout	Hayspur R9 Triploid	RBT-R9T-04-ID (Lot 104)	76,569	98.27%
<b>Total</b>			205,673	
Steelhead	Pahsimeroi1	SST-PAW-04-ID (Lot105)	204,822	97.88%
Steelhead	Sawtooth2	SST-SAW-04-ID (Lot 106)	946,363	97.66%
Steelhead	Clearwater3	SST-CRW-04-ID (Lot 107)	214,767	98.13%
<b>Total</b>			1,365,952	

1. Spawned at Pahsimeroi Fish Hatchery and incubated at Sawtooth Fish Hatchery.
2. Spawned and incubated at Sawtooth Fish Hatchery.
3. Spawned at Dworshak NFH and incubated at Clearwater Fish Hatchery.
4. Rainbow trout Lot 99 (not included in table) eggs were received in fiscal year 2003, fish distributed in fiscal year 2004, see table 4

# Hagerman National Fish Hatchery

## Steelhead Distribution During Fiscal Year 2004

Table 3.

Lot / Strain	Type of release	River/Site	Weight (lbs)	Number	#/lb	Length	Date(s)
<b><u>102 SST-SAW-03-ID</u></b>							
-		<u>Salmon River</u>				<u>in</u>	<u>mm</u>
Sawtooth	Direct	Sawtooth Fish Hatchery Weir	174,940	756,607	4.32	8.549	217.16
Sawtooth	Direct	Yankee Fork	28,615	138,664	4.85	8.231	209.08
		<u>Lemhi River</u>				<u>in</u>	<u>mm</u>
Sawtooth	Direct	Lower Lemhi River	3,150	13,330	4.23	8.612	218.74
		<u>Little Salmon River</u>				<u>in</u>	<u>mm</u>
-		Little Salmon River @ Stinky Springs					
Pahsimeroi	Direct	Little Salmon River @ Stinky Springs	41,885	177,094	4.23	8.614	218.80
Pahsimeroi	Direct	Lower Hazard Creek	9,802	42,001	4.28	8.576	217.83
		<u>Little Salmon River</u>				<u>in</u>	<u>mm</u>
-		Little Salmon River @ Stinky Springs					
Clearwater	Direct	Little Salmon River @ Stinky Springs	21,975	100,494	4.57	8.392	213.16
		<u>East Fork Salmon River</u>				<u>in</u>	<u>mm</u>
Clearwater	Direct	Lower East Fork	22,255	96,073	4.32	8.555	217.29
<b>Total</b>			302,622	1,324,263			

# Hagerman National Fish Hatchery

**Table 4. Rainbow Trout Distribution During Fiscal Year 2004**

<b>Lot / Strain</b>	<b>Reservoir</b>	<b>Site</b>	<b>Weight (lbs)</b>	<b>Number</b>	<b>Length (in)</b>	<b>Date(s)</b>
<b>Lot 99 *</b> <b>RBT-SSD-03-ENN</b>	Lucky Peak Reservoir	Spring Shores boat ramp	4,565	14,928	9.144	10/14/03
	Lucky Peak Reservoir	Spring Shores boat ramp	1,725	5,640	9.144	10/15/03
	Cascade Reservoir	Town Boat Ramp	2,535	8,289	9.144	10/15/03
	Cascade Reservoir	Town Boat Ramp	4,965	16,236	9.144	10/16/03
		Sub Total	13,790	45,093		
<b>Lot 103</b> <b>RBT-T9-04-ID</b>	Snake River	Tilden Bridge	2,495	36,003	5.575	5/17/04
	Snake River	Shelley	3,150	42,310	5.710	5/18/04
	Snake River	Blackfoot	2,635	36,368	5.658	5/19/04
		Sub Total	8,280	114,681		
<b>Lot 104</b> <b>RBT-T9-04-ID</b>	Snake River	Tilden Bridge	710	27,519	4.010	5/17/04
	Snake River	Bell Rapids	3,035	10,419	8.997	9/20/04
	Salmon Falls Creek Res.	Dam	4,290	14,867	8.969	9/21/04
	Lower Deep Creek Res.	Boat ramp	3,650	11,837	9.169	9/22/04
	Arrowrock Res.	Boat ramp	2,600	8,060	9.308	9/22/04
		SubTotal	14,285	72,702		
		<b>Total</b>	<b>36,355</b>	<b>232,476</b>		

