

FSEIS ADDENDUM

WDFW LAKE REHABILITATION

PROJECT PROPOSALS

2007



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

NOTICE OF FINAL DETERMINATION

PROJECT NAME: 2007- ADDENDUM TO LAKE AND STREAM REHABILITATION
DATE SIGNED: JULY 27, 2007 – SEPA LOG NUMBER: 07-065ADD
FINAL: AUGUST 28, 2007

Under the State Environmental Policy Act (SEPA) and WAC 197-11-340(2), the Washington Department of Fish and Wildlife's (WDFW) issued a

- Addendum to EIS**
- Mitigated Determination of Nonsignificance (MDNS)
- Revised Determination of Nonsignificance (RDNS)

This threshold determination is hereby:

Retained

Withdrawn. WDFW is considering making substantial changes to the proposal based upon an evaluation of new information that was brought to our attention during the comment period. A new threshold determination will be made upon completion of the proposal revision.

Extended. A final threshold determination has not been made. This SEPA proposal is under additional review. You will be notified when a final determination is made.

Any comments received for this proposal are attached. Comments received may affect future permits required for this proposal. Please review all comments and respond accordingly.

This document is a part of the official SEPA record; retain this with your original checklist and determination.

Sincerely,

Teresa A. Eturaspe
SEPA/NEPA Coordinator

TAE:tae

RECEIVED
AUG 28 2007
FISH PROGRAM

LAKE MANAGEMENT PLAN
Sprague Lake and Adjacent Waters
(Including Cow, Hallin, and Finnell Lakes,
including Sheep Springs; Negro, Damage and
Cow Creeks, Dixon's Pond, Lugenbeal Creek)

Updated June 2007 – C. Donley, J. Korth

Water(s): Sprague Lake

Location: Adams County/Lincoln County

Section 1, 12, Township 20 North, Range 37 East; Section 5, 6, 7, Township 20 North, Range 38 East; Section 21, 28, 29, 31, 32, Township 21 North, Range 38 East

PHYSICAL INFORMATION:

1. **Elevation:** 1,876 ft **Avg/Max Depth:** 11 ft/20 ft **Acres:** 1,860

Acre feet: 19,650 **Weight of water:** 53,411,529,600 lbs.

2. **Land Ownership:** Public 3% Private 97%

Land Use: Residential – 2%

Private-Recreational – 5%

Grazing – 40%

Tillable/irrigated - 6%

Railroad owned – 45%

3. **Public Access, Type and Condition:** WDFW boat launch, parking, toilets; no camping; well maintained.

Resorts: Two well-developed resorts with cabins, camping, launches, stores, and boat rentals.

4. **Inlet stream:** Negro Creek

5. **Outlet stream:** Cow Creek

Water(s): Cow Creek and Lugenbeal Springs/Creek

Location: Lincoln and Adams Counties. Cow Creek: **Cow Creek, including Sheep Springs** – Section 11, 12, 14, 23; 26, 35, Township 20 North, Range 37 East, Section 2, 10, 11, 15, 16, 20 Township 19 North, Range 37 East, WM; Section 29, 30, 31 Township 19 North, Range 37 East, WM; Section 35, 36, Township 19 North, Range 36 East; WM; Section 2, Township 18 North, Range 36 East, WM. **Lugenbeal Creek** – Section 1, 11, 12, 14, 15, Township 19 North, Range 37 East, WM

PHYSICAL INFORMATION:

1. **Elevation:** 1,876 to 1,674 ft **Avg/Max Depth:** 3 ft

Miles of stream: 14.5

2. **Land Ownership:** Public 0% Private 100%

Land Use: Residential – 1%

Private-Recreational – 0%

Grazing/Haying – 99%

Tillable/irrigated - 0%

3. **Public Access, Type and Condition:** None

Water(s): Cow Lake

Location: Adams County, Section 16, 20, 21, Township 19 North, Range 37 East

PHYSICAL INFORMATION:

1. **Elevation:** 1,749 ft **Avg/Max Depth:** 6 ft/21 ft **Acres:** 240
Acre feet: 1,300 **Weight of water:** 3,533,587,200 lbs.
2. **Land Ownership:** Public 1% Private 99%
Land Use: Residential – 0%
 Private-Recreational – 0%
 Grazing – 100%
 Tillable/irrigated - 0%
3. **Public Access, Type and Condition:** DNR boat launch, parking, no maintained camping areas.
4. **Inlet stream:** Cow Creek
5. **Outlet stream:** Cow Creek

Water(s): Hallin Lake

Location: Adams County, Section 15, 16, Township 19 North, Range 37 East

PHYSICAL INFORMATION:

1. **Elevation:** 1,760 ft **Avg/Max Depth:** 2 ft/14 ft **Acres:** 33
Acre feet: 70 **Weight of water:** 190,270,080 lbs.
2. **Land Ownership:** Public 1% Private 99%
Land Use: Residential – 0%
 Private-Recreational – 0%
 Grazing – 100%
 Tillable/irrigated - 0%
3. **Public Access, Type and Condition:** DNR boat launch, parking, no maintained camping areas.
4. **Inlet stream:** Cow Creek
5. **Outlet stream:** Cow Creek

Water(s): Finnell Lake Including Sheep Springs

Location: Adams County, Section 36, Township 19 North, Range 36 East, Section 2, Township 18 North, Range 36 East, this takes in the Sheep Springs Dam

PHYSICAL INFORMATION:

1. **Elevation:** 1,960 ft **Avg/Max Depth:** 6 ft/13 ft **Acres:** 3.8 for Dixon's Pond
Acre feet: 186 **Weight of water:** 505,574,784 lbs.
2. **Land Ownership:** Public 0% Private 100%
Land Use: Residential – 0%
 Private-Recreational – 0%
 Grazing – 100%
 Tillable/irrigated - 0%



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DEPARTMENT OF FISH AND WILDLIFE

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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 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 lakes and streams in eastern Washington (Stevens, Okanogan and Grant Counties), by the use of Rotenone, to improve fishing for game fish via the elimination of other non-game or competitor species of fish, and to improve wildlife habitat by removal of exotic herbivorous fish. The FSEIS applied to statewide coverage.

