DEPARTMENT OF ECOLOGY
MAY 23 2013
WATER QUALITY PROGRAM

State of Washington
Department of Fish and Wildlife

Mailing Address: 600 Capitol Way N, Olympia WA 98501-1091, (360) 902-2200, TDD (360) 902-2207
Main Office Location: Natural Resources Building, 1111 Washington Street SE, Olympia WA

May 24, 2013

Mr. Jonathan Jennings
Aquatic Pesticide Program
Department of Ecology
Post Office Box 47600
Olympia, Washington 98504-7600

Re: NPDES Permit WA0041009 Annual Report

Dear Mr. Jennings:

Enclosed are Washington Department of Fish and Wildlife's Post-Treatment Discharge Monitoring Reports for Fish Lake (Spokane County), treated on October 22, 2012; Burke Lake (Grant County), treated October 24, 2011 and Little Beaver Lake (Okanogan County),treated on October 29, 2012. In all, three lakes were directly treated with or exposed to rotenone and were monitored under the requirements of NPDES Waste Discharge Individual Permit Number WA0041009 during the fall of 2012. All other pertinent documentation, as mandated by the reporting requirement under S3.A of NPDES Waste Discharge Individual Permit Number WA0041009, is included. Zooplankton monitoring, as required by NPDES Waste Discharge Individual Permit Number WA0041009, is enclosed in this packet, but reported separately from the Post-Treatment Discharge Monitoring Reports.

Also enclosed are a copy of the VOC and Semi-VOC analysis for each lake at 24 hours and 4 weeks post-treatment, along with a copy of the amended FSEIS for the lakes proposed for treatment in the fall of 2012, including all SEPA comments, results and decisions, as well as the 2013 Lake and Stream Rehabilitation Proposal list.

Please feel free to contact me at (509) 892-1001 ext. 307 or email Christopher.Donley@dfw.wa.gov with any questions.

Sincerely,

Chris Donley
Inland Fish Program Manager

Enclosures

cc: Craig Burley, WDFW Olympia

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Chris Dailey

POST-TREATMENT DISCHARGE MONITORING REPORTS FOR 2012

Spokane County
Fish Lake

Grant County
Burke Lake

Okanogan County
Little Beaver Lake

Washington Department of Fish and Wildlife

NPDES Permit Post-Treatment Discharge Monitoring Reports for 2012

Fish Lake (Spokane County)
Burke Lake (Grant County)
Little Beaver Lake (Okanogan Co.)

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Washington Department of FISH and WILDLIFE

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FISH LAKE POST-TREATMENT DISCHARGE MONITORING REPORT 2012

Submitted by:

William P. Baker, District 1 Fish Biologist
Washington Department of Fish and Wildlife
Fish Program/Fish Management Division – Region 1
755 S. Main St.
Colville, WA 99114

and

Randall Osborne, District 2 Fish Biologist
Washington Department of Fish and Wildlife
Fish Program/Fish Management Division
2315 N. Discovery Place
Spokane Valley, WA 99216

FISH LAKE (SPOKANE COUNTY)

Location: T23N, sections 4 & 5, T24N, sections 32 & 33 R42E

Dates Treated: October 22, 2012

Purpose of Treatment: The Washington Department of Fish and Wildlife (WDFW) provides many types of fisheries in response to public desires. WDFW manages both trout and warmwater recreational fisheries using multiple species of fish, providing diverse recreational angling opportunity. Public demand for, and participation in, production trout fisheries is high. These fisheries are prized as opportunities for families to recreate together, as well as providing an appropriate challenge for occasional or novice anglers. Lowland Lakes Opening Day trout fisheries provide a relaxed recreational opportunity; give anglers outdoor opportunity during the spring, summer, and fall months; and are also integral to state and local economies.

Alternatives to rehabilitation are costly or impractical. To maintain a trout fishery comparable to the current fingerling-stocked trout fishery in Fish Lake with catchable-sized fish would require 7,500 to 10,000 catchable rainbow trout per year. Stocking of catchable-sized fish is nearly ten times as expensive as fry planting, and Region 1 lacks the hatchery space and water to institute a catchable fish-stocking program as a substitute for lake rehabilitation. Regardless of fish size at stocking, interspecific competition with warmwater fishes limits trout growth and condition. Ultimately, in the face of competition with warmwater fish, trout recruitment and fish quality lead to an undesirable trout fishery.

WDFW restored Fish Lake to a popular, easily accessible trout fishery based on fingerling-stocked trout through lake rehabilitation. The average catch rates should be 4 to 5 fish/angler on the opener with a sustained harvest of 2 to 3 fish/angler for the duration of the season. Spring fry should be a minimum of 11 inches, and carryover harvest should be 10 to 15 percent of the overall harvest. Success will be measured during Opening Day and random creel contacts and biological surveys. Beneficial effects of lake rehabilitation should be expected to last approximately 6 to 8 years under current management schemes. Additionally, to abandon this lake as a trout fishery is to invite other illegal fish introductions across the state in trout-only managed lakes.

Licensed Applicators(s): William Baker, Washington Department of Fish and Wildlife (WDFW), District 1 Fish Biologist, Pesticide License # 78803; Randall Osborne, WDFW, District 2 Fish Biologist, Pesticide License # 74886; Chris Donley, WDFW, Inland Fish Program Manager, Pesticide License # 65173; Chad Jackson, WDFW, District 5 Fish Biologist, Pesticide License # 79808; Robert Jateff, WDFW, District 6 Fish Biologist, Pesticide License # 74965.

Lake Description (or during treatment, if different from full pool):

Surface Area: 47 surface acres
Volume: 1357 acre-feet
Mean Depth: 28.9 feet
Max Depth: 48.0 feet

Description of Lake Inlet(s)/Outlet(s)/seeps/springs:
Any Temporary Water Control Measures: No
Inlet/Outlet running at time of lake rehab? (yes/no) No

Stream Description (if applicable):
Width: N/A
Length: N/A
Flow Rate of Stream/Outlet (cfs): N/A
Volume and weight of water treated:

Treatment Description:
Name of Fish Toxicant Product Used: Rotenone Cube powdered Fish Toxicant EPA Reg # 6458-6; Liquid CFT Legumine EPA Reg # 75338-2

Description of Treatment Method: Rotenone was loaded and delivered the morning of the treatment. A crew of 10 WDFW employees worked on the project. The treatment was staged from the public boat launch on the northeast shoreline of the lake. Two pumper-boats, each with a crew of two employees, were used to slurry powdered rotenone with lake water. Four employees applied liquid rotenone to shoreline and backwater areas using boats rigged with liquid pumps and fire hoses. Two employees managed shoreline operations. Application of powdered rotenone began at 09:00 and was completed by 16:00. Liquid rotenone was applied in the shallows of the lake beginning at 10:00 and completed by 15:00.

Quantity of Fish Toxicant Used: 8,621 pounds of powdered rotenone and 54 gallons of liquid CFT Legumine.

Concentration of Active Rotenone in Formulated Rotenone Product: 7.5% and 5.0% active ingredient for powdered and liquid product, respectively.

Concentration of Active Rotenone in Water: 3.6ppm

Pre-Treatment Water Conditions/Quality:

Water sampling was done on October 21, 2012

Depth (m)	Temp °C	DO (ppm)	pH
Surface	11.4	8.18	7.44
1	11.4	8.13	7.52
2	11.4	8.03	7.67
3	11.4	7.91	7.63
4	11.4	7.68	7.63
5	11.4	7.75	7.63
6	11.4	7.57	7.59
7	11.3	7.28	7.47
8	11.1	6.02	7.30
9	7.9	0.62	6.83
10	6.8	0.41	6.67
11	6.4	0.31	6.45
12	6.2	0.27	6.42

Detoxification of Rotenone Treated Water (If Required): Water within Fish Lake treated with rotenone was allowed to detoxify naturally through chemical interactions with sunlight, dissolved oxygen, and organic material. Rotenone detoxifies rapidly in the presence of heavy organic materials and groundwater. The project leader is confident that treated water from Burke Lake did not reach any other surface waters near the lake.

Description of Detoxification Methods/Equipment (Potassium Permanganate Application Rate in Pounds per Hour): N/A
Flow Rate of Stream/Outlet (cfs): N/A
Estimate of Average Concentration (ppm): N/A
Alkalinity (only if neutralization with potassium permanganate is required): N/A

Period of Toxicity: Persistent rotenone toxicity was determined by bioassay. Live trout were held in a modified minnow trap (1 gal volume with free flow-through) in the lake and survival monitored. Trout exhibit signs of stress and lose equilibrium after three hours at rotenone concentrations of 0.05 ppm product (0.0025 ppm actual rotenone) at water temperatures of 47° F, and response is fairly uniform among individuals in similar circumstances. Rotenone is considered below detection limits when trout remain alive for at least 48 hours. Individual mortalities within a group of trout frequently occur due to mechanical damage when handled or transported/confined in relatively small containers.

Bioassay monitoring began 1 month post-treatment. Eleven 6-inch rainbow trout were placed in a live-bucket at the southeast end of the lake on 12/26/12. The live-bucket was checked at 48 hours, and all fish were dead. Rotenone toxicity was determined to be above detection limits. Additional monitoring occurred twice prior to ice-up (12/10/12, 12/19/12), but rotenone toxicity

remained above detection limits. The lake froze over prior to monitoring on 12/27/12. Additional bioassay monitoring resumed following ice-out on 3/8/13. The live-bucket was checked at 48 hours, and all fish were alive confirming that rotenone toxicity was below detection limits.

Eradicated Fish Species:

Species,	Size	Estimated abundance
Pumpkinseed sunfish *Lepomis gibbosus*	1-5"	tens of thousands (maximum estimate = 250,000)
Brown bullhead *Ameiurus nebulosus*	3-10"	thousands (maximum estimate = 10,000)
Tench *Tinca tinca*	3-10"	tens (maximum estimate = 100)
Eastern brook trout *Salvelinus fontinalis*	12-14"	tens (maximum estimate = 100)
Tiger trout *S. fontinalis x Salmo trutta*	8-11"	tens (maximum estimate = 100)
Northern pike *Esox lucius*	20-50"	tens (maximum estimate = 10)

Tench were not observed in pre-rehab sampling.

Impact on Non-Target Organisms: None observed

The following non-target fish species were not listed in the pre-rehab report, but were eradicated during the treatment of Fish Lake; Eastern brook trout; Tiger trout; and Tench.

Post-Treatment Monitoring: Prior to the treatment, Fish Lake was sampled for various water quality parameters including temperature, dissolved oxygen, pH, and zooplankton. Results from the pre-treatment water quality sampling are provided above. Post treatment sampling included VOC, semi-VOC, and n-methylpyrrolidone. Water samples were taken in an area of the lake where the heaviest concentrations of liquid rotenone were applied (northeast end of the lake) 24 hours and 4 weeks post-treatment to check for residues related to the carriers present in the liquid formulation of rotenone. Samples were sent to an accredited lab for analyses per EPA methods. Samples were analyzed for 63 volatile organic compounds and 75 semi-volatile organic compounds, and detection limits were 0.2-10.0 ug/l, variously (see attachments 1 and 2). In the 24-hour sample and the 4-week sample, the amounts of all 138 compounds potentially present in liquid rotenone formulations were below detection limits except for n-Methyl 2-Pyrrolidone (24-hr sample = 1.5 μg/L and 4-week sample = 2.1 μg/L), Bis(2-Ethylhexyl) Phthalate (24-hr sample = 2.6 μg/L), and Chloroform (24-hr sample = 2.3 μg/L).

Brief Description of Treatment/Detoxification and Other Comments: Treatment of Fish Lake was conducted on October 22, 2012. Conditions were generally favorable. Weather conditions were overcast and cool with air temperature around 50°F. Rotenone was loaded and delivered the morning of the treatment. A crew of 10 WDFW employees worked on the project. The treatment was staged from the public boat launch on the northeast shoreline of the lake. Two pumper-boats, each with a crew of two employees, were used to slurry powdered rotenone with lake water. Four employees applied liquid rotenone to shoreline areas using boats rigged with a liquid pump and fire hose. Two employees managed shoreline operations. Application of powdered rotenone began at 09:00 and was completed by 16:00. Liquid rotenone was applied in the shallows of the lake beginning at 10:00 and completed by 15:00.

Rehabilitation of Fish Lake was considered successful. Dying pumpkinseed sunfish, northern pike, and trout were observed within three hours of beginning treatment. On the following day, large numbers of dead fish were observed throughout the lake along with some surviving brown bullhead. On the second day post-treatment, all fish observed, including brown bullhead had succumbed. Due to the treatment concentration of rotenone used (3.6 ppm) and long period of toxicity, it is expected that the treatment was effective.

Estimated Cost of Treatment:

Treatment of Fish Lake required about 10 man-days (man-day = 8 hrs) of labor from pre-treatment preparation (signing, sampling, rotenone and equipment transport) through treatment, clean up, and travel. Total cost of treatment (rotenone, labor @ $288.00/man-day, travel, expendable equipment) was approximately $30,719.81, including about $2880.00 for labor during the treatment, $660.00 for equipment, and $25,440.15 for rotenone (12,931 lbs powder @ $1.65/lb @ 5.0%, delivered; 54 gal liquid @ $76.00/gal). Estimated time for pre-rehabilitation proposals, general public outreach, post-rehabilitation sampling and reports added 6 days.

