

State of Utah

GARY R. HERBERT Governor

SPENCER J. COX Lieutenant Governor

Department of Agriculture and Food

LUANN ADAMS
Commissioner

SCOTT ERICKSEN Deputy Commissioner

CODY JAMES

Director of Animal Industry Division

BARRY PITTMAN, DVM

State Veterinarian

14 December 2017

Neal Barker, Owner Cold Springs Trout Farm 2284 N. Fruitland Dr. N. Ogden, Utah 84414

Subject: Cold Springs Trout Farm fish health approval (Log No. 17-420)

Dear Neal,

You requested the Utah Department of Agriculture and Food (UDAF) collect tissue samples from Cold Springs Trout Farm on 13-14 November 2017 and ship them to Washington Animal Disease Diagnostic Lab (WADDL) for health certification. I received fish health inspection report from WADDL and have assigned fish health approval number FHA174201117UT to Cold Springs Trout Farm. This number is valid for the sale of diploid and sterile rainbow, brown and brook trout, and tiger trout through 14 January 2018. Laboratory test results are attached.

Blood samples were also collected from rainbow trout, brook trout and brown on 8 August 2017 and sent to the University of Washington Pathology Lab to verify triploidy. Cold Spring Trout Farm achieved 100% sterility for lot # 1tripbrn2016 of brown trout; 100% sterility for lot # 1tripbk2016 of brook trout and 96% for lot 1triprbt2016 of rainbow trout. Laboratory results are attached.

An aquatic invasive species (AIS) inspection was conducted at Cold Spring Trout Farm on November 14, 2017. No New Zealand Mudsnails, Quagga Mussels or Zebra Mussels were found on the premises.

Thank you for your valuable assistance with the licensing process.

Please call (801) 538-7046 if you have any questions or if I can be of further assistance.

Best regards,

Anna Marie Forest, Manager

Fish Health Program

Utah Department of Agriculture and Food

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Laboratory Results Report

WADDL Number 2017-14808

Fish source				Address or location of fish source												
Anna Forest			Cold Springs Trout Farm													
Utah Department of Agriculture & Food			2284 North Fruitland Drive													
				No	orth	Og	der	ı, U	T 8	344	14					
Fish sampled Sample Date			Pa	thog	ens	dete	ecte	d pro	oper	ties	cons	siste	nt w	ith ¹		
		14 Nov 201														
Species		Age	Sample size ^{2,3,4,5,6}	E H	l H	I P	0 M	S	V H	I S	AS	Y E	R E	C M	M Y	L M
				N	N	N	٧	С		А	L	R	N		Х	B V
Oncorhynchus mykiss	Lot 8	0-3 mos.	60 k/v/ms/wf	2	-	-	-	-	_							
Salvelinus fontinalis	Lot 1	2-4 yrs.	60 ov	-	-	-	-		-							
Salmo trutta	Lot 2	2-4 yrs.	60 ov	2	-	<u></u>	-	-	**							
Oncorhynchus mykiss	Lot 3	2-4 yrs.	60 ov	-	-	-	-	-	-							

¹EHN - Epizootic Hematopoietic Necrosis Virus

IHN - Infectious Hematopoietic Necrosis Virus

IPN - Infectious Pancreatic Necrosis Virus

OMV - Oncorhynchus masou virus

SVC - Spring Viremia of Carp

VHS - Viral Hemorrhagic Septicemia Virus

ISA - Infectious Salmon Anemia Virus

²c = culture media

³k/v/ms/wf = kidney/viscera/mid-section/whole fish

4h = heads

⁵wf = whole fish

⁶ov = ovarian fluid

ASL - Aeromonas salmonicida

YER - Yersinia ruckeri

REN - Renibacterium salmoninarum

CMS - Ceratomyxa shasta

MYX - Myxobolus cerebralis

PRS - Piscirickettsia salmonis

LMBV - Largemouth Bass Virus

* See summary

+ Agent detected, properties consistent with

- Agent not detected

O No test performed

Laboratory findings summary:

Utah Dept. of Ag. Log No. 17-396,

No significant pathogens were detected.

Fish at the above facility were inspected in accordance with procedures outlined in the USFWS and AFS-FHS, Standard Procedures for Aquatic Animal Health Inspections. In: Suggested Procedures for the Detection and Identification of Certain Finfish and Shellfish Pathogens. Blue Book 2016 Edition, Fish Health Section, AFS.