Proponent: Washington Department of Fish and Wildlife, 600 Capitol Way North, Olympia, Washington 98501-1091. Contact Person: Jon Anderson Ph: 360-902-2711.

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 2006-2007 season.

Location of Current Proposals:

Adams/Lincoln Counties – Sprague Lake and Associated Waters

Sprague Lake – Section 1, 12, Township 20 North, Range 37 East; Section 5, 6, 7, Township 20 North, Range 38 East; Section 21, 28, 29, 31, 32, Township 21 North, Range 38 East WM

Negro Creek (including Dixon's Pond) - Section 21, 22, 23, 24, Township 21 North, Range 38 East; Section 13, 14, 19, 22, 23, 26, 27, 28, 29, 30, Township 21 North, Range 39 East WM

Damage Creek - Section 12, 13, Township 21 North, Range 39 East WM

Cow Creek, including Sheep Springs – Section 11, 12, 14, 23, 26, 35, Township 20 North, Range 37 East; Section 2, 10, 11, 15, 16, 20 Township 19 North, Range 37 East, WM; Section 29, 30, 31 Township 19 North, Range 37 East, WM; Section 35, 36, Township 19 North, Range 36 East, WM; Section 2, Township 18 North, Range 36 East, WM

Lugenbeal Creek – Section 1, 11, 12, 14, 15, Township 19 North, Range 37 East, WM

Hallin Lake – Section 15, 16, Township 19 North, Range 37 East WM

Cow Lake – Section 16, 20, 21, Township 19 North, Range 37 East WM

Finnell Lake - Section 36, Township 19 North, Range 36 East, WM

Okanogan County

Chopaka Lake - Sec 33, Township 40 North, Range 25 East; Sec 4 Township 39 North, Range 25 East Willamette Meridian (WM)

Blue Lake (Lime Belt) – Section 31, Township 36 North, Range 26 East; Section 6, Township 35 North, Range 26 East WM

Grant County

Corral Lake – Section 15, 16, Township 17 North, Range 28 East WM

Blythe Lake - Section 14, 15, Township 17 North, Range 28 East WM

Chukar Lake – Section 14, Township 17 North, Range 28 East WM

Scaup Lake – Section 14, Township 17 North, Range 28 East WM

Yakima County

Byron Pond – Sections 9, 10, 11, 12, T8N, R23E WM

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.

The lead agency will not act on this proposal for 30 days from the date of issue below.

Comments must be submitted by: August 27, 2007.

When you send us your comments, please provide the name of proposal in your comment letter and mail it to:

Responsible Official: Teresa A. Eturaspe

Position/Title: SEPA/NEPA Coordinator, Regulatory Services Section

Address: 600 Capitol Way North, Olympia, WA 98501

You can also send your comments via email to: SEPAdesk@dfw.wa.gov

Email comments must have the name of the proposal and your name in the subject line.

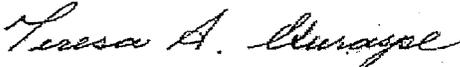
You can also send you comments via fax to: (360) 902-2946.

If you have questions about this action, please contact:

Teresa A. Eturaspe **Phone:** (360) 902-2575 **Fax:** (360) 902-2946 or

email: SEPAdesk@dfw.wa.gov

DATE OF ISSUE: July 27, 2007

SIGNATURE: 

SEPA Log Number: 07-065add (Addendum to Lake and Stream Rehabilitation, FSEIS, 1992 and Lake and Stream Rehabilitation: Rotenone Use and Health Risks, FSEIS, 2002)

Inlet drainage, including Negro Creek, Dixon's Ponds (enlargement of Negro Creek), and Miller's Ponds (enlargement of Negro Creek).

The treatment of the inlet drainage commenced October 1, 2007 and was mostly accomplished over a three-day period. Conditions were generally favorable. Weather was overcast to partly sunny, 50-60°F, with variable SW winds 5-20 mph. Water temperature was in the low 50°F range - cool enough to retain a reasonable length of toxicity, and warm enough that fish were still fairly active. A crew of six WDFW employees was present.

A canoe and ATV were used to spray 20 gallons of liquid rotenone on Negro Creek from Fishtrap Lake to the area of Dixon's pond the first day. Dixon's Pond (actually an enlargement in Negro Creek) was treated the following day by pumper boats with a slurry of powdered rotenone (275 lbs) and liquid rotenone (20 gal). The canoe and ATV were also used to spray the shallows where emergent vegetation precluded the pumper boats. Another wide spot in the creek, with ponds on the Miller ranch, as well as the inlet and outlet portion of the creek were treated the third day by canoe and ATV with 24 gallons of liquid rotenone. Damage Creek, a tributary, was dry and not treated. The last flowing portion of Negro Creek was treated Oct 11 by canoe with 5 gallons of liquid rotenone. Negro Creek flows became subterranean several miles above the town of Sprague. Just below the town, Sprague Lake backed up into Negro Creek at its inlet for several hundred yards, and an ATV was used to treat this water with 7 gallons of liquid rotenone.