BURKE LAKE POST-TREATMENT DISCHARGE MONITORING REPORT 2012

Submitted by:

Chad Jackson, District 5 Fish Biologist
Washington Department of Fish and Wildlife
Fish Program/Fish Management Division-Region 2
1550 Alder Street NW
Ephrata, WA 98837
(509) 754-4624, extension 250
Chad.Jackson@dfw.wa.gov

BURKE LAKE (GRANT COUNTY)

Location: T19N, R23E, & Sections 14 & 15

Date Treated: October 24, 2012

Purpose of Treatment: Since 2010, Rainbow Trout fingerlings planted into Burke Lake have experience poor survival and as a result fishery performance has declined severely. The trout fishery has been propped up the past couple years with Rainbow Trout catchables, which cost up to 10 times more to produce than fingerlings. A fish community survey performed on July 5/6, 2012 revealed high abundances of small (<250 mm) Brown Bullhead and Black Crappie. Very few (n=8) Rainbow Trout were sampled during the survey. Table 1 below summarizes the results of the fish community survey performed on Burke Lake. The sizes of Brown Bullhead and Black Crappie observed in Burke Lake complete with Rainbow Trout fingerlings for the same zooplankton and insect food resources in the lake. In order to restore the quality trout fishery in Burke Lake a rehabilitation was necessary to eradicate abundant Brown Bullhead and Black Crappie.

Burke Lake is a popular trout fishery located within the WDFW Quincy Wildlife Management Area just south of the Town of Quincy Washington. Burke Lake is open to fishing from March 1st through July 31st. Anglers may keep up to five trout daily with no minimum size or special gear restrictions. The trout fishery in Burke Lake is maintained through annual Rainbow Trout fingerling plants from Columbia Basin Hatchery in Moses Lake Washington. Fingerling trout are inexpensive to raise and stock and grow to 12-13 inches in length within one year post release. Trout that carryover to older ager classes (e.g., 2-3 years) can achieve sizes up to 20+ inches. This stocking strategy is only effective when lakes like Burke are kept free from competing and/or predatory fish species. Lake rehabilitations using the aquatic pesticide rotenone is the only feasible method to eradicate competing and/or predatory fish species from lakes.

Table 1. Summary of fish community survey performed on Burke Lake in July 5/6, 2012.

SPECIES[1]	GEAR[2]	# SAMPLED	% TOTAL	CPUE[2]	SIZE RANGE[3]
BBH	EF	22	35.5%	64.7	78-232
BC	EF	39	62.9%	118.2	76-194
RB	EF	1	1.6%	3.0	306-306
BBH	GN	206	71.0%	56.0	134-206
BC	GN	77	26.6%	38.5	96-160
RB	GN	7	2.4%	3.5	368-544

[1]Species Codes: BBH=Brown Bullhead, BC=Black Crappie, & RB=Rainbow Trout
[2]Gear Codes: EF=Electrofishing & GN=Gill Nets
[3]CPUE: Catch-Per-Unit-of Effort, EF=Fish-Per-Hour, & GN=Fish-Per-Net Night (~12 hours)
[4]Size Range: Fish lengths in millimeters

Licensed Applicator(s): William Baker, Washington Department of Fish and Wildlife (WDFW), District 1 Fish Biologist, Pesticide License No. 78803; Chris Donley, WDFW, District 2 Fish Biologist, Pesticide License No. 65173; Chad Jackson, WDFW, District 5 Fish Biologist, Pesticide License No. 79808; Robert Jateff, WDFW, District 6 Fish Biologist, Pesticide License No. 74965.

Lake Description:

1.) **Surface Acreage:** 70 acres

2.) **Volume:** 1,050 acre feet

3.) **Mean Depth:** 15 feet

4.) **Max Depth:** 28 feet

5.) **Inlet/Outlet Description:** Burke Lake is feed by a short and narrow ground water spring located at the northeast end of the lake. The outlet is located at the far west end of Burke Lake and drains immediately into a small and shallow wetland. The water in the wetland drains subsurface. Exact lengths and widths were not taken on the inlet and outlet of Burke Lake.

6.) **Inlet/Outlet Flow Measurements:** Flow measurements (i.e., cubic feet per second) were not taken from the inlet and outlet of Burke Lake.

7.) **Temporary Water Control Measures Description:** No water control measure were taken prior, during, or post treatment.

Name of Fish Toxicant Product Used: CFT Legumine Liquid and Cube Root Powdered Rotenone.

Description of Treatment Method: The main body of Burke Lake was treated using two flat bottomed boats equipped with water pumps that mix powdered rotenone with lake water. This slurry mixture was applied near the water's surface and evenly across the main body of the lake. An airboat equipped with a water pump mixes liquid rotenone with lake water and was used to treat shoreline and back water areas of Burke Lake.

Quantity of Fish Toxicant Used: A total of 7,150 pounds and 29 gallons of powdered and liquid rotenone at 5%-equivalent were used, respectively, to treat Burke Lake.

Concentration of Rotenone in Formulated Rotenone Product: The percent active ingredient of the powdered and liquid rotenone was 7.5% and 5.0%, respectively.

Concentration of Active Rotenone in Water: 3.83ppm

Pre-Treatment Water Conditions/Quality: Water quality measurements on Burke Lake were taken on 10/23/12 prior to treatment. Table 2 summarizes the water quality results.

Table 2. Water quality measurements taken in Burke Lake on October 23rd, 2012.

Depth (m)	Temp °F	DO (ppm)	pH	Cond (µS/cm)
Surface	54.3	10.1	8.1	399
1	54.3	10.0	8.2	399
2	54.2	10.0	8.3	399
3	54.2	10.0	8.3	399
4	54.2	9.8	8.3	399
5	54.1	9.7	8.3	399
6	54.0	9.6	8.3	399
7	53.9	9.5	8.3	399
8	53.7	9.2	8.3	400
9	53.1	9.3	8.3	400

Detoxification of Rotenone Treated Water (If Required):

1.) **Description of Detoxification Methods/Equipment:** Water within Burke Lake treated with rotenone was allowed to detoxify naturally through chemical interactions with sunlight, dissolved oxygen, and organic material. Treated water exiting Burke Lake into the small and shallow wetland located just west of the lake was allowed to detoxify naturally through chemical interactions with sunlight, dissolved oxygen, and rich organic materials within the wetland and ground water processes. Rotenone detoxifies rapidly in the presence of heavy organic materials and groundwater. The project leader is confident that treated water from Burke Lake did not reach any other surface waters near the lake.

2.) **Potassium Permanganate Application Rate (Pounds Per Hour):** N/A

3.) **Flow Rate of Stream/Outlet (cfs):** N/A

4.) **Estimate of Average Concentration (ppm):** N/A

5.) **Alkalinity (Only if neutralization with potassium permanganate is required):** N/A

Period of Toxicity: Approximately 34 days.

Eradicated Fish Species: Brown Bullhead (*Ameiurus nebulosus*), Black Crappie (*Pomoxis nigromaculatus*), and Rainbow Trout (*Oncorhynchus mykiss*)

Impact on Non-Target Organisms: Dead and moribund bull frog tadpoles were observed in Burke during and post-treatment.

Pre- and Post-Treatment Monitoring: Prior to treatment, water quality measurements were taken in Burke Lake on October 23rd, 2012. Temperature, dissolved oxygen, pH, and conductivity were measured in Burke Lake. Table 2 above summarizes the results of the water quality measurements. Additionally, three replicate zooplankton tows were taken from the deepest location on Burke Lake.

Post-treatment, water samples were taken from Burke Lake to test for VOCs, semi-VOCs, and N-methylpyrrolidone. Results are included in the program wide report submitted to Ecology. Water samples are collected twice post-treatment at 24 hours and one month. Zooplankton are also sampled pot-treatment. However, zooplankton sampling occurs six months and one year post-treatment and therefore results cannot be shared in this report.

Brief Description of Treatment/Detoxification and Other Comments: The Burke Lake rehabilitation was started and completed on October 24th, 2012. Weather conditions during the rehabilitation were cold (upper 30 to low 40°F) with light rain and winds (1.5-6 mph) mostly from the east. The weather did not affect application methods in any way. Within 3-4 hours of treatment, stressed fish were observed along the shoreline and lake surface. Several thousands of dead fish (predominately Brown Bullhead and Black Crappie) were observed along the shoreline and lake surface post-treatment. No additional fish species were observed post-treatment that were not seen during the fish community. Hundreds to thousands of dead and moribund bullfrog tadpoles were observed post-treatment. No dead fish were observed in the wetland that Burke Lake drains into.

Burke Lake detoxified approximately 34 days post-treatment. On November 28th, 2012, eight rainbow trout fingerlings were placed into a live trap and submerged into Burke Lake. Twenty four hours later on November 29th, 2012, the live trap was retrieved to assess trout survival. All eight trout survived and did not exhibit any lethargic or stress behavior. Burke Lake was classified as detoxified on November 29th, 2012 and all public signage was removed from each access site on the same day.

Estimate Cost of Treatment: Treatment of Burke Lake required about 10 man-days (man-day = 8 hrs) of labor from pre-treatment preparation (signing, sampling, rotenone and equipment transport) through treatment, clean up, and travel. Total cost of treatment (rotenone, labor @ $288.00/man-day, travel, expendable equipment) was approximately $23,440.25, including about $2880.00 for labor during the treatment, $660.00 for equipment, and $19,900.25 for rotenone (10,725 lbs powder @ $1.65/lb @ 5.0%, delivered; 29 gal liquid @ $76.00/gal). Estimated time for pre-rehabilitation proposals, general public outreach, post-rehabilitation sampling and reports added 6 days.

LITTLE BEAVER LAKE POST-TREATMENT DISCHARGE MONITORING REPORT

Submitted by:

Robert Jateff, District 6 Fish Biologist
Washington Department of Fish and Wildlife
Fish Program/Fish Management Division – Region 2
Methow Field Office
20168 Hwy 20
Twisp, WA 98856
(509) 997-0316
Robert.Jateff@dfw.wa.gov

Little Beaver Lake (Okanogan County)

Location: T39N, R30E, Section 30

Date Treated: October 29, 2012

Purpose of Treatment: Little Beaver Lake is located on United States Forest Service (USFS) property within Okanogan County. It is a small water body, and in normal years provides an excellent trout fishery in a small lake setting. The recent introduction of yellow perch into Little Beaver Lake has compromised the trout fishery to the point where very few anglers fish the lake anymore. Removal of this competing species and replanting with trout will help to restore the lake to its former quality status.

Licensed Applicators: William Baker, Washington Department of Fish and Wildlife (WDFW), District 1 Fish Biologist, Pesticide License No. 78803; Chris Donley, WDFW, District 2 Fish Biologist, Pesticide License No. 65173; Chad Jackson, WDFW, District 5 Fish Biologist, Pesticide License No. 79808; Robert Jateff, WDFW, District 6 Fish Biologist, Pesticide License No. 74965.

Lake Description:
Surface Area: 10 surface acres
Volume: 75 acre-feet
Mean Depth: 7.5 feet
Max Depth: 11 feet
Inlet/Outlet Description: Little Beaver lake is fed by a spring that is located at the west end of the lake. The outlet is located at the east end of the lake and continues downstream for ¼ mile before going subsurface.
Any Temporary Water Control Measures: None
Inlet/Outlet running at time of rehabilitation: The inlet was running at a very low volume as was the outlet before going subsurface.

Stream Description:
Width: 3 feet
Length: ¼ mile
Flow Rate of Stream/Outlet: 5 gpm
Volume and weight of water treated: Treated water from lake seeped into outlet creek, travelled entire length (1/4 mile) and then went subsurface

Treatment Description:
Name of Fish Toxicant Product Used: CFT Legumine Liquid and Prenfish Powdered Rotenone.

Description of Treatment Method: The main lake was treated using flat bottomed boats (pumper boat and airboat) equipped with a water pump that mixes powdered rotenone with lake water. This slurry mixture was applied evenly across the main lake body. The inlet area was treated with liquid rotenone applied via truck mounted spray tank. The outlet was treated when water from the lake seeped into the channel before going subsurface ¼ mile downstream.

Quantity of Fish Toxicant Used: 497 pounds of powdered rotenone and 36 gallons of liquid rotenone.

Concentration of Active Rotenone in Formulated Rotenone Product: 5.0% active ingredient for powered and liquid rotenone

Concentration of Active Rotenone in Water: 4.0 ppm

Pre-Treatment Water Conditions/Quality:

Table 1. Summary of pre-treatment water sampling at Little Beaver Lake, Oct 28, 2012

Depth (m)	Temp °C	DO (ppm)	pH
0.5	5.05	7.33	8.79
1.0	4.99	7.32	8.78
1.9	4.97	7.26	8.74
2.9	4.91	7.20	8.66
3.8	4.84	7.20	8.66
4.7	4.94	6.94	8.45

Pre-treatment zooplankton sampling: Zooplankton tows were taken at three points on the lake (upper, middle, and lower) and at 4.0 meters depth. Samples were preserved in 70% ethanol to be analyzed at a later date.

Detoxification of Rotenone Treated Water: Water within Little Beaver Lake treated with rotenone was allowed to detoxify naturally through chemical interactions with sunlight, dissolved oxygen, and organic material. Rotenone detoxifies rapidly in the presence of heavy organic materials and groundwater. The project leader is confident that treated water from Little Beaver Lake did not reach any other surface waters near the lake.

Description of Detoxification Methods/Equipment: N/A
Flow Rate of Stream/Outlet: N/A
Estimate of Average Concentration: N/A
Alkalinity: N/A

Period of Toxicity: Test fish (rainbow trout) were put into Little Beaver Lake at six weeks and at eight weeks post treatment. In both cases, the fish did not survive. The lake iced over before another test could be conducted, so it was decided to wait until ice out before conducting another test. All treatment caution signs were left in place until spring time testing. In April, 2013, another test group (rainbow) was put into the lake and all fish survived the required 48 hours.

Eradicated Fish Species: Yellow perch (Perca flavescens), cutthroat trout (Oncorhynchus clarki lewisi), eastern brook trout (Salvelinus fontinalis), and lake chub (Couesius plumbeus). The yellow perch, eastern brook trout and cutthroat trout were all present prior to the treatment, however lake chub were not identified pre rehab, but showed up in considerable numbers post rehab.