Laboratory official's signature

Jim B. Thompson, AFS Fish Health Inspector #106

Date 14 December 2017

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Laboratory Results Report

WADDL Number 2017-14725

Fish source				Address or location of fish source												
Anna Forest					Cold Springs Trout Farm											
Utah Department of Agriculture & Food			2284 North Fruitland Drive													
				No	orth	Og	der	1, U	T 8	344	14					
Fish sampled		Sample Date	9	Pa	thog	ens	dete	ecte	d pro	oper	ties	cons	siste	nt w	rith ¹	
·		13 Nov 2017	,													
Species		Age	Sample	Е	Т	Τ	0	S	٧	1	Α	Υ	R	С	М	L
'			size ^{2,3,4,5,6}	Н	H	Р		V	Н	S		E	E N	M	Υ	M
				N	N	N	٧	С	S	Α	L	R	N	S	Х	В
				×												V
Salvelinus fontinalis	Lot 4	10 mos.	60 k/s	-	-	-	-	-	-							
			60 k										-			
Salmo trutta	Lot 5	10 mos.	60 k/s	-	-	-	-	- :	-							
Oncorhynchus mykiss	Lot 6	10 mos	60 k/s	-	-	ı	-	-	-							
			60 c								-	-				
			60 h													
S. trutta X S. fontinalis	Lot 7	10 mos.	60 k/s	- 2	-	(c	-	-	-							

¹EHN - Epizootic Hematopoietic Necrosis Virus IHN - Infectious Hematopoietic Necrosis Virus IPN - Infectious Pancreatic Necrosis Virus OMV - *Oncorhynchus masou* virus SVC - Spring Viremia of Carp

VHS - Viral Hemorrhagic Septicemia Virus ISA - Infectious Salmon Anemia Virus

²c = culture media
 ³k/s = kidney/spleen
 ⁴h = heads
 ⁵wf = whole fish

⁶ov = ovarian fluid

ASL - Aeromonas salmonicida

YER - Yersinia ruckeri

REN - Renibacterium salmoninarum

CMS - Ceratomyxa shasta MYX - Myxobolus cerebralis PRS - Piscirickettsia salmonis LMBV - Largemouth Bass Virus

* See summary

+ Agent detected, properties consistent with

Agent not detected
 O No test performed

Laboratory findings summary:

Utah Dept. of Ag. Log No. 17-396.

No significant pathogens were detected.

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Laboratory official's signature

Jim B. Thompson, AFS Fish Health Inspector #106

Date 13 December 2017

P.O. Box 647034 Pullman, WA 99164-7034 Telephone: (509) 335-9696 Fax: (509) 335-7424

Dr. Anna Forest Utah State Dept of Agri Box 146500 350 N Redwood Rd. Fl 3 Salt Lake City, UT 84116

Submittal Date: 11/15/17
Owner: Cold Springs Trout Farm

Species: Other: Fish Age: Sex:

Final Report:

Aquaculture- Reported on 12/14/17 Authorized by Kevin Snekvik, Section Head

Aquatic viral culture SOP: 905.2016.11.09

Animal	Specimen	Result	Isolate
1-Lot 8 RBT 5F k/v/ms/wf	Tissue Pool	Negative	
2	Tissue Pool	Negative	
3	Tissue Pool	Negative	
4	Tissue Pool	Negative	
5	Tissue Pool	Negative	
6	Tissue Pool	Negative	
7	Tissue Pool	Negative	
8	Tissue Pool	Negative	
9	Tissue Pool	Negative	
10	Tissue Pool	Negative	
11	Tissue Pool	Negative	
12	Tissue Pool	Negative	
13-Lot 1 BKT 5F Ovarian Fluids	Fluid-Ovary	Negative	
14	Fluid-Ovary	Negative	
15	Fluid-Ovary	Negative	
16	Fluid-Ovary	Negative	
17	Fluid-Ovary	Negative	
18	Fluid-Ovary	Negative	
19	Fluid-Ovary	Negative	
20	Fluid-Ovary	Negative	
21	Fluid-Ovary	Negative	
22	Fluid-Ovary	Negative	
23	Fluid-Ovary	Negative	
24	Fluid-Ovary	Negative	
25-Lot 2 BNT 5F Ovarian Fluids	Fluid-Ovary	Negative	
26	Fluid-Ovary	Negative	
27	Fluid-Ovary	Negative	
28	Fluid-Ovary	Negative	