\* Lot 99 rainbow trout eggs were recieved in fiscal year 2003, distribution took place in fiscal year 2004

## Hagerman National Fish Hatchery

**Table 5. Report of Station Personnel During Fiscal Year 2004.**

<b>Part I - Permanent Personnel (FTE's: 8.56 )</b>				
<b>Name of Employee</b>	<b>Functional Title</b>	<b>Grade</b>	<b>Period Worked</b>	<b>Remarks</b>
Bryan Kenworthy	Project Leader Fisheries Biologist(Supervisor)	GS0482/12/08	10/01/2003 - 09/30/2004	
Kurtis E. Schilling	Asst. Hatchery Manager Fisheries Biologist (Supervisor)	GS0482/11/01	10/01/2003 - 09/30/2004	
Robert James Brandon	Animal Caretaker	WG5048/05/02	10/01/2003 - 09/30/2004	
Brian P. Clifford	Motor Vehicle Operator	WG5703/08/05	10/01/2003 - 09/30/2004	
Charles Larson	Animal Caretaker	WG5048/05/02	10/01/2003 – 02/07/2004	Transfer to Jones Hole, R6 90days
Stephen W. Money	Maintenance Mechanic	WG4749/10/05	10/01/2003 - 09/30/2004	
Mark A. Olson	Fisheries Biologist	GS0482/07/01	10/01/2003 - 09/30/2004	
Anna M. Ray	Fisheries Program Assistant	GS0303/06/03	10/01/2003 - 09/30/2004	
Nathaniel J. Wiese	Fisheries Biologist / Trainee	GS0482/07/01	07/11/2004 – 09/30/2004	New to Service / 55days
Eric W. Willet	Motor Vehicle Operator	WG5703/06/05	10/01/2003 - 09/30/2004	
<b>Part II - Temporary Personnel (FTE's: 0.0 )</b>				

# Hagerman National Fish Hatchery

**Table 6. Personnel Training during Fiscal Year 2004**

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<b>R. James Brandon</b>	Coldwater Fish Culture – October, 2003 ATV Safety Training – November, 2003 FIT Test / Respirator Training – February, 2004 Mandatory IT Security Awareness Training – March, 2004 Mandatory Integrated Charge Card Program – May, 2004 ATV Operator Training – June, 2004 Team Building – June, 2004 Microsoft Excel – July, 2004
<b>Brian Clifford</b>	ATV Safety Training – November, 2003 FIT Test / Respirator Training – February, 2004 Mandatory IT Security Awareness Training – March, 2004 Mandatory Integrated Charge Card Program – May, 2004 ManLift Safety Training – May, 2004 ATV Operator Training – June, 2004 Team Building – June, 2004 Microsoft Excel – July, 2004
<b>Bryan Kenworthy</b>	Walk-A-Mile in my Boots – October, 2003 ATV Safety Training – November, 2003 EEO Training for FY2004 – January, 2004 IDEAS-PD training w/NPS – March, 2004 Mandatory IT Security Awareness Training – March, 2004 Administration Training – April, 2004 Mandatory Integrated Charge Card Program & Approving Official – May, 2004 Team Building – June, 2004
<b>Charles Larson</b>	Introduction to Welding – March, 2003 ATV Safety Training – November, 2003 FIT Test / Respirator Training – February, 2004
<b>Stephen Money</b>	ATV Safety Training – November, 2003 FIT Test / Respirator Training – February, 2004 Mandatory IT Security Awareness Training – March, 2004 Mandatory Integrated Charge Card Program – May, 2004 ATV Operator Training – June, 2004 Team Building – June, 2004 ManLift Safety Training – May, 2004