Impact on Non-Target Organisms: None observed

Post-Treatment Monitoring: Prior to the treatment, Little Beaver Lake was sampled for various water quality parameters including temperature, dissolved oxygen, pH, and zooplankton. Results from the pre-treatment water quality sampling are provided above (Table 1). Post treatment sampling included VOC, semi-VOC, and n-methylpyrrolidone within 24 hours and one month after the rehabilitation and will be reported in a program wide document provided to Department of Ecology. Zooplankton tows were conducted pre treatment, and at six months and one year post treatment, with sampling results being available at a later date.

Brief Description of Treatment/Detoxification and Other Comments: Treatment began on October 29, 2012 and concluded the same day. Powdered rotenone and liquid rotenone was applied to the lake by pumper boat and airboat. The inlet creek was treated with liquid rotenone from a truck mounted spray tank. Within a couple hours of treatment, stressed fish (yellow perch and lake chubs) were observed along the shoreline and at the lake surface. By the next day, thousands of juvenile perch (1-3 inches) along with hundreds of lake chubs (1-2 inches) were located along the shoreline as well as the lake bottom. Very few trout (eastern brook and cutthroat) were observed. The outlet creek from the lake downstream several hundred feet contained dead yellow perch and lake chubs.

Estimated Cost of Treatment: The treatment of Little Beaver Lake required 48 hours of labor from pre-treatment preparation (signing, sampling, rotenone and equipment transport) through treatment, clean up and travel. Total cost of treatment was approximately $5,784, which included labor ($1,728), equipment ($500), liquid rotenone ($2,736), and powdered rotenone ($820).

RESULTS OF VOC AND SEMI-VOC ANALYSIS AT 24 HOURS AND 4 WEEKS POST-TREATMENT, 2012, COLLECTED FROM:

Spokane County
Fish Lake

Grant County
Burke Lake

Okanogan County
Little Beaver Lake

November 2, 2012

Mr. Randy Osborne
Washington State Dept of Fish and Wildlife
2315 N. Discovery Pl.
Spokane Valley, WA 99216

Dear Mr. Osborne,

On October 24th, 1 sample was received by our laboratory and assigned our laboratory project number EV12100152. The project was identified as your Fish Lake Rehab. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 2315 N. Discovery Pl. Spokane Valley, WA 99216	DATE:	11/2/2012
		ALS JOB#:	EV12100152
		ALS SAMPLE#:	-01
CLIENT CONTACT:	Randy Osborne	DATE RECEIVED:	10/24/2012
CLIENT PROJECT:	Fish Lake Rehab	COLLECTION DATE:	10/23/2012 9:00:00 AM
CLIENT SAMPLE ID	1-5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	10/24/2012	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Acetone	EPA-8260	U	25	1	UG/L	10/24/2012	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	10/24/2012	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	10/24/2012	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	10/24/2012	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Chloroform	EPA-8260	**2.3**	2.0	1	UG/L	10/24/2012	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Trichloroethene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	10/24/2012	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	10/24/2012	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 2315 N. Discovery Pl. Spokane Valley, WA 99216	DATE: ALS JOB#: ALS SAMPLE#:	11/2/2012 EV12100152 -01
CLIENT CONTACT:	Randy Osborne	DATE RECEIVED:	10/24/2012
CLIENT PROJECT:	Fish Lake Rehab	COLLECTION DATE:	10/23/2012 9:00:00 AM
CLIENT SAMPLE ID	1-5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	10/24/2012	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	10/24/2012	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	10/24/2012	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP

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CLIENT CONTACT:	Randy Osborne	DATE RECEIVED:	10/24/2012
CLIENT PROJECT:	Fish Lake Rehab	COLLECTION DATE:	10/23/2012 9:00:00 AM
CLIENT SAMPLE ID	1-5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	10/31/2012	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	10/31/2012	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	10/31/2012	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP

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CLIENT CONTACT:	Randy Osborne	DATE RECEIVED:	10/24/2012
CLIENT PROJECT:	Fish Lake Rehab	COLLECTION DATE:	10/23/2012 9:00:00 AM
CLIENT SAMPLE ID	1-5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	10/31/2012	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
3,3'-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	**2.6**	2.0	1	UG/L	10/31/2012	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
n-Methyl 2-Pyrrolidone	EPA-8270M	**1.5**	0.050	1	UG/L	10/31/2012	ALSL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**117**	10/24/2012	GAP
Toluene-d8	EPA-8260	**86.7**	10/24/2012	GAP
4-Bromofluorobenzene	EPA-8260	**93.0**	10/24/2012	GAP
2-Fluorophenol	EPA-8270	**54.1**	10/31/2012	LAP
Phenol-d5	EPA-8270	**34.4**	10/31/2012	LAP

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CLIENT CONTACT:	Randy Osborne	DATE RECEIVED:	10/24/2012
CLIENT PROJECT:	Fish Lake Rehab	COLLECTION DATE:	10/23/2012 9:00:00 AM
CLIENT SAMPLE ID	1-5	WDOE ACCREDITATION:	C601

DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
Nitrobenzene-d5	EPA-8270	**93.6**	10/31/2012	LAP
2-Fluorobiphenyl	EPA-8270	**81.9**	10/31/2012	LAP
2,4,6-Tribromophenol	EPA-8270	**99.3**	10/31/2012	LAP
Terphenyl-d14	EPA-8270	**95.4**	10/31/2012	LAP

U - Analyte analyzed for but not detected at level above reporting limit.

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CLIENT:	Washington State Dept of Fish and Wildlife 2315 N. Discovery Pl. Spokane Valley, WA 99216	DATE: ALS SDG#: WDOE ACCREDITATION:	11/2/2012 EV12100152 C601
CLIENT CONTACT:	Randy Osborne		
CLIENT PROJECT:	Fish Lake Rehab		

LABORATORY BLANK RESULTS

MB-102412W2 - Batch 3191 - Water by EPA-8260

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	10/24/2012	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Acetone	EPA-8260	U	25	1	UG/L	10/24/2012	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	10/24/2012	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	10/24/2012	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	10/24/2012	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Trichloroethene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	10/24/2012	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	10/24/2012	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP

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CERTIFICATE OF ANALYSIS

CLIENT: Washington State Dept of Fish and Wildlife
2315 N. Discovery Pl.
Spokane Valley, WA 99216

DATE: 11/2/2012
ALS SDG#: EV12100152
WDOE ACCREDITATION: C601

CLIENT CONTACT: Randy Osborne
CLIENT PROJECT: Fish Lake Rehab

LABORATORY BLANK RESULTS

MB-102412W2 - Batch 3191 - Water by EPA-8260

1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	10/24/2012	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	10/24/2012	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	10/24/2012	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/24/2012	GAP

MB-101912W - Batch 3208 - Water by EPA-8270

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Pyridine	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT: Washington State Dept of Fish and Wildlife
2315 N. Discovery Pl.
Spokane Valley, WA 99216

DATE: 11/2/2012
ALS SDG#: EV12100152
WDOE ACCREDITATION: C601

CLIENT CONTACT: Randy Osborne
CLIENT PROJECT: Fish Lake Rehab

LABORATORY BLANK RESULTS

MB-101912W - Batch 3208 - Water by EPA-8270

1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	10/30/2012	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	10/30/2012	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	10/30/2012	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT: Washington State Dept of Fish and Wildlife
2315 N. Discovery Pl.
Spokane Valley, WA 99216

DATE: 11/2/2012
ALS SDG#: EV12100152
WDOE ACCREDITATION: C601

CLIENT CONTACT: Randy Osborne
CLIENT PROJECT: Fish Lake Rehab

LABORATORY BLANK RESULTS

MB-101912W - Batch 3208 - Water by EPA-8270

Diethylphthalate	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	10/30/2012	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
3,3'-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	10/30/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 2315 N. Discovery Pl. Spokane Valley, WA 99216	DATE: ALS SDG#: WDOE ACCREDITATION:	11/2/2012 EV12100152 C601
CLIENT CONTACT:	Randy Osborne		
CLIENT PROJECT:	Fish Lake Rehab		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 3191 - Water by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	**111**			10/24/2012	GAP
1,1-Dichloroethene - BSD	EPA-8260	**112**	**1**		10/24/2012	GAP
Benzene - BS	EPA-8260	**130**			10/24/2012	GAP
Benzene - BSD	EPA-8260	**130**	**1**		10/24/2012	GAP
Trichloroethene - BS	EPA-8260	**127**			10/24/2012	GAP
Trichloroethene - BSD	EPA-8260	**128**	**0**		10/24/2012	GAP
Toluene - BS	EPA-8260	**126**			10/24/2012	GAP
Toluene - BSD	EPA-8260	**128**	**2**		10/24/2012	GAP
Chlorobenzene - BS	EPA-8260	**94.5**			10/24/2012	GAP
Chlorobenzene - BSD	EPA-8260	**92.6**	**2**		10/24/2012	GAP

ALS Test Batch ID: 3208 - Water by EPA-8270

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Phenol - BS	EPA-8270	**29.4**			10/30/2012	LAP
Phenol - BSD	EPA-8270	**25.9**	**13**		10/30/2012	LAP
2-Chlorophenol - BS	EPA-8270	**84.4**			10/30/2012	LAP
2-Chlorophenol - BSD	EPA-8270	**76.4**	**10**		10/30/2012	LAP
1,4-Dichlorobenzene - BS	EPA-8270	**72.9**			10/30/2012	LAP
1,4-Dichlorobenzene - BSD	EPA-8270	**74.9**	**3**		10/30/2012	LAP
N-Nitroso-Di-N-Propylamine - BS	EPA-8270	**93.3**			10/30/2012	LAP
N-Nitroso-Di-N-Propylamine - BSD	EPA-8270	**97.8**	**5**		10/30/2012	LAP
1,2,4-Trichlorobenzene - BS	EPA-8270	**74.1**			10/30/2012	LAP
1,2,4-Trichlorobenzene - BSD	EPA-8270	**77.1**	**4**		10/30/2012	LAP
4-Chloro-3-Methylphenol - BS	EPA-8270	**82.7**			10/30/2012	LAP
4-Chloro-3-Methylphenol - BSD	EPA-8270	**75.8**	**9**		10/30/2012	LAP
Acenaphthene - BS	EPA-8270	**92.5**			10/30/2012	LAP
Acenaphthene - BSD	EPA-8270	**96.9**	**5**		10/30/2012	LAP
4-Nitrophenol - BS	EPA-8270	**24.7**			10/30/2012	LAP
4-Nitrophenol - BSD	EPA-8270	**18.7**	**28**		10/30/2012	LAP
2,4-Dinitrotoluene - BS	EPA-8270	**97.3**			10/30/2012	LAP
2,4-Dinitrotoluene - BSD	EPA-8270	**101**	**4**		10/30/2012	LAP
Pentachlorophenol - BS	EPA-8270	**87.8**			10/30/2012	LAP
Pentachlorophenol - BSD	EPA-8270	**87.7**	**0**		10/30/2012	LAP
Pyrene - BS	EPA-8270	**108**			10/30/2012	LAP
Pyrene - BSD	EPA-8270	**113**	**5**		10/30/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 2315 N. Discovery Pl. Spokane Valley, WA 99216	DATE: ALS SDG#: WDOE ACCREDITATION:	11/2/2012 EV12100152 C601
CLIENT CONTACT:	Randy Osborne		
CLIENT PROJECT:	Fish Lake Rehab		

MATRIX SPIKE RESULTS

ALS Test Batch ID: 3208 - Water by EPA-8270

Parent Sample: BATCH QC

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Phenol - MS	EPA-8270	**26.4**			10/30/2012	LAP
Phenol - MSD	EPA-8270	**29.8**	**12**		10/30/2012	LAP
2-Chlorophenol - MS	EPA-8270	**78.5**			10/30/2012	LAP
2-Chlorophenol - MSD	EPA-8270	**88.1**	**11**		10/30/2012	LAP
1,4-Dichlorobenzene - MS	EPA-8270	**79.7**			10/30/2012	LAP
1,4-Dichlorobenzene - MSD	EPA-8270	**86.5**	**8**		10/30/2012	LAP
N-Nitroso-Di-N-Propylamine - MS	EPA-8270	**96.2**			10/30/2012	LAP
N-Nitroso-Di-N-Propylamine - MSD	EPA-8270	**102**	**6**		10/30/2012	LAP
1,2,4-Trichlorobenzene - MS	EPA-8270	**83.1**			10/30/2012	LAP
1,2,4-Trichlorobenzene - MSD	EPA-8270	**88.2**	**6**		10/30/2012	LAP
4-Chloro-3-Methylphenol - MS	EPA-8270	**78.2**			10/30/2012	LAP
4-Chloro-3-Methylphenol - MSD	EPA-8270	**84.0**	**7**		10/30/2012	LAP
Acenaphthene - MS	EPA-8270	**97.5**			10/30/2012	LAP
Acenaphthene - MSD	EPA-8270	**100**	**3**		10/30/2012	LAP
4-Nitrophenol - MS	EPA-8270	**21.6**			10/30/2012	LAP
4-Nitrophenol - MSD	EPA-8270	**25.6**	**17**		10/30/2012	LAP
2,4-Dinitrotoluene - MS	EPA-8270	**102**			10/30/2012	LAP
2,4-Dinitrotoluene - MSD	EPA-8270	**105**	**3**		10/30/2012	LAP
Pentachlorophenol - MS	EPA-8270	**86.6**			10/30/2012	LAP
Pentachlorophenol - MSD	EPA-8270	**92.6**	**7**		10/30/2012	LAP
Pyrene - MS	EPA-8270	**112**			10/30/2012	LAP
Pyrene - MSD	EPA-8270	**116**	**4**		10/30/2012	LAP

APPROVED BY

Laboratory Director

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Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV12100152

Date 10/23/2012 Page 1 Of 1

PROJECT ID: Fish Lake Rehab
REPORT TO COMPANY: Washington Department of Fish and Wildlife (WDFW)
PROJECT MANAGER: Randy Osborne
ADDRESS: 2315 N. Discovery Place
Spokane Valley, WA 99216
PHONE: (509) 892-1001 Ext. 302 FAX: (509) 921-2441
P.O. NUMBER: 54853 E-MAIL: randall.osborne@dfw.wa.gov
INVOICE TO COMPANY: WDFW
ATTENTION: Randy Osborne
ADDRESS: 2315 N. Discovery Place
Spokane Valley, WA 99216

ANALYSIS REQUESTED / OTHER (Specify)

	SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM ☐	PCB ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	N-methylpyrrolidine							NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1.	1-5	10/23/12	9:00 AM	W	1							X																5	
2.												X																	
3.												X																	
4.															X														
5.																					X								
6.																													
7.																													
8.																													
9.																													
10.																													