Case#: 2017-14808 Report Date: 12/14/17

Aquatic viral culture SOP: 905.2016.11.09

Animal	Specimen	Result	Isolate
29	Fluid-Ovary	Negative	
30	Fluid-Ovary	Negative	
31	Fluid-Ovary	Negative	
32	Fluid-Ovary	Negative	
33	Fluid-Ovary	Negative	
34	Fluid-Ovary	Negative	
35	Fluid-Ovary	Negative	
36	Fluid-Ovary	Negative	
37-Lot 3 RBT 5F Ovarian Fluids	Fluid-Ovary	Negative	
38	Fluid-Ovary	Negative	
39	Fluid-Ovary	Negative	
40	Fluid-Ovary	Negative	
41	Fluid-Ovary	Negative	
42	Fluid-Ovary	Negative	
43	Fluid-Ovary	Negative	
44	Fluid-Ovary	Negative	
45	Fluid-Ovary	Negative	
46	Fluid-Ovary	Negative	
47	Fluid-Ovary	Negative	
48	Fluid-Ovary	Negative	

Aquatic viral culture test comment: All samples submitted on this case were negative for Oncorhynchus Masou Virus, Infectious Pancreatic Necrosis Virus, Infectious Hematopoietic Necrosis Virus, Viral Hemorrhagic Septicemia Virus, Epizootic Hematopoietic Necrosis Virus, and Spring Viremia of Carp on CHSE-214 & EPC cell lines.

P.O. Box 647034 Pullman, WA 99164-7034 Telephone: (509) 335-9696 Fax: (509) 335-7424

Dr. Anna Forest Utah State Dept of Agri Box 146500 350 N Redwood Rd. Fl 3 Salt Lake City, UT 84116 Case#: 2017-14725 Report Date: 12/13/17

Submittal Date: 11/14/17 Owner: Cold Springs Trout Farm Species:

Age:

Other: Fish

Sex:

Final Report:

Aquaculture- Reported on 12/13/17 Authorized by Kevin Snekvik, Section Head

Aquatic viral culture SOP: 905.2016.11.09

Animal	Specimen	Result	Isolate
1-Lot 4 BKT 5F k/s	Tissue Pool	Negative	
2	Tissue Pool	Negative	
3	Tissue Pool	Negative	
4	Tissue Pool	Negative	
5	Tissue Pool	Negative	
6	Tissue Pool	Negative	
7	Tissue Pool	Negative	
8	Tissue Pool	Negative	
9	Tissue Pool	Negative	
10	Tissue Pool	Negative	
11	Tissue Pool	Negative	
12	Tissue Pool	Negative	
13-Lot 5 BNT 5F k/s	Tissue Pool	Negative	
14	Tissue Pool	Negative	
15	Tissue Pool	Negative	
16	Tissue Pool	Negative	
17	Tissue Pool	Negative	
18	Tissue Pool	Negative	
19	Tissue Pool	Negative	
20	Tissue Pool	Negative	
21	Tissue Pool	Negative	
22	Tissue Pool	Negative	
23	Tissue Pool	Negative	
24	Tissue Pool	Negative	
25-Lot 6 RBT 5F k/s	Tissue Pool	Negative	
26	Tissue Pool	Negative	
27	Tissue Pool	Negative	
28	Tissue Pool	Negative	

Aquatic viral culture SOP: 905.2016.11.09

Animal	Specimen	Result	Isolate
29	Tissue Pool	Negative	
30	Tissue Pool	Negative	
31	Tissue Pool	Negative	
32	Tissue Pool	Negative	
33	Tissue Pool	Negative	
34	Tissue Pool	Negative	
35	Tissue Pool	Negative	
36	Tissue Pool	Negative	
37-Lot 7 TT 5F k/s	Tissue Pool	Negative	
38	Tissue Pool	Negative	
39	Tissue Pool	Negative	
40	Tissue Pool	Negative	
41	Tissue Pool	Negative	
42	Tissue Pool	Negative	
43	Tissue Pool	Negative	
44	Tissue Pool	Negative	
45	Tissue Pool	Negative	
46	Tissue Pool	Negative	
47	Tissue Pool	Negative	
48	Tissue Pool	Negative	

Aquatic viral culture test comment: All samples submitted on this case were negative for Oncorhynchus Masou Virus, Infectious Pancreatic Necrosis Virus, Infectious Hematopoietic Necrosis Virus, Viral Hemorrhagic Septicemia Virus, Epizootic Hematopoietic Necrosis Virus, and Spring Viremia of Carp on CHSE-214 & EPC cell lines.