The success of the treatment of the inlet drainage in terms of fish eradication was very good. Fish began to stress and die by the end of the first day of treatment. Carp and bullheads were predominant, and there was a fair number of redbfin pickerel, yellow perch, black crappie, and sunfish. Bass were few in number. No live fish were observed in the upper creek by the end of the third day. By the end of the treatment, no live fish were observed in Negro Creek.

Outlet drainage, including Cow Creek, Hallin Lake, Cow Lake, Finnell Lake, and Sheep Springs

The treatment of the outlet drainage commenced October 4, 2007 and was mostly accomplished over a two-day period. Conditions were generally favorable. Weather was partly sunny, 50-60 F, with variable SW winds 0-5 mph. Water temperature was in the low 50 °F range - cool enough to retain a reasonable length of toxicity, and warm enough that fish were still fairly active. A crew of seven DFW employees was present.

Cow Creek from Sprague Lake to Bill Harder's ranch was treated with ATV, canoe, and drip stations with 20 gallons of liquid rotenone the first day. The creek was finished by canoe to Hallin Lake the next day. Lugenbeal Creek did not connect to Cow Creek, and was not treated. Cow Lake was treated by pumper boat with 4,510 lbs of powder @ 6.7%. A helicopter was also used to spray Cow Lake shallows and outlet creek/ponds with 72 gallons of liquid rotenone. The helicopter was then employed to spray Hallin Lake (69 gal), Finnell Lake (184 gal), and Sheep Springs (35 gal).

The success of the treatment of the outlet drainage in terms of fish eradication was mixed, primarily because there was much more water than anticipated. There were portions of Cow Creek above Harder's ranch that could not be easily accessed for treatment. After the initial helicopter spray, live fish of many species were observed in Finnell Lake for up to two days, and live carp and bullheads were also found in Hallin and Cow Lakes after one day. On October 8, Finnell Lake was again sprayed with an additional 60 gallons of liquid rotenone by helicopter. There were still a few stressed but live bullhead and carp in the lower lake. In the upper part of Finnell Lake, a school of ~ 50 carp

were observed. While there was no inflow to the lake, the clear water there may have indicated a spring in the vicinity.

Carp and bullheads were predominant in the outlet waters, but many other species were also numerous. There were a fair number of redbfin pickerel everywhere, and yellow perch, black crappie, sunfish, walleye, and bass were locally abundant in some lakes. Other than in Finnell Lake, no live fish were observed in the outlet waters by the end of the treatment.

Sprague Lake

The treatment of the Sprague Lake commenced October 8, 2007 and was accomplished over a three-day period. The treatment was staged at the Four Seasons Resort on the NW shoreline the first two days, and at Sprague Lake Resort on the NE end of the lake the last day. Conditions were generally favorable. Weather was mostly sunny, 50-60°F+, with variable East winds 0-5 mph for the first two days. The third day was overcast, light rain, with the wind picking up by 11 AM to WSW 10-15 mph. Water temperature was in the low 50°F range - cool enough to retain a reasonable length of toxicity, and warm enough that fish were still fairly active. A crew of up to 40 WDFW employees and 5 volunteers was present. Volunteers were used for cooking and errands, they were not asked to do rotenone application or any task directly associated with the rehabilitation process.

Treatment on the first day was limited to helicopter spraying of the large marsh at the SW end of the lake (250 acres) and a few other smaller, shallow bays around the lake (80 acres). 330 gallons of liquid rotenone were used proportionately.

Treatment with powdered rotenone began the second day. Two large barges, each with two pumps and a crew of four, were capable of taking 50+ boxes (2,750 lbs) of powdered rotenone per trip. Four pumper boats, each with one pump and a crew of two, were capable of taking 14-20 boxes (770-1,100 lbs) of powdered rotenone per trip. All six craft applied a total of 44,000 lbs @ 7.33% avg. Sections 1-7 were treated, and sections 1-6 were completed, covering over almost two-thirds of the lake volume. The airboat was used to spray 30 gallons of liquid rotenone in the shallow areas around the large island (south end of lake) and several other shallow areas around the shoreline of the lake that were not treated by helicopter.

The powdered rotenone treatment was finished the third day. All six craft applied a total of 26,400 lbs @ 7.33% avg. Sections 7-10 were completed, covering the remainder of the lake volume. The airboat was used to spray 8 gallons of liquid rotenone in the shallow areas at the east end of the lake. Treatment was almost complete by the time the wind began to increase. High winds continued after the treatment was completed, and the lake was well mixed.

The success of the treatment of Sprague Lake in terms of fish eradication was very good. Fish began to stress and die by the end of the first day of treatment. A few live carp, bullheads and catfish persisted in the south bay of the northeast end of the lake for two days post-treatment; however, no live fish were observed anywhere else on the lake. Carp and black crappie were predominant, and walleye and bullheads were also very abundant. Redfin pickerel, yellow perch, bluegill, channel catfish, largemouth bass, smallmouth bass, sculpins, and tench were much less numerous.

Cost: About 150 man-days (man-day = 8 hrs) were required to complete the treatment of Sprague Lake and drainages from pre-treatment preparation (signing, sampling, rotenone and equipment transport) through treatment, clean up, and travel. Total cost of the treatment alone (rotenone, labor - \$268/day, travel, expendable equipment) was approximately \$280,000, including about \$40,200 for labor during the treatment and \$230,544 for rotenone (109,157 lbs powder @ \$1.65/lb @ 5%, delivered; 917 gals liquid @ \$55/gal). Estimated time for pre-rehabilitation proposals, general public outreach, post-rehabilitation sampling and reports added at least 30 days. Public outreach and planning began for this project over a year in advance. Additional investigation (creel, research alternatives) and fish salvage (crappie, catfish) also added a significant amount of time.