**Table 6. Personnel Training during Fiscal Year 2004 (continued)**

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<b>Mark A. Olson</b>	New Employee Orientation – October, 2003 Word 2002 / Level 1 – November, 2003 ATV Safety Training – November, 2003 FIT Test / Respirator Training – February, 2004 USFWS Employee Foundations – March, 2004 Mandatory IT Security Awareness Training – March, 2004 Mandatory Integrated Charge Card Program – May, 2004 ATV Operator Training – June, 2004 Team Building – June, 2004 Microsoft Excel – July, 2004 Forklift Certification – September, 2004
<b>Anna M. Ray</b>	IDEAS-PD #2 – November, 2003 Internet Developers National FWS Workshop – December, 2003 IDEAS-PD training w/NPS – March, 2004 Mandatory IT Security Awareness Training – March, 2004 Administration Training – April, 2004 Mandatory Integrated Charge Card Program, AOPC, & Convenience Check – May, 2004 Simplified Acquisition Refresher Correspondence Course (Warrant) – June, 2004 Team Building – June, 2004 GPO Simplified Purchase Agreements (SPA) – August, 2004
<b>Kurtis Schilling</b>	IDEAS-PD training w/NPS – March, 2004 ATV Safety Training – November, 2003 EEO Training for FY2004 – January, 2004 FIT Test / Respirator Training – February, 2004 Administration Training – April, 2004 Mandatory Integrated Charge Card Program & Approving Official – May, 2004 Team Building – June, 2004
<b>Wiese, Nathaniel</b>	Federal IT Systems Security Awareness Training for FY2004 – July, 2004 Employee Ethics Training – July, 2004 Forklift Certification – September, 2004 Internet Home-Page Development for F&W Information (NCTC) – September, 2004
<b>Eric Willet</b>	ATV Safety Training – November, 2003 FIT Test / Respirator Training – February, 2004 Mandatory IT Security Awareness Training – March, 2004 Mandatory Integrated Charge Card Program – May, 2004 ATV Operator Training – June, 2004 2004 Maintenance Workshop for FWS WG Professionals – June, 2004 Team Building – June, 2004 Microsoft Excel – July, 2004

**Hagerman National Fish Hatchery**  
**14230**  
**Operation and Maintenance Data For Fiscal Year 2004**

**Table 7a.**

OFT 1936-0300:	OFT	EXPENSES	Sub-total	Balance
-				
<b>Operations:</b>	<b>\$822,902</b>			
Salaries, OT, Awards, Benefits		\$506,388		
Travel/Tuition		\$14,634		
Utilities		\$14,070		
Steelhead Fish Food		\$67,494		
All Distribution		\$35,213		
Production Expense		\$24,955		
Repairs & Maintenance		\$45,777		
Fuels & Oils		\$6,066		
Office Admin/Misc. Services		\$30,937		
CSI Coop. Agreement & Other USFWS Employees		\$4,930		
Outreach		\$917		
Engineering Services		\$3,905		
<i>Total Operation Expenses:</i>		-		
<i>Sub-Total moved to Non-Recurring Maint. &amp; Cap. Equip:</i>			\$67,616	
* * * * *				
<b>Non-Recurring Maint. &amp; Cap. Equipment:</b>	<b>\$123,000</b>			
Skyland Equipment - Gator utility vehicle #14230-4-M155		\$9,028		
Quality First Asphalt - slurry seal #10181-4-M644		\$5,000		
Hayes Construction - Hatch#1 raingutter #10181-4-M359		\$9,787		
Holley Construction - Chainlink fences #10181-4-M329		\$5,508		
Kralman Steel - 2 brock feed bins #10181-4-M344		\$21,060		
* Wickham Pipeline - Pipeline & Spring Repair #10181-4-C015		\$85,219		
Wickham Pipeline - Outdoor Stair Rebuild #10181-4-M555		\$7,267		
Reyco - Cornell Pump #14230-4-M138		\$6,094		
DESSCO - 6 Transport Generators #10181-4-V039		\$28,805		
* Thomas/Wright, Inc - Scope bird netting #10181-4-D016		\$8,875		
<i>Total Non-Recurring Maint. &amp; Cap. Equipment:</i>		-		
<i>Sub-Total:</i>			(\$63,643)	
<b>Year-End Balance = 99.58% expenditure:</b>	<b>\$945,902</b>		<b>(\$941,929)</b>	<b>\$3,973</b>