LABORATORY COPY

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Randall Osborne, WDFW, 10/23/12 11:45am
   Received By:
2. Relinquished By:
   Received By: Shawn Robinson ALS 10/24/12 10:25

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: 10 (Standard) 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis: 5 (Standard) 3 1 SAME DAY

OTHER:
Specify:

* Turnaround requests less

December 4, 2012

Mr. Randy Osborne
Washington State Dept of Fish and Wildlife
2315 N. Discovery Pl.
Spokane Valley, WA 99216

Dear Mr. Osborne,

On November 21st, 1 sample was received by our laboratory and assigned our laboratory project number EV12110114. The project was identified as your Fish Lake Rehab. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 2315 N. Discovery Pl. Spokane Valley, WA 99216	DATE: ALS JOB#: ALS SAMPLE#:	12/4/2012 EV12110114 -01
CLIENT CONTACT:	Randy Osborne	DATE RECEIVED:	11/21/2012
CLIENT PROJECT:	Fish Lake Rehab	COLLECTION DATE:	11/20/2012 8:30:00 AM
CLIENT SAMPLE ID	1 - 5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	11/29/2012	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Acetone	EPA-8260	U	25	1	UG/L	11/29/2012	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	11/29/2012	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 2315 N. Discovery Pl. Spokane Valley, WA 99216	DATE: ALS JOB#: ALS SAMPLE#:	12/4/2012 EV12110114 -01
CLIENT CONTACT:	Randy Osborne	DATE RECEIVED:	11/21/2012
CLIENT PROJECT:	Fish Lake Rehab	COLLECTION DATE:	11/20/2012 8:30:00 AM
CLIENT SAMPLE ID	1 - 5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	11/29/2012	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	11/29/2012	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 2315 N. Discovery Pl. Spokane Valley, WA 99216	DATE: ALS JOB#: ALS SAMPLE#:	12/4/2012 EV12110114 -01
CLIENT CONTACT:	Randy Osborne	DATE RECEIVED:	11/21/2012
CLIENT PROJECT:	Fish Lake Rehab	COLLECTION DATE:	11/20/2012 8:30:00 AM
CLIENT SAMPLE ID	1 - 5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	11/27/2012	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	11/27/2012	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	11/27/2012	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP

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CLIENT SAMPLE ID	1 - 5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	11/27/2012	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
3,3'-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
n-Methyl 2-Pyrrolidone	EPA-8270M	**2.1**	0.050	1	UG/L	11/30/2012	ALSL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**99.8**	11/29/2012	GAP
Toluene-d8	EPA-8260	**92.8**	11/29/2012	GAP
4-Bromofluorobenzene	EPA-8260	**99.0**	11/29/2012	GAP
2-Fluorophenol	EPA-8270	**53.4**	11/27/2012	LAP
Phenol-d5	EPA-8270	**36.7**	11/27/2012	LAP

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CLIENT SAMPLE ID	1 - 5	WDOE ACCREDITATION:	C601

DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
Nitrobenzene-d5	EPA-8270	**78.6**	11/27/2012	LAP
2-Fluorobiphenyl	EPA-8270	**59.2**	11/27/2012	LAP
2,4,6-Tribromophenol	EPA-8270	**81.3**	11/27/2012	LAP
Terphenyl-d14	EPA-8270	**102**	11/27/2012	LAP

U - Analyte analyzed for but not detected at level above reporting limit.

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CLIENT CONTACT:	Randy Osborne		
CLIENT PROJECT:	Fish Lake Rehab		

LABORATORY BLANK RESULTS

MB-112912W - Batch 3283 - Water by EPA-8260

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	11/29/2012	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Acetone	EPA-8260	U	25	1	UG/L	11/29/2012	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	11/29/2012	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP

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CLIENT CONTACT:	Randy Osborne		
CLIENT PROJECT:	Fish Lake Rehab		

LABORATORY BLANK RESULTS

MB-112912W - Batch 3283 - Water by EPA-8260

1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	11/29/2012	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	11/29/2012	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP

MB-112712W - Batch 3278 - Water by EPA-8270

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Pyridine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT: Washington State Dept of Fish and Wildlife
2315 N. Discovery Pl.
Spokane Valley, WA 99216

DATE: 12/4/2012
ALS SDG#: EV12110114
WDOE ACCREDITATION: C601

CLIENT CONTACT: Randy Osborne
CLIENT PROJECT: Fish Lake Rehab

LABORATORY BLANK RESULTS

MB-112712W - Batch 3278 - Water by EPA-8270

1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	11/27/2012	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	11/27/2012	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	11/27/2012	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 2315 N. Discovery Pl. Spokane Valley, WA 99216	DATE: ALS SDG#: WDOE ACCREDITATION:	12/4/2012 EV12110114 C601
CLIENT CONTACT:	Randy Osborne		
CLIENT PROJECT:	Fish Lake Rehab		

LABORATORY BLANK RESULTS

MB-112712W - Batch 3278 - Water by EPA-8270

Diethylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	11/27/2012	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
3,3'-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP

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CLIENT: Washington State Dept of Fish and Wildlife
2315 N. Discovery Pl.
Spokane Valley, WA 99216

DATE: 12/4/2012
ALS SDG#: EV12110114
WDOE ACCREDITATION: C601

CLIENT CONTACT: Randy Osborne
CLIENT PROJECT: Fish Lake Rehab

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 3283 - Water by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	86.5			11/29/2012	GAP
1,1-Dichloroethene - BSD	EPA-8260	84.7	2		11/29/2012	GAP
Benzene - BS	EPA-8260	94.6			11/29/2012	GAP
Benzene - BSD	EPA-8260	90.9	4		11/29/2012	GAP
Trichloroethene - BS	EPA-8260	101			11/29/2012	GAP
Trichloroethene - BSD	EPA-8260	95.5	5		11/29/2012	GAP
Toluene - BS	EPA-8260	102			11/29/2012	GAP
Toluene - BSD	EPA-8260	96.5	6		11/29/2012	GAP
Chlorobenzene - BS	EPA-8260	96.1			11/29/2012	GAP
Chlorobenzene - BSD	EPA-8260	93.6	3		11/29/2012	GAP

ALS Test Batch ID: 3278 - Water by EPA-8270

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Phenol - BS	EPA-8270	29.8			11/27/2012	LAP
Phenol - BSD	EPA-8270	32.3	8		11/27/2012	LAP
2-Chlorophenol - BS	EPA-8270	95.6			11/27/2012	LAP
2-Chlorophenol - BSD	EPA-8270	92.4	3		11/27/2012	LAP
1,4-Dichlorobenzene - BS	EPA-8270	83.4			11/27/2012	LAP
1,4-Dichlorobenzene - BSD	EPA-8270	73.7	12		11/27/2012	LAP
N-Nitroso-Di-N-Propylamine - BS	EPA-8270	84.8			11/27/2012	LAP
N-Nitroso-Di-N-Propylamine - BSD	EPA-8270	92.7	9		11/27/2012	LAP
1,2,4-Trichlorobenzene - BS	EPA-8270	80.9			11/27/2012	LAP
1,2,4-Trichlorobenzene - BSD	EPA-8270	72.4	11		11/27/2012	LAP
4-Chloro-3-Methylphenol - BS	EPA-8270	107			11/27/2012	LAP
4-Chloro-3-Methylphenol - BSD	EPA-8270	102	4		11/27/2012	LAP
Acenaphthene - BS	EPA-8270	92.6			11/27/2012	LAP
Acenaphthene - BSD	EPA-8270	95.1	3		11/27/2012	LAP
4-Nitrophenol - BS	EPA-8270	23.5			11/27/2012	LAP
4-Nitrophenol - BSD	EPA-8270	28.3	19		11/27/2012	LAP
2,4-Dinitrotoluene - BS	EPA-8270	94.2			11/27/2012	LAP
2,4-Dinitrotoluene - BSD	EPA-8270	98.7	5		11/27/2012	LAP
Pentachlorophenol - BS	EPA-8270	114			11/27/2012	LAP
Pentachlorophenol - BSD	EPA-8270	106	7		11/27/2012	LAP
Pyrene - BS	EPA-8270	116			11/27/2012	LAP
Pyrene - BSD	EPA-8270	120	4		11/27/2012	LAP

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CERTIFICATE OF ANALYSIS

APPROVED BY

Laboratory Director

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Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EY12110114

Date _____ Page _____ Of _____

PROJECT ID: FISH LAKE REHAB
REPORT TO COMPANY: Washington Dept. of Fish and Wildlife (WDFW)
PROJECT MANAGER: Randy Osborne
ADDRESS: 2315 N. Discovery Pl.
Spokane Valley, WA 99216
PHONE: (509) 892-1001 x302 FAX: (509) 921-2441
P.O. NUMBER: 54853 E-MAIL: randall.osborne@dfw.wa.gov
INVOICE TO COMPANY: WDFW
ATTENTION: Randy Osborne
ADDRESS: 2315 N. Discovery Pl.
Spokane Valley, WA 99216

ANALYSIS REQUESTED / OTHER (Specify)

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM ☐	PCB ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	N-methylpyrolidone						NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. 1-5	11/20/12	08:30	W	1							X															5	(4)
2.											X																
3.											X																
4.														X													
5.																				X							
6.																											
7.																											
8.																											
9.																											
10.																											

LABORATORY COPY

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):
1. Relinquished By: Randall Osborne, WDFW 11/20/12 09:00
Received By:
2. Relinquished By:
Received By: Shawn Robana ALS 11/21/12 9:55

TURNAROUND REQUESTED in Business Days*
Organic, Metals & Inorganic Analysis: 10 (Standard) 5 3 2 1 SAME DAY
Fuels & Hydrocarbon Analysis: 5 (Standard) 3 1 SAME DAY
OTHER: Specify:

* Turnaround request less than standard may incur Rush Charges

November 2, 2012

Mr. Chad Jackson
Washington Dept. of Fish and Wildlife
1550 Alder St NW
Ephrata, WA 98823

Dear Mr. Jackson,

On October 26th, 1 sample was received by our laboratory and assigned our laboratory project number EV12100169. The project was identified as your Burke Lake. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington Dept. of Fish and Wildlife 1550 Alder St NW Ephrata, WA 98823	DATE: ALS JOB#: ALS SAMPLE#:	11/2/2012 EV12100169 -01
CLIENT CONTACT:	Chad Jackson	DATE RECEIVED:	10/26/2012
CLIENT PROJECT:	Burke Lake	COLLECTION DATE:	10/25/2012 10:00:00 AM
CLIENT SAMPLE ID	A through E	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	11/01/2012	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Acetone	EPA-8260	U	25	1	UG/L	11/01/2012	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	11/01/2012	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	11/01/2012	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	11/01/2012	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Trichloroethene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	11/01/2012	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	11/01/2012	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	11/01/2012	GAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington Dept. of Fish and Wildlife 1550 Alder St NW Ephrata, WA 98823	DATE: ALS JOB#: ALS SAMPLE#:	11/2/2012 EV12100169 -01
CLIENT CONTACT:	Chad Jackson	DATE RECEIVED:	10/26/2012
CLIENT PROJECT:	Burke Lake	COLLECTION DATE:	10/25/2012 10:00:00 AM
CLIENT SAMPLE ID	A through E	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	11/01/2012	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	11/01/2012	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/01/2012	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington Dept. of Fish and Wildlife 1550 Alder St NW Ephrata, WA 98823	DATE: ALS JOB#: ALS SAMPLE#:	11/2/2012 EV12100169 -01
CLIENT CONTACT:	Chad Jackson	DATE RECEIVED:	10/26/2012
CLIENT PROJECT:	Burke Lake	COLLECTION DATE:	10/25/2012 10:00:00 AM
CLIENT SAMPLE ID	A through E	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	10/31/2012	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	10/31/2012	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	10/31/2012	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP

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DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	10/31/2012	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
3,3'-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
n-Methyl 2-Pyrrolidone	EPA-8270M	**0.66**	0.050	1	UG/L	10/31/2012	ALSL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**109**	11/01/2012	GAP
Toluene-d8	EPA-8260	**94.7**	11/01/2012	GAP
4-Bromofluorobenzene	EPA-8260	**104**	11/01/2012	GAP
2-Fluorophenol	EPA-8270	**58.4**	10/31/2012	LAP
Phenol-d5	EPA-8270	**37.0**	10/31/2012	LAP
Nitrobenzene-d5	EPA-8270	**113**	10/31/2012	LAP
2-Fluorobiphenyl	EPA-8270	**83.4**	10/31/2012	LAP
2,4,6-Tribromophenol	EPA-8270	**113**	10/31/2012	LAP
Terphenyl-d14	EPA-8270	**106**	10/31/2012	LAP

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CLIENT PROJECT:	Burke Lake	COLLECTION DATE:	10/25/2012 10:00:00 AM
CLIENT SAMPLE ID	A through E	WDOE ACCREDITATION:	C601

DATA RESULTS

U - Analyte analyzed for but not detected at level above reporting limit.