Epilogue: Sprague Lake was stocked in early spring 2008 with about 150,000 catchable-sized rainbow (10-12") and 3,200 large triploid rainbow trout (1-1.5 lbs each). Fingerling trout stocking was delayed to allow zooplankton and insect populations to recover. About 200,000 fingerling rainbow will be stocked late spring and 80,000 Lahontan cutthroat will be stocked in fall 2008. Good trout angling is expected to ensue for the next 4-5 years. In addition, 6,000 rainbow trout will be stocked in Cow Lake.

Warmwater fish already stocked in 2008 include 3,500 black crappie yearlings, 600 crappie juveniles and 49 channel catfish adults (both species salvaged from Sprague Lake in 2007). Warmwater broodstock and fingerling fish targeted stocking numbers are as follows:

bluegill	adult	1,000	0.54
bluegill	yearling	35,000	18.82
black crappie	adult	1,000	0.54
black crappie	yearling	5,000	2.69
white crappie	adult	1,000	0.54
largemouth bass	adult	200	0.11
largemouth bass	sub-adult	1,000	0.54
largemouth bass	yearling	10,000	5.38
channel catfish	yearling	10,000	5.38

The warmwater fishery is expected to develop over the next 3-5 years, producing good fishing for these species by 2012.

The Sprague Lake fisheries are much anticipated by anglers and biologists alike.

ESN NW BELLEVUE CHEMISTRY LABORATORY
Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71005.4
Client: Washington Department of Fish and Wildlife
Client Job Name: Dixon's Pond
Client Job Number:

Analytical Results

8270, µg/L	MTH BLK	LCS	Dixon's Pond	MS	MSD	RPD	
Matrix	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	10/09/07	10/09/07	10/09/07	10/09/07	10/09/07	
Date analyzed	Limits	10/10/07	10/10/07	10/11/07	10/10/07	10/10/07	
Pyridine	2.0	nd		nd			
Aniline	2.0	nd		nd			
Phenol	2.0	nd		nd	100%	106%	6%
2-Chlorophenol	2.0	nd		nd	113%	119%	5%
Bis (2-chloroethyl) ether	2.0	nd		nd			
1,3-Dichlorobenzene	2.0	nd		nd			
1,4-Dichlorobenzene	2.0	nd	49%	nd	43%	44%	2%
1,2-Dichlorobenzene	2.0	nd		nd			
N-methylpyrrolidone	2.0	nd		nd			
Benzyl alcohol	2.0	nd		nd			
2-Methylphenol (o-cresol)	2.0	nd		nd			
Bis (2-chloroisopropyl) ether	10.0	nd		nd			
3,4-Methylphenol (m,p-cresol)	2.0	nd		nd			
Hexachloroethane	2.0	nd		nd			
N-Nitroso-di-n-propylamine	2.0	nd		nd	104%	105%	1%
Nitrobenzene	2.0	nd		nd			
Isophorone	2.0	nd		nd			
2-Nitrophenol	10.0	nd		nd			
4-Nitrophenol	10.0	nd		nd	53%	56%	6%
2,4-Dimethylphenol	2.0	nd		nd			
Bis (2-chloroethoxy) methane	2.0	nd		nd			
2,4-Dichlorophenol	10.0	nd		nd			
1,2,4-Trichlorobenzene	2.0	nd		nd	69%	70%	1%
Naphthalene	2.0	nd		nd			
4-Chloroaniline	10.0	nd		nd			
Hexachlorobutadiene	2.0	nd	112%	nd			
4-Chloro-3-methylphenol	10.0	nd		nd	62%	62%	0%
2-Methylnaphthalene	2.0	nd		8.1			
1-Methylnaphthalene	2.0	nd		4.3			
Hexachlorocyclopentadiene	2.0	nd		nd			
2,4,6-Trichlorophenol	10.0	nd		nd			
2,4,5-Trichlorophenol	10.0	nd		nd			
2-Chloronaphthalene	2.0	nd		nd			
2-Nitroaniline	10.0	nd		nd			
1,4-Dinitrobenzene	10.0	nd		nd			
Dimethylphthalate	2.0	nd		nd			
Acenaphthylene	0.2	nd		nd			
1,3-Dinitrobenzene	10.0	nd		nd			
2,6-Dinitrotoluene	2.0	nd		nd			
1,2-Dinitrobenzene	2.0	nd		nd			
Acenaphthene	0.2	nd	108%	nd	93%	97%	4%
3-Nitroaniline	10.0	nd		nd			
Dibenzofuran	2.0	nd		nd			
2,4-Dinitrotoluene	2.0	nd		nd			
2,3,4,6-Tetrachlorophenol	2.0	nd		nd			
2,3,5,6-Tetrachlorophenol	2.0	nd		nd			
2,4-Dinitrophenol	10.0	nd		nd			
Fluorene	0.2	nd		nd			
4-Chlorophenylphenylether	2.0	nd		nd			
Diethylphthalate	2.0	nd		nd			
4-Nitroaniline	10.0	nd		nd			
4,6-Dinitro-2-methylphenol	10.0	nd		nd			
N-nitrosodiphenylamine	2.0	nd		nd			
Azobenzene	2.0	nd		nd			
4-Bromophenylphenylether	2.0	nd		nd			
Hexachlorobenzene	2.0	nd		nd			
Pentachlorophenol	10.0	nd		nd	52%	57%	9%
Phenanthrene	0.2	nd		nd			
Anthracene	0.2	nd		nd			
Carbazole	2.0	nd		nd			
Di-n-butylphthalate	2.0	nd		nd			
Fluoranthene	0.2	nd	101%	nd			
Pyrene	0.2	nd		nd	83%	85%	2%
Butylbenzylphthalate	2.0	nd		nd			
Bis(2-ethylhexyl) adipate	2.0	nd		nd			
Benzo(a)anthracene	0.2	nd		nd			
Chrysene	0.2	nd		nd			
Bis (2-ethylhexyl) phthalate	2.0	nd		nd			
Di-n-octyl phthalate	2.0	nd	104%	nd			
Benzo(b)fluoranthene	0.2	nd		nd			
Benzo(k)fluoranthene	0.2	nd		nd			
Benzo(a)pyrene	0.2	nd	84%	nd			
Dibenzo(a,h)anthracene	0.2	nd		nd			
Benzo(ghi)perylene	0.2	nd		nd			
Indeno(1,2,3-cd)pyrene	0.2	nd		nd			