\* Open & Pending Contracts SEE TABLE 7c

## Hagerman National Fish Hatchery Other Funding Sources

**Table 7b.**

	+	-	Balance	Comments
<b>Dworshak Mitigation RBT 14230-1935-0001:</b>	<b>\$20,000.00</b>			
Fish Food		( <u>\$20,000.00</u> )	-	OFT distributed June 08, 2004
<b>Total:</b>			\$0.00	
<b>Quarters Funding 14230-8610-0000:</b>				
FY2003-Prior Year Carryover		(\$4,386.81)		
Collections	<b>\$16,670.16</b>			
Overhead deductions @ 21%		(\$3,500.73)		
Expenditures		(\$2,745.17)		
<b>FY2004- Carry forward:</b>			\$6,037.45	
<b>WUI 14230-9264-A999:</b>	<b>\$2,729.00</b>			
Fuels Reduction on North Fence Boundary		(\$2,729.00)		
<b>Total:</b>			\$0.00	
<b>RFA 14230-9265-0000:</b>	<b>\$2,500.00</b>			
Hagerman Rural Fire Department - #14230-4-G093		( <u>\$2,500.00</u> )		
<b>Total:</b>			\$0.00	
<b>* Outreach - 10139-8555-14RO:</b>	<b>\$7,585.00</b>			
SCITRDA #14230-4-G175		\$0.00		Multiple Year Cooperative Agreement
<b>Total Grant:</b>			\$7,585.00	
<b>BAER Fire Rehabilitation 14230-9262-1996:</b>	<b>\$5,944.00</b>			
FY2003-Prior Year Carryover				
FY02-Remaining balance of 3-yr plan money adj. to only W.W.Patton contract				
W.Wayne Patton - Implementation Leader & Monitoring		(\$5,944.00)	\$0.00	All Funding closed
<b>TOTAL of OTHER FUNDING:</b>	<b>\$53,428.16</b>	<b>(<u>\$41,805.71</u>)</b>		

\* Open & Pending Contracts SEE TABLE 7c.