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CLIENT CONTACT:	Chad Jackson		
CLIENT PROJECT:	Burke Lake		

LABORATORY BLANK RESULTS

MB-103012W - Batch 3199 - Water by EPA-8260

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	10/30/2012	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Acetone	EPA-8260	U	25	1	UG/L	10/30/2012	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	10/30/2012	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	10/30/2012	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	10/30/2012	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Trichloroethene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	10/30/2012	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	10/30/2012	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	10/30/2012	GAP

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CLIENT CONTACT:	Chad Jackson		
CLIENT PROJECT:	Burke Lake		

LABORATORY BLANK RESULTS

MB-103012W - Batch 3199 - Water by EPA-8260

Chlorobenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	10/30/2012	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	10/30/2012	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP

MB-103112W - Batch 3218 - Water by EPA-8270

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Pyridine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP

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CLIENT:	Washington Dept. of Fish and Wildlife 1550 Alder St NW Ephrata, WA 98823	DATE: ALS SDG#: WDOE ACCREDITATION:	11/2/2012 EV12100169 C601
CLIENT CONTACT:	Chad Jackson		
CLIENT PROJECT:	Burke Lake		

LABORATORY BLANK RESULTS

MB-103112W - Batch 3218 - Water by EPA-8270

Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	10/31/2012	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	10/31/2012	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	10/31/2012	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington Dept. of Fish and Wildlife 1550 Alder St NW Ephrata, WA 98823	DATE: ALS SDG#: WDOE ACCREDITATION:	11/2/2012 EV12100169 C601
CLIENT CONTACT:	Chad Jackson		
CLIENT PROJECT:	Burke Lake		

LABORATORY BLANK RESULTS

MB-103112W - Batch 3218 - Water by EPA-8270

4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	10/31/2012	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
3,3'-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington Dept. of Fish and Wildlife 1550 Alder St NW Ephrata, WA 98823	DATE: ALS SDG#: WDOE ACCREDITATION:	11/2/2012 EV12100169 C601
CLIENT CONTACT:	Chad Jackson		
CLIENT PROJECT:	Burke Lake		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 3199 - Water by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	**98.5**			10/30/2012	GAP
1,1-Dichloroethene - BSD	EPA-8260	**111**	**12**		10/30/2012	GAP
Benzene - BS	EPA-8260	**96.5**			10/30/2012	GAP
Benzene - BSD	EPA-8260	**105**	**9**		10/30/2012	GAP
Trichloroethene - BS	EPA-8260	**98.7**			10/30/2012	GAP
Trichloroethene - BSD	EPA-8260	**107**	**8**		10/30/2012	GAP
Toluene - BS	EPA-8260	**101**			10/30/2012	GAP
Toluene - BSD	EPA-8260	**111**	**10**		10/30/2012	GAP
Chlorobenzene - BS	EPA-8260	**95.8**			10/30/2012	GAP
Chlorobenzene - BSD	EPA-8260	**104**	**8**		10/30/2012	GAP

ALS Test Batch ID: 3218 - Water by EPA-8270

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Phenol - BS	EPA-8270	**27.3**			10/31/2012	LAP
Phenol - BSD	EPA-8270	**30.0**	**9**		10/31/2012	LAP
2-Chlorophenol - BS	EPA-8270	**80.9**			10/31/2012	LAP
2-Chlorophenol - BSD	EPA-8270	**88.2**	**9**		10/31/2012	LAP
1,4-Dichlorobenzene - BS	EPA-8270	**65.1**			10/31/2012	LAP
1,4-Dichlorobenzene - BSD	EPA-8270	**77.6**	**18**		10/31/2012	LAP
N-Nitroso-Di-N-Propylamine - BS	EPA-8270	**103**			10/31/2012	LAP
N-Nitroso-Di-N-Propylamine - BSD	EPA-8270	**111**	**7**		10/31/2012	LAP
1,2,4-Trichlorobenzene - BS	EPA-8270	**69.8**			10/31/2012	LAP
1,2,4-Trichlorobenzene - BSD	EPA-8270	**83.5**	**18**		10/31/2012	LAP
4-Chloro-3-Methylphenol - BS	EPA-8270	**83.7**			10/31/2012	LAP
4-Chloro-3-Methylphenol - BSD	EPA-8270	**90.1**	**7**		10/31/2012	LAP
Acenaphthene - BS	EPA-8270	**94.5**			10/31/2012	LAP
Acenaphthene - BSD	EPA-8270	**105**	**10**		10/31/2012	LAP
4-Nitrophenol - BS	EPA-8270	**23.8**			10/31/2012	LAP
4-Nitrophenol - BSD	EPA-8270	**25.9**	**8**		10/31/2012	LAP
2,4-Dinitrotoluene - BS	EPA-8270	**96.1**			10/31/2012	LAP
2,4-Dinitrotoluene - BSD	EPA-8270	**106**	**10**		10/31/2012	LAP
Pentachlorophenol - BS	EPA-8270	**90.7**			10/31/2012	LAP
Pentachlorophenol - BSD	EPA-8270	**97.9**	**8**		10/31/2012	LAP
Pyrene - BS	EPA-8270	**106**			10/31/2012	LAP
Pyrene - BSD	EPA-8270	**121**	**12**		10/31/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington Dept. of Fish and Wildlife 1550 Alder St NW Ephrata, WA 98823	DATE: ALS SDG#: WDOE ACCREDITATION:	11/2/2012 EV12100169 C601
CLIENT CONTACT:	Chad Jackson		
CLIENT PROJECT:	Burke Lake		

MATRIX SPIKE RESULTS

ALS Test Batch ID: 3199 - Water by EPA-8260

Parent Sample: BATCH QC

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - MS	EPA-8260	**115**			10/31/2012	GAP
1,1-Dichloroethene - MSD	EPA-8260	**122**	**6**		10/31/2012	GAP
Benzene - MS	EPA-8260	**104**			10/31/2012	GAP
Benzene - MSD	EPA-8260	**108**	**4**		10/31/2012	GAP
Trichloroethene - MS	EPA-8260	**103**			10/31/2012	GAP
Trichloroethene - MSD	EPA-8260	**108**	**5**		10/31/2012	GAP
Toluene - MS	EPA-8260	**109**			10/31/2012	GAP
Toluene - MSD	EPA-8260	**114**	**5**		10/31/2012	GAP
Chlorobenzene - MS	EPA-8260	**103**			10/31/2012	GAP
Chlorobenzene - MSD	EPA-8260	**108**	**5**		10/31/2012	GAP

APPROVED BY

Laboratory Director

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Everett, WA 98208
Phone (425) 356-2600
(425) 356-2626 Fax
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Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV12100169

Date 10/25/12 Page 1 Of 1

PROJECT ID: Burke Lake
REPORT TO COMPANY: WDFW
PROJECT MANAGER: Chad Jackson
ADDRESS: 1550 Alder St NW
Moses Lake, WA 98837
PHONE: (509)754-4624 FAX:
P.O. NUMBER: E-MAIL: Chad.Jackson@dfw.wa.gov
INVOICE TO COMPANY: WDFW
ATTENTION: Bruce Bolding
ADDRESS: 600 Capital Way N
Olympia, WA 98501-1091

ANALYSIS REQUESTED / OTHER (Specify)

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM ☐	PCB ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	N-Methylpyrrolidone						NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. A through E	10/25/12	1000	H_2O	1							X			X						X							
2.																											
3.																											
4.																											
5.																											
6.																											
7.																											
8.																											
9.																											
10.																											

LABORATORY COPY

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Chad Jackson, WDFW, [illegible], 10/25/12
   Received By:
2. Relinquished By:
   Received By: Shawn Robinson ALS 10/26/12 10:15

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: 10 (Standard) 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis: 5 (Standard) 3 1 SAME DAY

OTHER: Specify:

* Turnaround request less than standard may incur Rush Charges

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Everett, WA 98208
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Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV12100169

Date 10/25/12 Page 1 Of 1

PROJECT ID: Burke Lake
REPORT TO COMPANY: WDFW
PROJECT MANAGER: Chad Jackson
ADDRESS: 1550 Alder St NW
Moses Lake, WA 98837
PHONE: (509)754-4624 FAX:
P.O. NUMBER: E-MAIL: Chad.Jackson@dfw.wa.gov
INVOICE TO COMPANY: WDFW
ATTENTION: Bruce Bording
ADDRESS: 600 Capital Way N
Olympia, WA 98501-1091

ANALYSIS REQUESTED / OTHER (Specify)

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270/SIM ☐	PCB ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	N-Methylpyrrolidone						NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. A through E	10/25/12	1000	H_2O	1							X			X						X							
2.																											
3.																											
4.																											
5.																											
6.																											
7.																											
8.																											
9.																											
10.																											

LABORATORY COPY

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):
1. Relinquished By: Chad Jackson, WDFW, [illegible], 10/25/12
Received By:
2. Relinquished By:
Received By: Shawn Robinson ALS 10/26/12 10:15

TURNAROUND REQUESTED in Business Days*
Organic, Metals & Inorganic Analysis: 10 (Standard) 5 3 2 1 SAME DAY
Fuels & Hydrocarbon Analysis: 5 (Standard) 3 1 SAME DAY
OTHER:
Specify:

* Turnaround request less than standard may incur Rush Charges

December 12, 2012

Mr. Chad Jackson
Washington Dept. of Fish and Wildlife
1550 Alder St NW
Ephrata, WA 98823

Dear Mr. Jackson,

On November 29th, 1 sample was received by our laboratory and assigned our laboratory project number EV12110152. The project was identified as your Burke Lake. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington Dept. of Fish and Wildlife 1550 Alder St NW Ephrata, WA 98823	DATE:	12/12/2012
		ALS JOB#:	EV12110152
		ALS SAMPLE#:	-01
CLIENT CONTACT:	Chad Jackson	DATE RECEIVED:	11/29/2012
CLIENT PROJECT:	Burke Lake	COLLECTION DATE:	11/28/2012 9:00:00 AM
CLIENT SAMPLE ID	B1 - B5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	12/04/2012	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Acetone	EPA-8260	U	25	1	UG/L	12/04/2012	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	12/04/2012	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	12/04/2012	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	12/04/2012	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Trichloroethene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	12/04/2012	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	12/04/2012	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	12/04/2012	GAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington Dept. of Fish and Wildlife 1550 Alder St NW Ephrata, WA 98823	DATE: ALS JOB#: ALS SAMPLE#:	12/12/2012 EV12110152 -01
CLIENT CONTACT:	Chad Jackson	DATE RECEIVED:	11/29/2012
CLIENT PROJECT:	Burke Lake	COLLECTION DATE:	11/28/2012 9:00:00 AM
CLIENT SAMPLE ID	B1 - B5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	12/04/2012	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	12/04/2012	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/04/2012	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington Dept. of Fish and Wildlife 1550 Alder St NW Ephrata, WA 98823	DATE: ALS JOB#: ALS SAMPLE#:	12/12/2012 EV12110152 -01
CLIENT CONTACT:	Chad Jackson	DATE RECEIVED:	11/29/2012
CLIENT PROJECT:	Burke Lake	COLLECTION DATE:	11/28/2012 9:00:00 AM
CLIENT SAMPLE ID	B1 - B5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	12/04/2012	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	12/04/2012	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	12/04/2012	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington Dept. of Fish and Wildlife 1550 Alder St NW Ephrata, WA 98823	DATE: ALS JOB#: ALS SAMPLE#:	12/12/2012 EV12110152 -01
CLIENT CONTACT:	Chad Jackson	DATE RECEIVED:	11/29/2012
CLIENT PROJECT:	Burke Lake	COLLECTION DATE:	11/28/2012 9:00:00 AM
CLIENT SAMPLE ID	B1 - B5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	12/04/2012	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
3,3'-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	12/04/2012	LAP
n-Methyl 2-Pyrrolidone	EPA-8270M	**0.46**	0.020	1	UG/L	12/12/2012	ALSL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**105**	12/04/2012	GAP
Toluene-d8	EPA-8260	**92.4**	12/04/2012	GAP
4-Bromofluorobenzene	EPA-8260	**94.1**	12/04/2012	GAP
2-Fluorophenol	EPA-8270	**49.3**	12/04/2012	LAP
Phenol-d5	EPA-8270	**30.5**	12/04/2012	LAP
Nitrobenzene-d5	EPA-8270	**103**	12/04/2012	LAP
2-Fluorobiphenyl	EPA-8270	**56.1**	12/04/2012	LAP
2,4,6-Tribromophenol	EPA-8270	**90.3**	12/04/2012	LAP
Terphenyl-d14	EPA-8270	**143 GS6**	12/04/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington Dept. of Fish and Wildlife 1550 Alder St NW Ephrata, WA 98823	DATE: ALS JOB#: ALS SAMPLE#:	12/12/2012 EV12110152 -01
CLIENT CONTACT:	Chad Jackson	DATE RECEIVED:	11/29/2012
CLIENT PROJECT:	Burke Lake	COLLECTION DATE:	11/28/2012 9:00:00 AM
CLIENT SAMPLE ID	B1 - B5	WDOE ACCREDITATION:	C601

DATA RESULTS

U - Analyte analyzed for but not detected at level above reporting limit.
GS6 - Surrogate outside of control limits. Single surrogate outlier per fraction is acceptable as per Method 8270D.