ESN NW BELLEVUE CHEMISTRY LABORATORY
 Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71005.4
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Dixon's Pond
 Client Job Number:

Analytical Results

8270, µg/L	MTH BLK	LCS	Dixon's Pond	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water
Date extracted	Reporting	10/09/07	10/09/07	10/09/07	10/09/07	10/09/07
Date analyzed	Limits	10/10/07	10/10/07	10/11/07	10/10/07	10/10/07

Surrogate recoveries

2-Fluorophenol	112%			72%	76%
Phenol-d6	120%			92%	97%
Nitrobenzene-d5	99%	77%	48%	117%	111%
2-Fluorobiphenyl	98%	55%	118%	85%	87%
2,4,6-Tribromophenol	81%			89%	87%
4-Terphenyl-d14	85%	53%	116%	79%	80%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

Acceptable Recovery limits:

2-Fluorophenol: 10-135 %

Phenol - d5: 10-135 %

2,4,6- tribromophenol: 29-159%

Nitrobenzene - d5: 20-120 %

2-Fluorobiphenyl: 50-150%

p-Terphenyl-d14: 50-150%

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

ESN Job Number: S71106.4
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Dixon's Pond
 Client Job Number:

Analytical Results

8260, µg/L	MTH BLK	LCS Dixon's Pond	MS	MSD	RPD	
Matrix	Water	Water	Water	Water	Water	
Sample Collected	Reporting		11/02/07			
Date analyzed	Limits	11/08/07	11/08/07	11/08/07	11/08/07	
Dichlorodifluoromethane	1.0	nd				
Chloromethane	1.0	nd				
Vinyl chloride	0.2	nd				
Bromomethane	1.0	nd				
Chloroethane	1.0	nd				
Trichlorofluoromethane	1.0	nd				
Acetone	10.0	nd				
1,1-Dichloroethene	1.0	nd	94%	98%	91%	7%
Methylene chloride	10.0	nd				
Methyl-t-butyl ether (MTBE)	1.0	nd				
trans-1,2-Dichloroethene	1.0	nd				
1,1-Dichloroethane	1.0	nd				
n-Hexane	1.0	nd				
2-Butanone (MEK)	10.0	nd				
cis-1,2-Dichloroethene	1.0	nd				
2,2-Dichloropropane	1.0	nd				
Chloroform	1.0	nd				
Bromochloromethane	1.0	nd				
1,1,1-Trichloroethane	1.0	nd				
1,2-Dichloroethane (EDC)	1.0	nd				
1,1-Dichloropropene	1.0	nd				
Carbon tetrachloride	1.0	nd				
Benzene	1.0	nd	102%	106%	100%	6%
Trichloroethene (TCE)	1.0	nd	104%	107%	101%	6%
1,2-Dichloropropane	1.0	nd				
Dibromomethane	1.0	nd				
Bromodichloromethane	1.0	nd				
4-Methyl-2-pentanone (MIBK)	1.0	nd				
cis-1,3-Dichloropropene	1.0	nd				
Toluene	1.0	nd	108%	116%	109%	6%
trans-1,3-Dichloropropene	1.0	nd				
1,1,2-Trichloroethane	1.0	nd				
2-Hexanone	1.0	nd				
1,3-Dichloropropane	1.0	nd				
Dibromochloromethane	1.0	nd				
Tetrachloroethene (PCE)	1.0	nd				
1,2-Dibromoethane (EDB)	0.10	nd				
Chlorobenzene	1.0	nd	117%	125%	118%	6%
1,1,1,2-Tetrachloroethane	1.0	nd				
Ethylbenzene	1.0	nd				
Xylenes	1.0	nd				
Styrene	1.0	nd				
Bromoform	1.0	nd				
1,1,2,2-Tetrachloroethane	1.0	nd				
Isopropylbenzene	1.0	nd				
1,2,3-Trichloropropane	1.0	nd				
Bromobenzene	1.0	nd				
n-Propylbenzene	1.0	nd				
2-Chlorotoluene	1.0	nd				
4-Chlorotoluene	1.0	nd				
1,3,5-Trimethylbenzene	1.0	nd				
tert-Butylbenzene	1.0	nd				
1,2,4-Trimethylbenzene	1.0	nd				
sec-Butylbenzene	1.0	nd				
1,3-Dichlorobenzene	1.0	nd				
1,4-Dichlorobenzene	1.0	nd				
Isopropyltoluene	1.0	nd				
1,2-Dichlorobenzene	1.0	nd				
n-Butylbenzene	1.0	nd				
1,2-Dibromo-3-Chloropropane	1.0	nd				
1,2,4-Trichlorobenzene	1.0	nd				
Naphthalene	1.0	nd				
Hexachloro-1,3-butadiene	1.0	nd				
1,2,3-Trichlorobenzene	1.0	nd				