# Hagerman National Fish

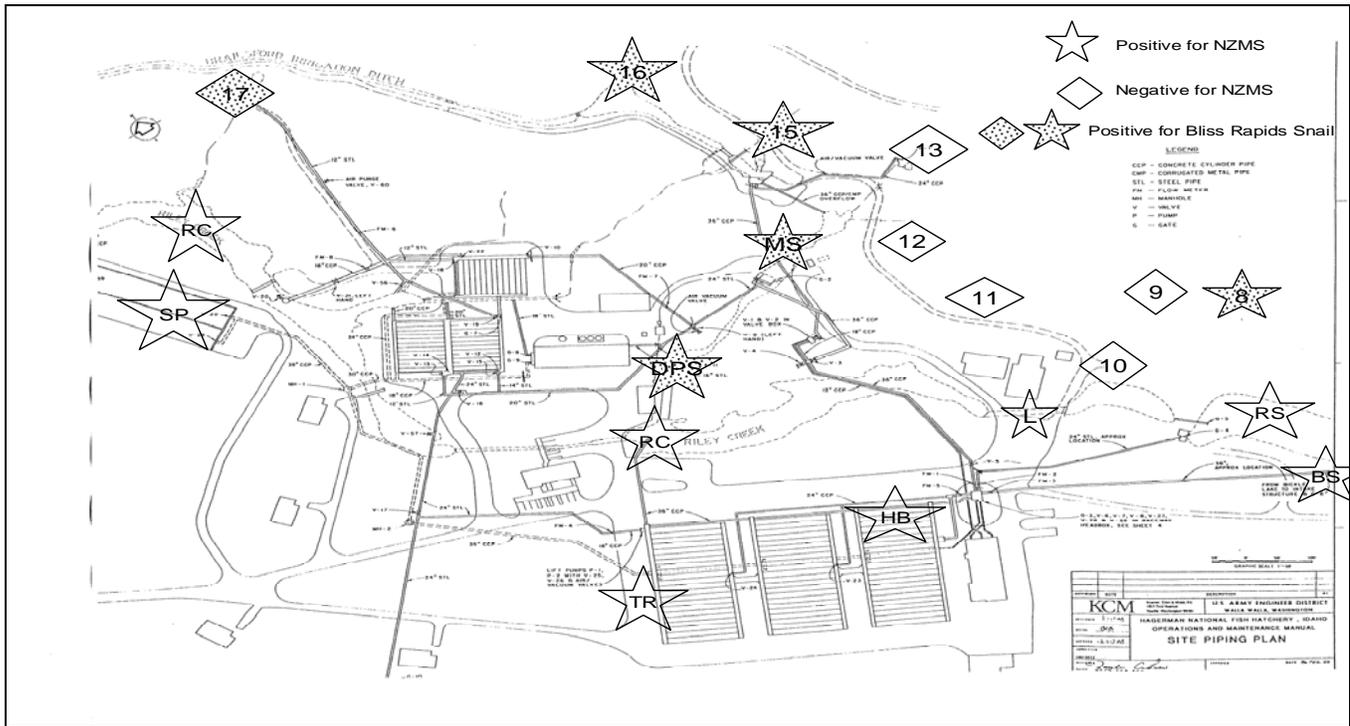
## Hatchery

### Open and Pending Contracts

**Table 7c.**

	+	-	Balance	
<b>Brockway Engineering - #10181-3-M536A</b>	<b>\$39,532.00</b>			FY2003 Funding
Engineering Services charged to 14230-1936-0300		<u>(\$22,811.95)</u>	-	
<b>Total:</b>			\$16,720.05	
<b>GeoEngineers, Inc. - #10181-4-Y065</b>	<b>\$1,700.00</b>			
Cost Analysis to Demolish Old Hatch#1 charged to 10190-2809-E104		<u>\$0.00</u>		
<b>Total:</b>			\$1,700.00	
<b>Thomas/Wright, Inc. - #10181-4-D016</b>	<b>\$2,000.00</b>			
Bird Net Scoping charged to 1936-0300		<u>(\$2,000.00)</u>		
Modification to Design Bird Net charged to 1936-0300	<b>\$6,875.00</b>			
<b>Total:</b>			\$6,875.00	
<b>Wickham Pipeline Construction - #10181-4-C015</b>	<b>\$85,218.70</b>			
Pipeline & Spring Work		<u>\$0.00</u>		
<b>Total:</b>			\$85,218.70	
<b>TOTAL of OTHER FUNDING:</b>	<b>\$135,325.70</b>	<u>(\$24,811.95)</u>	\$110,513.75	

Figure 1. Hagerman National Fish Hatchery Site Plan



Positive New Zealand Mud Snail Sites:

- 8 Spring 8
- 15 Spring 15
- 16 Len Lewis/Spring 16
- RC Riley Creek at Tailrace of Display Pond
- RS Riley Lake/Spring
- BS Bickel Lake/Spring (Not pictured in above drawing)
- SP Off Line Sedimentation Ponds
- RC Riley Creek Below Hatchery(receiving waters)
- HB Headbox of upper deck of Steelhead raceways
- TR Tailrace of lower deck of Steelhead raceways
- L HFCES raceway discharge

Negative New Zealand Mud Snail Sites:

- 9 Spring 9
- 10 Spring 10
- 11 Spring 11
- 12 Spring 12
- 13 Spring 13
- 17 Spring 17

Positive Bliss Rapids snail sites:

Spring 8 (8), Display Pond Supply (DPS), Mainspring Pool (MS), Spring 17 (17), Spring 16 (16), and Spring 15 (15).