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington Dept. of Fish and Wildlife 1550 Alder St NW Ephrata, WA 98823	DATE: ALS SDG#: WDOE ACCREDITATION:	12/12/2012 EV12110152 C601
CLIENT CONTACT:	Chad Jackson		
CLIENT PROJECT:	Burke Lake		

LABORATORY BLANK RESULTS

MB-112912W2 - Batch 3297 - Water by EPA-8260

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	11/29/2012	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Acetone	EPA-8260	U	25	1	UG/L	11/29/2012	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	11/29/2012	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	11/29/2012	GAP

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CERTIFICATE OF ANALYSIS

CLIENT: Washington Dept. of Fish and Wildlife
1550 Alder St NW
Ephrata, WA 98823

CLIENT CONTACT: Chad Jackson
CLIENT PROJECT: Burke Lake

DATE: 12/12/2012
ALS SDG#: EV12110152
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-112912W2 - Batch 3297 - Water by EPA-8260

Chlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	11/29/2012	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
P-isopropyltoluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP

MB-112712W - Batch 3278 - Water by EPA-8270

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Pyridine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington Dept. of Fish and Wildlife 1550 Alder St NW Ephrata, WA 98823	DATE: ALS SDG#: WDOE ACCREDITATION:	12/12/2012 EV12110152 C601
CLIENT CONTACT:	Chad Jackson		
CLIENT PROJECT:	Burke Lake		

LABORATORY BLANK RESULTS

MB-112712W - Batch 3278 - Water by EPA-8270

Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	11/27/2012	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	11/27/2012	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	11/27/2012	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington Dept. of Fish and Wildlife 1550 Alder St NW Ephrata, WA 98823	DATE: ALS SDG#: WDOE ACCREDITATION:	12/12/2012 EV12110152 C601
CLIENT CONTACT:	Chad Jackson		
CLIENT PROJECT:	Burke Lake		

LABORATORY BLANK RESULTS

MB-112712W - Batch 3278 - Water by EPA-8270

4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	11/27/2012	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
3,3'-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington Dept. of Fish and Wildlife 1550 Alder St NW Ephrata, WA 98823	DATE: ALS SDG#: WDOE ACCREDITATION:	12/12/2012 EV12110152 C601
CLIENT CONTACT:	Chad Jackson		
CLIENT PROJECT:	Burke Lake		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 3297 - Water by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	**100**			11/29/2012	GAP
1,1-Dichloroethene - BSD	EPA-8260	**96.5**	**4**		11/29/2012	GAP
Benzene - BS	EPA-8260	**114**			11/29/2012	GAP
Benzene - BSD	EPA-8260	**107**	**7**		11/29/2012	GAP
Trichloroethene - BS	EPA-8260	**107**			11/29/2012	GAP
Trichloroethene - BSD	EPA-8260	**101**	**6**		11/29/2012	GAP
Toluene - BS	EPA-8260	**103**			11/29/2012	GAP
Toluene - BSD	EPA-8260	**97.4**	**5**		11/29/2012	GAP
Chlorobenzene - BS	EPA-8260	**101**			11/29/2012	GAP
Chlorobenzene - BSD	EPA-8260	**98.9**	**3**		11/29/2012	GAP

ALS Test Batch ID: 3278 - Water by EPA-8270

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Phenol - BS	EPA-8270	**29.8**			11/27/2012	LAP
Phenol - BSD	EPA-8270	**32.3**	**8**		11/27/2012	LAP
2-Chlorophenol - BS	EPA-8270	**95.6**			11/27/2012	LAP
2-Chlorophenol - BSD	EPA-8270	**92.4**	**3**		11/27/2012	LAP
1,4-Dichlorobenzene - BS	EPA-8270	**83.4**			11/27/2012	LAP
1,4-Dichlorobenzene - BSD	EPA-8270	**73.7**	**12**		11/27/2012	LAP
N-Nitroso-Di-N-Propylamine - BS	EPA-8270	**84.8**			11/27/2012	LAP
N-Nitroso-Di-N-Propylamine - BSD	EPA-8270	**92.7**	**9**		11/27/2012	LAP
1,2,4-Trichlorobenzene - BS	EPA-8270	**80.9**			11/27/2012	LAP
1,2,4-Trichlorobenzene - BSD	EPA-8270	**72.4**	**11**		11/27/2012	LAP
4-Chloro-3-Methylphenol - BS	EPA-8270	**107**			11/27/2012	LAP
4-Chloro-3-Methylphenol - BSD	EPA-8270	**102**	**4**		11/27/2012	LAP
Acenaphthene - BS	EPA-8270	**92.6**			11/27/2012	LAP
Acenaphthene - BSD	EPA-8270	**95.1**	**3**		11/27/2012	LAP
4-Nitrophenol - BS	EPA-8270	**23.5**			11/27/2012	LAP
4-Nitrophenol - BSD	EPA-8270	**28.3**	**19**		11/27/2012	LAP
2,4-Dinitrotoluene - BS	EPA-8270	**94.2**			11/27/2012	LAP
2,4-Dinitrotoluene - BSD	EPA-8270	**98.7**	**5**		11/27/2012	LAP
Pentachlorophenol - BS	EPA-8270	**114**			11/27/2012	LAP
Pentachlorophenol - BSD	EPA-8270	**106**	**7**		11/27/2012	LAP
Pyrene - BS	EPA-8270	**116**			11/27/2012	LAP
Pyrene - BSD	EPA-8270	**120**	**4**		11/27/2012	LAP

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CERTIFICATE OF ANALYSIS

APPROVED BY

Laboratory Director

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Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV12110152

Date 11/28/12 Page 1 Of 1

PROJECT ID: Burke Lake
REPORT TO COMPANY: WDFW
PROJECT MANAGER: Chad Jackson
ADDRESS: 1550 Alder St NW
Ephrata, WA 98823
PHONE: (509) 754-4624, x250 FAX:
P.O. NUMBER: E-MAIL: Chad.Jackson@dfw.wa.gov
INVOICE TO COMPANY: WDFW
ATTENTION: Bruce Balding
ADDRESS: 600 Capital Way North
Olympia, WA 98501-1091

ANALYSIS REQUESTED / OTHER (Specify)

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM ☐	PCB ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	N-Methylpyrrolidone						NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. B1-B5	11/28/12	0900	H2O	1							X			X						X							
2.																											
3.																											
4.																											
5.																											
6.																											
7.																											
8.																											
9.																											
10.																											

LABORATORY COPY

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):
1. Relinquished By: Chad Jackson | WDFW | 11-28-12 | 0950
Received By: Shawn Robinson ALS 11/29/12 3:00
2. Relinquished By:
Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: 10 (Standard) | 5 | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: 5 (Standard) | 3 | 1 | SAME DAY

OTHER:
Specify:

* Turnaround requested less than standard may incur Rush Charges

November 14, 2012

Mr. Bob Jateff
Washington State Dept of Fish and Wildlife
20268 Highway 20, Suite 4
Twisp, WA 98856

Dear Mr. Jateff,

On October 31st, 1 sample was received by our laboratory and assigned our laboratory project number EV12100190. The project was identified as your Little Beaver Lake. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 20268 Highway 20, Suite 4 Twisp, WA 98856	DATE: ALS JOB#: ALS SAMPLE#:	11/14/2012 EV12100190 -01
CLIENT CONTACT:	Bob Jateff	DATE RECEIVED:	10/31/2012
CLIENT PROJECT:	Little Beaver Lake	COLLECTION DATE:	10/30/2012 10:00:00 AM
CLIENT SAMPLE ID	1-5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	10/31/2012	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Acetone	EPA-8260	U	25	1	UG/L	10/31/2012	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	10/31/2012	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	10/31/2012	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	10/31/2012	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Trichloroethene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	10/31/2012	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	10/31/2012	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 20268 Highway 20, Suite 4 Twisp, WA 98856	DATE: ALS JOB#: ALS SAMPLE#:	11/14/2012 EV12100190 -01
CLIENT CONTACT:	Bob Jateff	DATE RECEIVED:	10/31/2012
CLIENT PROJECT:	Little Beaver Lake	COLLECTION DATE:	10/30/2012 10:00:00 AM
CLIENT SAMPLE ID	1-5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	10/31/2012	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	10/31/2012	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	10/31/2012	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Naphthalene	EPA-8260	**3.1**	2.0	1	UG/L	10/31/2012	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/31/2012	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 20268 Highway 20, Suite 4 Twisp, WA 98856	DATE: ALS JOB#: ALS SAMPLE#:	11/14/2012 EV12100190 -01
CLIENT CONTACT:	Bob Jateff	DATE RECEIVED:	10/31/2012
CLIENT PROJECT:	Little Beaver Lake	COLLECTION DATE:	10/30/2012 10:00:00 AM
CLIENT SAMPLE ID	1-5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	11/06/2012	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	11/06/2012	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	11/06/2012	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 20268 Highway 20, Suite 4 Twisp, WA 98856	DATE: ALS JOB#: ALS SAMPLE#:	11/14/2012 EV12100190 -01
CLIENT CONTACT:	Bob Jateff	DATE RECEIVED:	10/31/2012
CLIENT PROJECT:	Little Beaver Lake	COLLECTION DATE:	10/30/2012 10:00:00 AM
CLIENT SAMPLE ID	1-5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	11/06/2012	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
3,3'-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	11/06/2012	LAP
n-Methyl 2-Pyrrolidone	EPA-8270M	**99**	1.0	20	UG/L	11/12/2012	ALSL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**110**	10/31/2012	GAP
Toluene-d8	EPA-8260	**92.9**	10/31/2012	GAP
4-Bromofluorobenzene	EPA-8260	**98.9**	10/31/2012	GAP
2-Fluorophenol	EPA-8270	**41.5**	11/06/2012	LAP
Phenol-d5	EPA-8270	**27.4**	11/06/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 20268 Highway 20, Suite 4 Twisp, WA 98856	DATE: ALS JOB#: ALS SAMPLE#:	11/14/2012 EV12100190 -01
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CLIENT SAMPLE ID	1-5	WDOE ACCREDITATION:	C601

DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
Nitrobenzene-d5	EPA-8270	**85.1**	11/06/2012	LAP
2-Fluorobiphenyl	EPA-8270	**64.2**	11/06/2012	LAP
2,4,6-Tribromophenol	EPA-8270	**87.9**	11/06/2012	LAP
Terphenyl-d14	EPA-8270	**94.9**	11/06/2012	LAP

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT: Washington State Dept of Fish and Wildlife
20268 Highway 20, Suite 4
Twisp, WA 98856

DATE: 11/14/2012
ALS SDG#: EV12100190
WDOE ACCREDITATION: C601

CLIENT CONTACT: Bob Jateff
CLIENT PROJECT: Little Beaver Lake

LABORATORY BLANK RESULTS

MB-103012W - Batch 3199 - Water by EPA-8260

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	10/30/2012	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Acetone	EPA-8260	U	25	1	UG/L	10/30/2012	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	10/30/2012	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	10/30/2012	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	10/30/2012	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Trichloroethene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	10/30/2012	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	10/30/2012	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP

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CERTIFICATE OF ANALYSIS

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CLIENT CONTACT:	Bob Jateff		
CLIENT PROJECT:	Little Beaver Lake		

LABORATORY BLANK RESULTS

MB-103012W - Batch 3199 - Water by EPA-8260

1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	10/30/2012	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	10/30/2012	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	10/30/2012	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	10/30/2012	GAP

MB-103112W - Batch 3218 - Water by EPA-8270

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Pyridine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP

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CLIENT CONTACT:	Bob Jateff		
CLIENT PROJECT:	Little Beaver Lake		

LABORATORY BLANK RESULTS

MB-103112W - Batch 3218 - Water by EPA-8270

1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	10/31/2012	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	10/31/2012	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	10/31/2012	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT: Washington State Dept of Fish and Wildlife
20268 Highway 20, Suite 4
Twisp, WA 98856

DATE: 11/14/2012
ALS SDG#: EV12100190
WDOE ACCREDITATION: C601

CLIENT CONTACT: Bob Jateff
CLIENT PROJECT: Little Beaver Lake

LABORATORY BLANK RESULTS

MB-103112W - Batch 3218 - Water by EPA-8270

Diethylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	10/31/2012	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
3,3'-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	10/31/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 20268 Highway 20, Suite 4 Twisp, WA 98856	DATE: ALS SDG#: WDOE ACCREDITATION:	11/14/2012 EV12100190 C601
CLIENT CONTACT:	Bob Jateff		
CLIENT PROJECT:	Little Beaver Lake		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 3199 - Water by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	**98.5**			10/30/2012	GAP
1,1-Dichloroethene - BSD	EPA-8260	**111**	**12**		10/30/2012	GAP
Benzene - BS	EPA-8260	**96.5**			10/30/2012	GAP
Benzene - BSD	EPA-8260	**105**	**9**		10/30/2012	GAP
Trichloroethene - BS	EPA-8260	**98.7**			10/30/2012	GAP
Trichloroethene - BSD	EPA-8260	**107**	**8**		10/30/2012	GAP
Toluene - BS	EPA-8260	**101**			10/30/2012	GAP
Toluene - BSD	EPA-8260	**111**	**10**		10/30/2012	GAP
Chlorobenzene - BS	EPA-8260	**95.8**			10/30/2012	GAP
Chlorobenzene - BSD	EPA-8260	**104**	**8**		10/30/2012	GAP

ALS Test Batch ID: 3218 - Water by EPA-8270

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Phenol - BS	EPA-8270	**27.3**			10/31/2012	LAP
Phenol - BSD	EPA-8270	**30.0**	**9**		10/31/2012	LAP
2-Chlorophenol - BS	EPA-8270	**80.9**			10/31/2012	LAP
2-Chlorophenol - BSD	EPA-8270	**88.2**	**9**		10/31/2012	LAP
1,4-Dichlorobenzene - BS	EPA-8270	**65.1**			10/31/2012	LAP
1,4-Dichlorobenzene - BSD	EPA-8270	**77.6**	**18**		10/31/2012	LAP
N-Nitroso-Di-N-Propylamine - BS	EPA-8270	**103**			10/31/2012	LAP
N-Nitroso-Di-N-Propylamine - BSD	EPA-8270	**111**	**7**		10/31/2012	LAP
1,2,4-Trichlorobenzene - BS	EPA-8270	**69.8**			10/31/2012	LAP
1,2,4-Trichlorobenzene - BSD	EPA-8270	**83.5**	**18**		10/31/2012	LAP
4-Chloro-3-Methylphenol - BS	EPA-8270	**83.7**			10/31/2012	LAP
4-Chloro-3-Methylphenol - BSD	EPA-8270	**90.1**	**7**		10/31/2012	LAP
Acenaphthene - BS	EPA-8270	**94.5**			10/31/2012	LAP
Acenaphthene - BSD	EPA-8270	**105**	**10**		10/31/2012	LAP
4-Nitrophenol - BS	EPA-8270	**23.8**			10/31/2012	LAP
4-Nitrophenol - BSD	EPA-8270	**25.9**	**8**		10/31/2012	LAP
2,4-Dinitrotoluene - BS	EPA-8270	**96.1**			10/31/2012	LAP
2,4-Dinitrotoluene - BSD	EPA-8270	**106**	**10**		10/31/2012	LAP
Pentachlorophenol - BS	EPA-8270	**90.7**			10/31/2012	LAP
Pentachlorophenol - BSD	EPA-8270	**97.9**	**8**		10/31/2012	LAP
Pyrene - BS	EPA-8270	**106**			10/31/2012	LAP
Pyrene - BSD	EPA-8270	**121**	**12**		10/31/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 20268 Highway 20, Suite 4 Twisp, WA 98856	DATE: ALS SDG#: WDOE ACCREDITATION:	11/14/2012 EV12100190 C601
CLIENT CONTACT:	Bob Jateff		
CLIENT PROJECT:	Little Beaver Lake		