*Instrument detection limits

ESN SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

ESN Job Number: S71106.4
Client: Washington Department of Fish and Wildlife
Client Job Name: Dixon's Pond
Client Job Number:

Analytical Results

8260, µg/L	MTH BLK	LCS	Dixon's Pond	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water
Sample Collected	Reporting			11/02/07		
Date analyzed	Limits	11/08/07	11/08/07	11/08/07	11/08/07	11/08/07

Surrogate recoveries:

Dibromofluoromethane	134%	126%	132%	128%	129%
Toluene-d8	105%	105%	107%	108%	106%
4-Bromofluorobenzene	101%	103%	99%	100%	100%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
J - estimated quantitation, below listed reporting limits
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

ESN NW BELLEVUE CHEMISTRY LABORATORY
Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71106.4
Client: Washington Department of Fish and Wildlife
Client Job Name: Dixon's Pond
Client Job Number:

Analytical Results

8270, µg/L	MTH BLK		LCS Dixon's Pond		MS	MSD	RPD
	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07	
Date analyzed	Limits	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07	
Sample collected				11/02/07			
Pyridine	2.0	nd		nd			
Aniline	2.0	nd		nd			
Phenol	2.0	nd		nd	75%	78%	4%
2-Chlorophenol	2.0	nd		nd	97%	100%	3%
Bis (2-chloroethyl) ether	2.0	nd		nd			
1,3-Dichlorobenzene	2.0	nd		nd			
1,4-Dichlorobenzene	2.0	nd	101%	nd	105%	107%	2%
1,2-Dichlorobenzene	2.0	nd		nd			
N-methylpyrrolidone	2.0	nd		nd			
Benzyl alcohol	2.0	nd		nd			
2-Methylphenol (o-cresol)	2.0	nd		nd			
Bis (2-chloroisopropyl) ether	10.0	nd		nd			
3,4-Methylphenol (m,p-cresol)	2.0	nd		nd			
Hexachloroethane	2.0	nd		nd			
N-Nitroso-di-n-propylamine	2.0	nd		nd	92%	95%	3%
Nitrobenzene	2.0	nd		nd			
Isophorone	2.0	nd		nd			
2-Nitrophenol	10.0	nd		nd			
4-Nitrophenol	10.0	nd		nd	37%	41%	10%
2,4-Dimethylphenol	2.0	nd		nd			
Bis (2-chloroethoxy) methane	2.0	nd		nd			
2,4-Dichlorophenol	10.0	nd		nd			
1,2,4-Trichlorobenzene	2.0	nd		nd	82%	86%	5%
Naphthalene	2.0	nd		nd			
4-Chloroaniline	10.0	nd		nd			
Hexachlorobutadiene	2.0	nd	116%	nd			
4-Chloro-3-methylphenol	10.0	nd		nd	100%	103%	3%
2-Methylnaphthalene	2.0	nd		nd			
1-Methylnaphthalene	2.0	nd		nd			
Hexachlorocyclopentadiene	2.0	nd		nd			
2,4,6-Trichlorophenol	10.0	nd		nd			
2,4,5-Trichlorophenol	10.0	nd		nd			
2-Chloronaphthalene	2.0	nd		nd			
2-Nitroaniline	10.0	nd		nd			
1,4-Dinitrobenzene	10.0	nd		nd			
Dimethylphthalate	2.0	nd		nd			
Acenaphthylene	0.2	nd		nd			
1,3-Dinitrobenzene	10.0	nd		nd			
2,6-Dinitrotoluene	2.0	nd		nd			
1,2-Dinitrobenzene	2.0	nd		nd			
Acenaphthene	0.2	nd	99%	nd	100%	96%	4%
3-Nitroaniline	10.0	nd		nd			
Dibenzofuran	2.0	nd		nd			
2,4-Dinitrotoluene	2.0	nd		nd			
2,3,4,6-Tetrachlorophenol	2.0	nd		nd			
2,3,5,6-Tetrachlorophenol	2.0	nd		nd			
2,4-Dinitrophenol	10.0	nd		nd			
Fluorene	0.2	nd		nd			
4-Chlorophenylphenylether	2.0	nd		nd			
Diethylphthalate	2.0	nd		nd			
4-Nitroaniline	10.0	nd		nd			
4,6-Dinitro-2-methylphenol	10.0	nd		nd			
N-nitrosodiphenylamine	2.0	nd		nd			
Azobenzene	2.0	nd		nd			
4-Bromophenylphenylether	2.0	nd		nd			
Hexachlorobenzene	2.0	nd		nd			
Pentachlorophenol	10.0	nd		nd	63%	68%	2%
Phenanthrene	0.2	nd		nd			
Anthracene	0.2	nd		nd			
Carbazole	2.0	nd		nd			
Di-n-butylphthalate	2.0	nd		nd			
Fluoranthene	0.2	nd	107%	nd			
Pyrene	0.2	nd		nd	83%	86%	4%
Butylbenzylphthalate	2.0	nd		nd			
Bis(2-ethylhexyl) adipate	2.0	nd		nd			
Benzo(a)anthracene	0.2	nd		nd			
Chrysene	0.2	nd		nd			
Bis (2-ethylhexyl) phthalate	2.0	nd		nd			
Di-n-octyl phthalate	2.0	nd		nd			
Benzo(b)fluoranthene	0.2	nd		nd			
Benzo(k)fluoranthene	0.2	nd		nd			
Benzo(a)pyrene	0.2	nd	62%	nd			
Dibenzo(a,h)anthracene	0.2	nd		nd			
Benzo(ghi)perylene	0.2	nd		nd			
Indeno(1,2,3-cd)pyrene	0.2	nd		nd			