Previously reported results:

Aquaculture- Last reported on 12/08/17 Authorized by Kevin Snekvik, Section Head

Aquatic bacterial screen SOP: 936.2015.08.05

Animal	Specimen	Result	Isolate	
Lot 6 RBT	Culture Medium	See comment.		
Resul	t Comment: All samples	submitted on this car	e were negative for Aeromo	onas salmonicida and Yersinia

ruckeri. Comment:

Bacterial contaminants were present in >50% of 60 samples submitted. While this submission can be evaluated, high levels of contamination greatly increase the difficulty and time required for laboratory screening.

BKD FA SOP: 919.2015.06.17

Animal	Specimen	Result
1-Lot 4 BKT Individual Kidney	Kidney	Negative
2	Kidney	Negative
3	Kidney	Negative
4	Kidney	Negative

DVD	T.A	COD.	010	2015	.06.17	
BKU	P A	SUP:	717	.2015	.uo. 1 /	

Animal 919.2015.06.17	Specimen	Result
5	Kidney	Negative
6	Kidney	Negative
7	Kidney	Negative
8	Kidney	Negative
9	Kidney	Negative
10	Kidney	Negative
11	Kidney	Negative
12	Kidney	Negative
13	Kidney	Negative
14	Kidney	Negative
15	Kidney	Negative
16	Kidney	Negative
	Kidney	Negative
17	•	_
18	Kidney	Negative
19	Kidney	Negative
20	Kidney	Negative
21	Kidney	Negative
22	Kidney	Negative
23	Kidney	Negative
24	Kidney	Negative
25	Kidney	Negative
26	Kidney	Negative
27	Kidney	Negative
28	Kidney	Negative
29	Kidney	Negative
30	Kidney	Negative
31	Kidney	Negative
32	Kidney	Negative
33	Kidney	Negative
34	Kidney	Negative
35	Kidney	Negative
36	Kidney	Negative
37	Kidney	Negative
38	Kidney	Negative
39	Kidney	Negative
40	Kidney	Negative
41	Kidney	Negative
42	Kidney	Negative
43	Kidney	Negative
44	Kidney	Negative
45	Kidney	Negative
46	Kidney	Negative
47	Kidney	Negative
48	Kidney	Negative
49	Kidney	_
	•	Negative
50	Kidney	Negative
51	Kidney	Negative
52	Kidney	Negative
53	Kidney	Negative
54	Kidney	Negative
55	Kidney	Negative
56	Kidney	Negative

BKD FA SOP: 919.2015.06.17

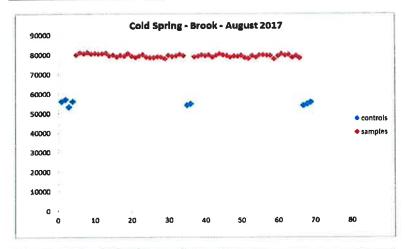
Animal	Specimen	Result
57	Kidney	Negative
58	Kidney	Negative
59	Kidney	Negative
60	Kidney	Negative

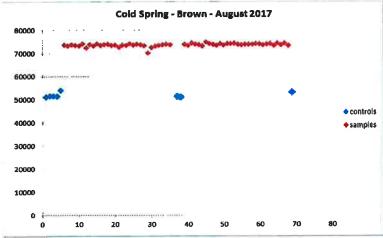
M. cerebralis digest SOP: 922.2015.06.08

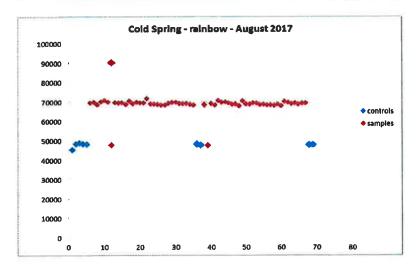
Animal	Specimen	Result
1-Lot 6 RBT 5F Heads	Head pool	Negative by digest.
2	Head pool	Negative by digest.
3	Head pool	Negative by digest.
4	Head pool	Negative by digest.
5	Head pool	Negative by digest.
6	Head pool	Negative by digest.
7	Head pool	Negative by digest.
8	Head pool	Negative by digest.
9	Head pool	Negative by digest.
10	Head pool	Negative by digest.
11	Head pool	Negative by digest.
12	Head pool	Negative by digest.