MATRIX SPIKE RESULTS

ALS Test Batch ID: 3199 - Water by EPA-8260

Parent Sample: **BATCH QC**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - MS	EPA-8260	**115**			10/31/2012	GAP
1,1-Dichloroethene - MSD	EPA-8260	**122**	**6**		10/31/2012	GAP
Benzene - MS	EPA-8260	**104**			10/31/2012	GAP
Benzene - MSD	EPA-8260	**108**	**4**		10/31/2012	GAP
Trichloroethene - MS	EPA-8260	**103**			10/31/2012	GAP
Trichloroethene - MSD	EPA-8260	**108**	**5**		10/31/2012	GAP
Toluene - MS	EPA-8260	**109**			10/31/2012	GAP
Toluene - MSD	EPA-8260	**114**	**5**		10/31/2012	GAP
Chlorobenzene - MS	EPA-8260	**103**			10/31/2012	GAP
Chlorobenzene - MSD	EPA-8260	**108**	**5**		10/31/2012	GAP

APPROVED BY

Laboratory Director

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(425) 356-2626 Fax
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Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV12100190

Date _____ Page _____ Of _____

PROJECT ID: Little Beaver Lake
REPORT TO COMPANY: WDFW
PROJECT MANAGER: Bob Jakeff
ADDRESS: 20268 Hwy 20
Twisp, WA. 98856
PHONE: 509-997-0316 FAX: 509-997-0072
P.O. NUMBER: E-MAIL: Robert.Jakeff@dfw.wa.gov
INVOICE TO COMPANY: WDFW
ATTENTION: Bob Jakeff
ADDRESS: 20268 Hwy 20
Twisp, WA. 98856

ANALYSIS REQUESTED / OTHER (Specify)

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM ☐	PCB ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	N-Methyl pyrrolidone						NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. 1-5	10/31/2012	1000	W	1							X			X						X							
2.																											
3.																											
4.																											
5.																											
6.																											
7.																											
8.																											
9.																											
10.																											

LABORATORY COPY

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):
1. Relinquished By: Robert Jakeff / WDFW / 10/31/2012 / 1200
Received By:
2. Relinquished By:
Received By: Shawn Robinson ALS 10/31/12 2:00

TURNAROUND REQUESTED in Business Days*
Organic, Metals & Inorganic Analysis: 10 (Standard) 5 3 2 1 SAME DAY
Fuels & Hydrocarbon Analysis: 5 (Standard) 3 1 SAME DAY
OTHER: Specify:

* Turnaround request less than standard may incur Rush Charges

December 20, 2012

Mr. Bob Jateff
Washington State Dept of Fish and Wildlife
20268 Highway 20, Suite 4
Twisp, WA 98856

Dear Mr. Jateff,

On November 27th, 1 sample was received by our laboratory and assigned our laboratory project number EV12110131. The project was identified as your Little Beaver Lake. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 20268 Highway 20, Suite 4 Twisp, WA 98856	DATE: ALS JOB#: ALS SAMPLE#:	12/20/2012 EV12110131 -01
CLIENT CONTACT:	Bob Jateff	DATE RECEIVED:	11/27/2012
CLIENT PROJECT:	Little Beaver Lake	COLLECTION DATE:	11/26/2012 12:00:00 PM
CLIENT SAMPLE ID	1 - 5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	11/29/2012	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Acetone	EPA-8260	U	25	1	UG/L	11/29/2012	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	11/29/2012	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 20268 Highway 20, Suite 4 Twisp, WA 98856	DATE: ALS JOB#: ALS SAMPLE#:	12/20/2012 EV12110131 -01
CLIENT CONTACT:	Bob Jateff	DATE RECEIVED:	11/27/2012
CLIENT PROJECT:	Little Beaver Lake	COLLECTION DATE:	11/26/2012 12:00:00 PM
CLIENT SAMPLE ID	1 - 5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	11/29/2012	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	11/29/2012	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 20268 Highway 20, Suite 4 Twisp, WA 98856	DATE: ALS JOB#: ALS SAMPLE#:	12/20/2012 EV12110131 -01
CLIENT CONTACT:	Bob Jateff	DATE RECEIVED:	11/27/2012
CLIENT PROJECT:	Little Beaver Lake	COLLECTION DATE:	11/26/2012 12:00:00 PM
CLIENT SAMPLE ID	1 - 5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	11/27/2012	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	11/27/2012	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	11/27/2012	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 20268 Highway 20, Suite 4 Twisp, WA 98856	DATE: ALS JOB#: ALS SAMPLE#:	12/20/2012 EV12110131 -01
CLIENT CONTACT:	Bob Jateff	DATE RECEIVED:	11/27/2012
CLIENT PROJECT:	Little Beaver Lake	COLLECTION DATE:	11/26/2012 12:00:00 PM
CLIENT SAMPLE ID	1 - 5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	11/27/2012	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
3,3'-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
n-Methyl 2-Pyrrolidone	EPA-8270M	**26**	0.20	4	UG/L	12/19/2012	ALSL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**99.4**	11/29/2012	GAP
Toluene-d8	EPA-8260	**91.2**	11/29/2012	GAP
4-Bromofluorobenzene	EPA-8260	**101**	11/29/2012	GAP
2-Fluorophenol	EPA-8270	**40.3**	11/27/2012	LAP
Phenol-d5	EPA-8270	**31.0**	11/27/2012	LAP

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CLIENT:	Washington State Dept of Fish and Wildlife 20268 Highway 20, Suite 4 Twisp, WA 98856	DATE: ALS JOB#: ALS SAMPLE#:	12/20/2012 EV12110131 -01
CLIENT CONTACT:	Bob Jateff	DATE RECEIVED:	11/27/2012
CLIENT PROJECT:	Little Beaver Lake	COLLECTION DATE:	11/26/2012 12:00:00 PM
CLIENT SAMPLE ID	1 - 5	WDOE ACCREDITATION:	C601

DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
Nitrobenzene-d5	EPA-8270	**99.7**	11/27/2012	LAP
2-Fluorobiphenyl	EPA-8270	**97.5**	11/27/2012	LAP
2,4,6-Tribromophenol	EPA-8270	**109**	11/27/2012	LAP
Terphenyl-d14	EPA-8270	**129**	11/27/2012	LAP

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT: Washington State Dept of Fish and Wildlife
20268 Highway 20, Suite 4
Twisp, WA 98856

DATE: 12/20/2012
ALS SDG#: EV12110131
WDOE ACCREDITATION: C601

CLIENT CONTACT: Bob Jateff
CLIENT PROJECT: Little Beaver Lake

LABORATORY BLANK RESULTS

MB-112912W - Batch 3283 - Water by EPA-8260

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	11/29/2012	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Acetone	EPA-8260	U	25	1	UG/L	11/29/2012	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	11/29/2012	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trichloroethene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 20268 Highway 20, Suite 4 Twisp, WA 98856	DATE: ALS SDG#: WDOE ACCREDITATION:	12/20/2012 EV12110131 C601
CLIENT CONTACT:	Bob Jateff		
CLIENT PROJECT:	Little Beaver Lake		

LABORATORY BLANK RESULTS

MB-112912W - Batch 3283 - Water by EPA-8260

1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	11/29/2012	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	11/29/2012	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	11/29/2012	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	11/29/2012	GAP

MB-112712W - Batch 3278 - Water by EPA-8270

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Pyridine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 20268 Highway 20, Suite 4 Twisp, WA 98856	DATE: ALS SDG#: WDOE ACCREDITATION:	12/20/2012 EV12110131 C601
CLIENT CONTACT:	Bob Jateff		
CLIENT PROJECT:	Little Beaver Lake		

LABORATORY BLANK RESULTS

MB-112712W - Batch 3278 - Water by EPA-8270

1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	11/27/2012	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	11/27/2012	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	11/27/2012	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP

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CLIENT CONTACT:	Bob Jateff		
CLIENT PROJECT:	Little Beaver Lake		

LABORATORY BLANK RESULTS

MB-112712W - Batch 3278 - Water by EPA-8270

Diethylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	11/27/2012	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
3,3'-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	11/27/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 20268 Highway 20, Suite 4 Twisp, WA 98856	DATE: ALS SDG#: WDOE ACCREDITATION:	12/20/2012 EV12110131 C601
CLIENT CONTACT:	Bob Jateff		
CLIENT PROJECT:	Little Beaver Lake		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 3283 - Water by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	**86.5**			11/29/2012	GAP
1,1-Dichloroethene - BSD	EPA-8260	**84.7**	**2**		11/29/2012	GAP
Benzene - BS	EPA-8260	**94.6**			11/29/2012	GAP
Benzene - BSD	EPA-8260	**90.9**	**4**		11/29/2012	GAP
Trichloroethene - BS	EPA-8260	**101**			11/29/2012	GAP
Trichloroethene - BSD	EPA-8260	**95.5**	**5**		11/29/2012	GAP
Toluene - BS	EPA-8260	**102**			11/29/2012	GAP
Toluene - BSD	EPA-8260	**96.5**	**6**		11/29/2012	GAP
Chlorobenzene - BS	EPA-8260	**96.1**			11/29/2012	GAP
Chlorobenzene - BSD	EPA-8260	**93.6**	**3**		11/29/2012	GAP

ALS Test Batch ID: 3278 - Water by EPA-8270

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Phenol - BS	EPA-8270	**29.8**			11/27/2012	LAP
Phenol - BSD	EPA-8270	**32.3**	**8**		11/27/2012	LAP
2-Chlorophenol - BS	EPA-8270	**95.6**			11/27/2012	LAP
2-Chlorophenol - BSD	EPA-8270	**92.4**	**3**		11/27/2012	LAP
1,4-Dichlorobenzene - BS	EPA-8270	**83.4**			11/27/2012	LAP
1,4-Dichlorobenzene - BSD	EPA-8270	**73.7**	**12**		11/27/2012	LAP
N-Nitroso-Di-N-Propylamine - BS	EPA-8270	**84.8**			11/27/2012	LAP
N-Nitroso-Di-N-Propylamine - BSD	EPA-8270	**92.7**	**9**		11/27/2012	LAP
1,2,4-Trichlorobenzene - BS	EPA-8270	**80.9**			11/27/2012	LAP
1,2,4-Trichlorobenzene - BSD	EPA-8270	**72.4**	**11**		11/27/2012	LAP
4-Chloro-3-Methylphenol - BS	EPA-8270	**107**			11/27/2012	LAP
4-Chloro-3-Methylphenol - BSD	EPA-8270	**102**	**4**		11/27/2012	LAP
Acenaphthene - BS	EPA-8270	**92.6**			11/27/2012	LAP
Acenaphthene - BSD	EPA-8270	**95.1**	**3**		11/27/2012	LAP
4-Nitrophenol - BS	EPA-8270	**23.5**			11/27/2012	LAP
4-Nitrophenol - BSD	EPA-8270	**28.3**	**19**		11/27/2012	LAP
2,4-Dinitrotoluene - BS	EPA-8270	**94.2**			11/27/2012	LAP
2,4-Dinitrotoluene - BSD	EPA-8270	**98.7**	**5**		11/27/2012	LAP
Pentachlorophenol - BS	EPA-8270	**114**			11/27/2012	LAP
Pentachlorophenol - BSD	EPA-8270	**106**	**7**		11/27/2012	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Washington State Dept of Fish and Wildlife 20268 Highway 20, Suite 4 Twisp, WA 98856	DATE: ALS SDG#: WDOE ACCREDITATION:	12/20/2012 EV12110131 C601
CLIENT CONTACT:	Bob Jateff		
CLIENT PROJECT:	Little Beaver Lake		

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Pyrene - BS	EPA-8270	**116**			11/27/2012	LAP
Pyrene - BSD	EPA-8270	**120**	**4**		11/27/2012	LAP

APPROVED BY

Laboratory Director

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(425) 356-2626 Fax
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV/211013/

Date _____ Page _____ Of _____

PROJECT ID: Little Beaver Lake
REPORT TO COMPANY: WDFW
PROJECT MANAGER: Bob Jateff
ADDRESS: 20268 Hwy 20
Twisp, Wa 98856
PHONE: 509-997-0316 FAX: 509-997-0072
P.O. NUMBER: E-MAIL: RobertoJateff@dfw.wa.gov
INVOICE TO COMPANY:
ATTENTION:
ADDRESS:

ANALYSIS REQUESTED / OTHER (Specify)

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM ☐	PCB ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	Nitrate/Nitrite							NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. 1-5	11/26/12	1200	W	1							X			X						X								
2.																												
3.																												
4.																												
5.																												
6.																												
7.																												
8.																												
9.																												
10.																												