ESN NW BELLEVUE CHEMISTRY LABORATORY
 Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71106.4
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Dixon's Pond
 Client Job Number:

Analytical Results

8270, µg/L		MTH BLK	LCS	Dixon's Pond	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07	
Date analyzed	Limits	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07	
Sample collected				11/02/07			

Surrogate recoveries

2-Fluorophenol	73%				93%	98%
Phenol-d6	82%				97%	103%
Nitrobenzene-d5	65%	49%		48%	71%	73%
2-Fluorobiphenyl	92%	75%		114%	127%	129%
2,4,6-Tribromophenol	66%				106%	116%
4-Terphenyl-d14	80%	65%		98%	113%	112%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

Acceptable Recovery limits:

- 2-Fluorophenol: 10-135 %
- Phenol - d5: 10-135 %
- 2,4,6- tribromophenol: 29-159%
- Nitrobenzene - d5: 20-120 %
- 2-Fluorobiphenyl: 50-150%
- p-Terphenyl-d14: 50-150%
- Acceptable RPD limit: 35%

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

ESN Job Number: S71016.4
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Sprague Lake
 Client Job Number:

Analytical Results							
8260, µg/L		MTH BLK	LCS	Finnel Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water	
Date analyzed	Reporting Limits	10/17/07	10/17/07	10/17/07	10/17/07	10/17/07	
Dichlorodifluoromethane	1.0	nd		nd			
Chloromethane	1.0	nd		nd			
Vinyl chloride	0.2	nd		nd			
Bromomethane	1.0	nd		nd			
Chloroethane	1.0	nd		nd			
Trichlorofluoromethane	1.0	nd		nd			
Acetone	10.0	nd		nd			
1,1-Dichloroethene	1.0	nd	105%	nd	104%	100%	4%
Methylene chloride	10.0	nd		nd			
Methyl-t-butyl ether (MTBE)	1.0	nd		nd			
trans-1,2-Dichloroethene	1.0	nd		nd			
1,1-Dichloroethane	1.0	nd		nd			
n-Hexane	1.0	nd		nd			
2-Butanone (MEK)	10.0	nd		nd			
cis-1,2-Dichloroethene	1.0	nd		nd			
2,2-Dichloropropane	1.0	nd		nd			
Chloroform	1.0	nd		nd			
Bromochloromethane	1.0	nd		nd			
1,1,1-Trichloroethane	1.0	nd		nd			
1,2-Dichloroethane (EDC)	1.0	nd		nd			
1,1-Dichloropropene	1.0	nd		nd			
Carbon tetrachloride	1.0	nd		nd			
Benzene	1.0	nd	101%	nd	101%	100%	1%
Trichloroethene (TCE)	1.0	nd	101%	nd	102%	100%	2%
1,2-Dichloropropane	1.0	nd		nd			
Dibromomethane	1.0	nd		nd			
Bromodichloromethane	1.0	nd		nd			
4-Methyl-2-pentanone (MIBK)	1.0	nd		nd			
cis-1,3-Dichloropropene	1.0	nd		nd			
Toluene	1.0	nd	104%	nd	108%	108%	0%
trans-1,3-Dichloropropene	1.0	nd		nd			
1,1,2-Trichloroethane	1.0	nd		nd			
2-Hexanone	1.0	nd		nd			
1,3-Dichloropropane	1.0	nd		nd			
Dibromochloromethane	1.0	nd		nd			
Tetrachloroethene (PCE)	1.0	nd		nd			
1,2-Dibromoethane (EDB)	0.10	nd		nd			
Chlorobenzene	1.0	nd	110%	nd	114%	114%	0%
1,1,1,2-Tetrachloroethane	1.0	nd		nd			
Ethylbenzene	1.0	nd		nd			
Xylenes	1.0	nd		nd			
Styrene	1.0	nd		nd			
Bromoform	1.0	nd		nd			
1,1,2,2-Tetrachloroethane	1.0	nd		nd			
Isopropylbenzene	1.0	nd		nd			
1,2,3-Trichloropropane	1.0	nd		nd			
Bromobenzene	1.0	nd		nd			
n-Propylbenzene	1.0	nd		nd			
2-Chlorotoluene	1.0	nd		nd			
4-Chlorotoluene	1.0	nd		nd			
1,3,5-Trimethylbenzene	1.0	nd		nd			
tert-Butylbenzene	1.0	nd		nd			
1,2,4-Trimethylbenzene	1.0	nd		3.5			
sec-Butylbenzene	1.0	nd		nd			
1,3-Dichlorobenzene	1.0	nd		nd			
1,4-Dichlorobenzene	1.0	nd		nd			
Isopropyltoluene	1.0	nd		nd			
1,2-Dichlorobenzene	1.0	nd		nd			
n-Butylbenzene	1.0	nd		17			
1,2-Dibromo-3-Chloropropane	1.0	nd		nd			
1,2,4-Trichlorobenzene	1.0	nd		nd			
Naphthalene	1.0	nd		180			
Hexachloro-1,3-butadiene	1.0	nd		nd			
1,2,3-Trichlorobenzene	1.0	nd		nd			