28 July 2017
Cold Spring Farm, sampled on 8/8/2017
Blood samples analysed at Department of Pathology Flow Cytometry Center
University of Washington, Seattle WA

	tripioid	not tripioid
Brook	60	0
Brown	60	0
Rainbow	58	2







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controls in blue

diploid samples in pink

	Brook			Brown			Rainbow		
	sample	G1		sample	G1		sample	G1	
	пате	MEAN		name	MEAN		name	MEAN	
1	dlploid-2	56043		diploid-1	51061		diploid-1	45211	
2	diploid-3	57106		diploid-2	51363		diploid-2	48227	
3	diploid-4	53191		diploid-3	51419		diploid-3	48791 48211	
4	diploid-5	56022		diploid-4	51302		diploid-4 diploid-5		
5	1	79832		dlploid-5	53878	6		48158 69599	
6	2	81084	6 7	1 2	73503 73178	0			
7 8	4	80565 81231	8		73682	8			
9	5	80387	9	4	73385	9			
10	6	80841	10		73254	10		70980	
11	7	80366	11		74074	11			
12	. 8	80613	12		72281	12			90370
13	9	80854	13		73842	13		69767	
14	10	79504	14		73237	14		69494	
15	11	79880	15		74042	15	10	69740	
16	12	78982	16		73287	16	11	68768	
17	13	79771	17	12	73737	17	12	70628	
18	14	79337	18	13	73910	18	13	69154	
19	15	80567	19	14	73385	19	14	69866	
20	16	79362	20	15	73448	20	15		
21	17	78627	21		72615	21			
22	18	79389	22	17	73468	22	17		
23	19	80026	23		73361	23			
24	20	78878	24		74156	24			
25	21	78474	25		73552	25			
26	22	78557	26		73898	26			
27	23	79014	27		73705	27			
28	24	78905	28		73242	28			
29	25	77993	29		70069	29			
30	26	79652	30		72436	30			
31	27	79210	31		73090	31			
32	28	79557	32		73390 73704	32			
33	29	80194	33 34		73898	34			
34	30	79577 54021	35		73684	35			
	diploid-1a	54814		diploid-1a	51244	1 1 1	diploid-1a	48142	
37	diploid-2a 31	79030		diploid-2a	51060		diploid-1a	47672	
38	32	79424	38		73767	38			
39	33	79831	39		73341	39			
40	34	79532	40		74392	40			
41	35	79919	41		73936	41			
42	36	78827	42		73659	42			
43	37	79776	43		73072	43	36	69865	i
44	38	80529	44		74856	44	37	70064	ļ.
45	39	79925	45	38	74153	45	38	69549)
46	40	79500	46	39	73737	46	39	68895	;
47	41	78845	47	40	73297	47	7 40	69078	3
48	42	79401	48	41	74166	48	3 41	68055	;
49	43	79244	49	42	73487	49	42	70671	l.
50	44	79647	50	43	74041	50) 43	68987	7
51	45	78558	51	44	74055	5:	L 44	68818	3
52	46	78182	52	45	74296	57			
53	47	79532	53		73802				
54	48	78898	54		73471				
55	49	79866	55		73768				
56	50	79865	56		73854				
57	51	79688	57		73844				
58	52	79565	58		74157				
59	53	77758	59		74015	59			
60	54	79346	60		73471				
61	55	80393	61		73761				
62	56	79684	62		74075				
63	57	80016	63						
64	58	78637	64						
65	59	79533	65						
66	60 dialoid 1b	78325	66			3 1			
	dipioid-1b dipioid-2b	53964 54791	67	diploid-1b	73190 52804	1 1	, oo B diploid-1b	47830	
	diploid-26 diploid-3b	55673		alpiola-10	32004		9 diploid-2b	4784	
09	urproru-3D	330/3	,			Lo	. u.piviu-20	7704.	