LABORATORY COPY

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):
1. Relinquished By: Linda Oules / WDFW / 11-26-12 / 1430
Received By:
2. Relinquished By:
Received By: Shawn Robinson ALS 11/27/12 10:00

TURNAROUND REQUESTED in Business Days*
Organic, Metals & Inorganic Analysis: 10 (Standard) 5 3 2 1 SAME DAY
Fuels & Hydrocarbon Analysis: 5 (Standard) 3 1 SAME DAY
OTHER:
Specify:

* Turnaround request less than standard may incur Rush Charges

FSEIS ADDENDUM

WDFW LAKE REHABILITATION

PROJECT PROPOSALS, WITH COMMENTS AND REPLIES FOR

2012

State of Washington
DEPARTMENT OF FISH AND WILDLIFE
Mailing Address: 600 Capitol Way N - Olympia, Washington 98501-1091 - (360) 902-2200, TDD (360) 902-2207
Main Office location: Natural Resources Building - 1111 Washington Street SE - Olympia, WA

ADDENDUM TO FINAL SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENTS
Dated: August, 1992 and January, 2002

Name of FSEIS:

1. Lake and Stream Rehabilitation Final Supplemental Impact Statement (FEIS), 1992-1993 and
2. Lake and Stream Rehabilitation: Rotenone Use and Health Risks FSEIS, 2002

The FSEIS and FEIS are available on WDFW Web page:
http://wdfw.wa.gov/licensing/sepa/sepa_comment_docs.html

The document (FSEIS and FEIS) is available to be read at:
Washington Department of Fish and Wildlife-Natural Resources Building,
1111 Washington Street SE, Olympia, WA.
Monday-Friday 8:00am – 5:00pm

Description of Proposal: Rehabilitation of three lakes in eastern Washington (Burke Lake in Grant County, Little Beaver Lake in Okanogan County and Fish Lake in Spokane County), by the use of Rotenone, to improve fishing for game fish via the elimination of illegally stocked, prohibited, non-game, predator or competitor species of fish. The lakes will be restocked with either native westslope cutthroat trout or other trout species. The FSEIS applied to statewide coverage.

Proponent: Washington Department of Fish and Wildlife, 600 Capitol Way North, Olympia, Washington 98501-1091. Contact Person: Bruce Bolding 360-902-8417
bruce.bolding@dfw.wa.gov

Lead Agency: Washington Department of Fish and Wildlife

WDFW is providing updated information on this project that may be of interest to other agencies or the public. The updated information provided below does not substantially change the analysis of significant impacts in the existing environmental checklist.

The original Final Supplemental Environmental Impact Statement, dated August, 1992, was reviewed as a statewide proposal. Implementation of the FSEIS includes the following lakes for the **2012** season.

Location of Current Proposals:

Grant County
Burke Lake – Sections 14, 15, 23, Township 19 North, Range 23 East

Okanogan County
Little Beaver Lake – Section 30, Township 39 North, Range 30 East

Spokane County
Fish Lake – Section 4 & 5, Township 23 North, Range 42 East and Sections 32 and 33 Township 24 North, Range 42 East

Based on the original Final Supplemental Environmental Impact Statement (dated, 8/92), the additional Supplemental Environmental Impact Statement (dated, 1/02 and the updated information provided in this addendum, the lead agency has determined that a new threshold determination is not warranted.

We issued this Addendum according to state rules [2]. We will **not act on this proposal for 21 days** from the date of issue below. Agencies, affected tribes, and members of the public are invited to comment on this proposal. We must receive your comments within 21 days of the date of this letter. This means we must receive your comments by **August 14, 2012.**

You can submit your comments by email to SEPAdesk2@dfw.wa.gov , through the WDFW SEPA website comment link at http://www.wdfw.wa.gov/hab/sepa/sepa.htm, fax to (360) 902-2946, or mail to the address below. When you send us your comments, please provide the name of the proposal in your comment letter.

Responsible Official: Bob Zeigler
Position/Title: SEPA/NEPA Coordinator, Regulatory Services Section
Address: 600 Capitol Way North, Olympia, WA 98501

After the comment period closes, applicants may view the updated status of this proposal on the WDFW SEPA website: http://www.wdfw.wa.gov/hab/sepa/sepa.htm. Once the status is posted as final, applicants and permitees may take action on the proposal. When a proposal is modified or withdrawn, notice will be given in accordance with state law[1].

If you have questions about this action, please contact: Bob Zeigler **Phone:** (360) 902-2578 **Fax:** (360) 902-2946 or **email:** SEPAdesk2@dfw.wa.gov

DATE OF ISSUE: July 24, 2012 **SIGNATURE:** Bob Zeigler

SEPA Log Number: 12-055 add (Addendum to Lake and Stream Rehabilitation, FSEIS, 1992 and Lake and Stream Rehabilitation: Rotenone Use and Health Risks, FSEIS, 2002)

Oroville Sportsmens Club
PO Box 2382
Oroville, Wa.
98844

Washington Department of Fish and Wildlife
600 Capitol Way N.,
Olympia, WA
98501-1091

Email: SEPAdesk2@dfw.wa.gov

Re: written comments on the rehabilitation proposals for Little Beaver Lake (SEPA No. 12055)

The Oroville Sportsmens Club (OSC) would like to thank the Washington Department of Fish and Wildlife (WDFW) for this opportunity to provide written comments on the proposed rehabilitation for Little Beaver Lake. The OSC is in agreement with the WDFW on the fact that Yellow Perch do not belong in Little Beaver Lake. However we have the following concerns with the proposed Rotenone treatment and lake management plan.

We are quite disappointed with the public scoping and it gave the appearance that the WDFW was trying to sneak this one through the process without adequate local public involvement. The public meeting for Little Beaver Lake was advertised in the Local paper July 19th for a public meeting July 24th in Twisp. This location is a good two hour drive for most of the interested members. Upon complaining to the landowner (USFS) about the meeting location an additional meeting was set up in Tonasket. With the short notice the only way to know about it was word of mouth which leads to confusion on the meeting topic. Also we were told that there would be a 30 day comment period starting Aug 1st. In watching the WDFW SEPA page we see that it was not posted until the end of July with comments ending the Aug 14th. It appears that the WDFW has already made up their mind on the project and outside commits are not important nor wanted.

From the public meeting we were left with the impression that Little Beaver Lake was not the primary Lake for rehab in Okanogan County for this year and the WDFW was behind the power curve to complete the process this year. Little beaver Lake is connected to Big Beaver Lake by a culvert. Mr. Jateff thought that there were some fish barriers at the culvert that were keeping the perch out of Big Beaver. He avoided the question on what kind of survey was completed on Big Beaver Lake other than one day with a rod and reel. He stated that he was hoping that the treatment of Little Beaver would take care of the problem without treating Big Beaver Lake. Hope is not a strategy that OSC can support in the use of Rotenone. OSC is concerned that WDFW is trying to put Little Beaver on the 5 to 7 year Rehab plan like other lakes in Okanogan County and we are concerned about the cumulative effects of continued treatments with Rotenone every 5 to 7 years on the same lake.

Little Beaver lake is a spring feed lake that flows into Toroda creek. We understand that there are fish barriers that are keeping the Perch from spreading downstream to Toroda creek. However we have two concerns on Beaver creek: 1.) With an above average water year the

stream may not go underground before reaching Toroda Creek this fall as it has in past drier years and affect a much larger area that planned. 2.) With an out flow and being spring feed we are concerned that the Perch will be driven down Beaver Creek and escape the treatment only to return to the lake in reduced numbers.

We are disappointed that in the rush to treat Little Beaver Lake angler opportunity will be lost by not enacting a special rule allowing anglers the keep all they can catch. This is a waste of a valuable resource.

Little Beaver lake has been known as a location to catch quality Eastern Brook Trout for over 50 years. We are quite disappointed that the department has chosen not to restock the lake with Eastern Brook. Tiger Trout have been used in other states to help slow the growth of Perch populations. Please consider planting at least some Tiger trout if you are still unwilling to stock Eastern Brook back into Little Beaver.

OSC is still concerned about the health effects of Rotenone and the WDFW ability to keep current on all the research. WDFW has not demonstrated that they are keeping up with current science. Examples such as handing out old copies of questions and answers on Rotenone that have been copied several times and are out dated as admitted by your Biologist. Also in our recent letter on Fish Lake Rehap the response given to our question was from the American Fisheries Society on Parkinson's disease and Rotenone. It did not respond to long term risk or study that was referenced National Institute of Health Study (February, 2011). We agree that in the case of Little Beaver Lake the risk of exposure is limited to WDFW personnel and the mitigations in place should protect the public. Over 200 research papers can be found dated after the 2002 SEPA date and the WDFW has not updated the educational material to support their desire to continue using Rotenone.

We support the recommendation made at the Public meeting to close Little Beaver Lake in the winter to encourage winter carryover and return the lake to the quality trout lake that it was before it was opened year long.

We also support the recommendation that the WDFW pursue increasing the penalty for illegal planting of fish.

In conclusion we encourage the WDFW to explore all option for the control and or removal of Perch in little Beaver Lake. In our opinion the use of Rotenone is serious undertaking and should be well planned out. Available or left over Dingell-Johnson/Walop-Breaux (DJ/WB) funds should not be the reason to use Rotenone.

Thank you for your time and consideration,

/S/ Mike Daharsh

Mike Daharsh OSC President

State of Washington
Department of Fish and Wildlife

Mailing Address: 600 Capitol Way N, Olympia WA 98501-1091, (360) 902-2200, TDD (360) 902-2207
Main Office Location: Natural Resources Building, 1111 Washington Street SE, Olympia WA

August 27, 2012

Mr. Mike Daharsh
Oroville Sportsmen's Club
PO Box 2382
Oroville, Washington 98844

Dear Mr. Daharsh:

Thank you for your comments on behalf of the Okanogan Sportsmen Club (OSC) regarding the proposed rehabilitation of Little Beaver Lake in Okanogan County. The Washington Department of Fish and Wildlife (Department) also appreciates the OSC's support of the Department's efforts to eradicate yellow perch illegally introduced into Little Beaver Lake. Public outreach and education from groups like the OSC can help inform the general public on how illegal fish introductions can negatively affect recreational trout fishing. I will respond to your questions and comments in the order in which you wrote them in your letter.

The Department believes we have fully complied with our legal obligations for public notification of the Little Beaver Lake and all other lake rehabilitations proposed for 2012. The Department issued a news release on July 13th listing all public meeting times and locations for each proposed lake rehabilitation (http://wdfw.wa.gov/news/jul1312b/). The Omak-Okanogan County Chronicle printed our news release in their July 18th and 25th newspapers for the public meetings in Twisp (7/24) and Tonasket (7/31), respectively.

The general public who attended the meetings in Twisp and Tonasket should not have been told there would be a 30-day SEPA comment period starting August 1st. This was incorrect, and I apologize for any confusion. For the last three years, the SEPA comment period on all proposed lake rehabilitations has been 21 days. The Department news release stated that written comments would be accepted through August 31st and those should be addressed to me. That is simply an additional means of soliciting for and considering public comments on lake rehabilitations. Public input is important to the Department and has influenced our decision to rehabilitate lakes in the past.

The impression that Little Beaver Lake was not the primary lake rehabilitation proposal in Okanogan County is probably confused by the Department's retraction of the proposed

rehabilitation of Spectacle Lake, which is a larger body of water. Initially, both Little Beaver and Spectacle Lakes were proposed lake rehabilitations for Okanogan County, and neither was considered "primary." Upon further investigation and consultation with resort owners, the Department decided to put off the Spectacle Lake rehabilitation proposal for one to two years. You should not be concerned that Little Beaver Lake will be put on a five to seven year rehab cycle. The last time it was rehabbed was in 1980 to eradicate invasive minnows. Unless illegal introduction of yellow perch or other species reoccur, there should be no reason to rehabilitate Little Beaver Lake again in the future. However, lake rehabilitations typically last between five to ten years and average around seven years, and thus may explain why several lakes seem to be on a rotation of five to seven years. The more frequent the illegal introductions, the shorter the lifespan post-rehabilitation is.

The pre rehabilitation planning addresses the treatment of inlet and outlet streams. Inlet waters are treated to the upstream point where the undesirable fish can ascend. Outlet streams are also treated if waters below are to be treated, or they are detoxified if downstream waters do not require treatment. The outlet to Toroda Creek was sub-surfaced in July, and we expect it to be dry during the fall. If not, we would neutralize the water coming out of Little Beaver Lake so we do not kill any fish in other waters. That is standard procedure.

For each approved lake rehabilitation, the Department issues an emergency regulation lifting the current fishing regulations and allows anglers to harvest as many fish from the lake as possible. Unfortunately, due to the process and timeline for final approval, lifting the regulations cannot occur until the second week in September. Granted, three to five weeks is not a lot of time for anglers to harvest fish prior to the lake rehabilitation, but it is an opportunity that we provide as part of our process and protocols.

The lake rehabilitation documents handed out at the public meeting may be "old" in terms of when they were printed, but the information provided is still accurate and relevant today, especially the Q&A section and information. Your comment about the handout's appearance and perception of being outdated is duly noted and the Department will look into updating them for future public meetings. The Department has a staff member in Olympia that sits on the American Fisheries Society (AFS) Fish Management Chemicals Subcommittee and is recognized as one of the country's experts in the use of rotenone. This staff member also co-authored the current AFS Rotenone SOP Manual that the Department staff use today. Furthermore, Department staff members who perform lake rehabilitations have completed AFS and state training courses on rotenone and aquatic pesticide treatment methods and keep abreast of the latest research.

The National Institute of Health study you cite in your letter says "Rotenone directly inhibits the function of the mitochondria, the structure responsible for making energy in the cell." Inhaling powder or liquid or coming in contact with one's skin does not deliver the chemical to the cellular level in any significant amount. As stated in the response to your letters last year, in

order for rotenone to "induce Parkinson-like symptoms," liquid rotenone would need to be injected directly into the bloodstream. We have protective equipment and clothing that protects us very effectively from rotenone exposure. We truly appreciate your concern for our safety.

Thank you again for your comments, and if I can be any further assistance please feel free to contact me.

Sincerely,

Bruce Bolding
Inland Fish Program
Bruce.Bolding@dfw.wa.gov
(360) 902-8417

PRELIMINARY LIST OF PROPOSED WATERS FOR TREATMENT in 2013

Okanogan County

Spectacle Lake

Spokane County

Badger Lake