*-Instrument detection limits

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

ESN Job Number: S71016.4
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Sprague Lake
 Client Job Number:

Analytical Results

8260, µg/L		MTH BLK	LCS	Finnel Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water	
	Reporting						
Date analyzed	Limits	10/17/07	10/17/07	10/17/07	10/17/07	10/17/07	

Surrogate recoveries:

Dibromofluoromethane	121%	117%	126%	119%	118%
Toluene-d8	96%	95%	95%	94%	94%
4-Bromofluorobenzene	93%	96%	84%	93%	92%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
 J - estimated quantitation, below listed reporting limits
 Acceptable Recovery limits: 65% TO 135%
 Acceptable RPD limit: 35%

ESN NW BELLEVUE CHEMISTRY LABORATORY
Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71016.4
Client: Washington Department of Fish and Wildlife
Client Job Name: Sprague Lake
Client Job Number:

Analytical Results

8270, µg/L	MTH BLK		LCS Finnel Lake		MS	MSD	RPD
	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	10/22/07	10/22/07	10/18/07	10/22/07	10/22/07	
Date analyzed	Limits	10/22/07	10/22/07	10/22/07	10/22/07	10/22/07	
Pyridine	2.0	nd		nd			
Aniline	2.0	nd		nd			
Phenol	2.0	nd		nd	46%	47%	2%
2-Chlorophenol	2.0	nd		nd	61%	66%	8%
Bis (2-chloroethyl) ether	2.0	nd		nd			
1,3-Dichlorobenzene	2.0	nd		nd			
1,4-Dichlorobenzene	2.0	nd	119%	nd	103%	104%	1%
1,2-Dichlorobenzene	2.0	nd		nd			
N-methylpyrrolidone	2.0	nd		nd			
Benzyl alcohol	2.0	nd		nd			
2-Methylphenol (o-cresol)	2.0	nd		nd			
Bis (2-chloroisopropyl) ether	10.0	nd		nd			
3,4-Methylphenol (m,p-cresol)	2.0	nd		nd			
Hexachloroethane	2.0	nd		nd			
N-Nitroso-di-n-propylamine	2.0	nd		nd	94%	96%	2%
Nitrobenzene	2.0	nd		nd			
Isophorone	2.0	nd		nd			
2-Nitrophenol	10.0	nd		nd			
4-Nitrophenol	10.0	nd		nd	41%	47%	14%
2,4-Dimethylphenol	2.0	nd		nd			
Bis (2-chloroethoxy) methane	2.0	nd		nd			
2,4-Dichlorophenol	10.0	nd		nd			
1,2,4-Trichlorobenzene	2.0	nd		nd	115%	116%	1%
Naphthalene	2.0	nd		19			
4-Chloroaniline	10.0	nd		nd			
Hexachlorobutadiene	2.0	nd	114%	nd			
4-Chloro-3-methylphenol	10.0	nd		nd	74%	77%	4%
2-Methylnaphthalene	2.0	nd		21			
1-Methylnaphthalene	2.0	nd		10			
Hexachlorocyclopentadiene	2.0	nd		nd			
2,4,6-Trichlorophenol	10.0	nd		nd			
2,4,5-Trichlorophenol	10.0	nd		nd			
2-Chloronaphthalene	2.0	nd		nd			
2-Nitroaniline	10.0	nd		nd			
1,4-Dinitrobenzene	10.0	nd		nd			
Dimethylphthalate	2.0	nd		nd			
Acenaphthylene	0.2	nd		nd			
1,3-Dinitrobenzene	10.0	nd		nd			
2,6-Dinitrotoluene	2.0	nd		nd			
1,2-Dinitrobenzene	2.0	nd		nd			
Acenaphthene	0.2	nd	96%	nd	90%	94%	4%
3-Nitroaniline	10.0	nd		nd			
Dibenzofuran	2.0	nd		nd			
2,4-Dinitrotoluene	2.0	nd		nd			
2,3,4,6-Tetrachlorophenol	2.0	nd		nd			
2,3,5,6-Tetrachlorophenol	2.0	nd		nd			
2,4-Dinitrophenol	10.0	nd		nd			
Fluorene	0.2	nd		nd			
4-Chlorophenylphenylether	2.0	nd		nd			
Diethylphthalate	2.0	nd		nd			
4-Nitroaniline	10.0	nd		nd			
4,6-Dinitro-2-methylphenol	10.0	nd		nd			
N-nitrosodiphenylamine	2.0	nd		nd			
Azobenzene	2.0	nd		nd			
4-Bromophenylphenylether	2.0	nd		nd			
Hexachlorobenzene	2.0	nd		nd			
Pentachlorophenol	10.0	nd		nd	78%	82%	5%
Phenanthrene	0.2	nd		nd			
Anthracene	0.2	nd		nd			
Carbazole	2.0	nd		nd			
Di-n-butylphthalate	2.0	nd		nd			
Fluoranthene	0.2	nd	119%	nd			
Pyrene	0.2	nd		nd	94%	100%	6%
Butylbenzylphthalate	2.0	nd		nd			
Bis(2-ethylhexyl) adipate	2.0	nd		nd			
Benzo(a)anthracene	0.2	nd		nd			
Chrysene	0.2	nd		nd			
Bis (2-ethylhexyl) phthalate	2.0	nd		nd			
Di-n-octyl phthalate	2.0	nd		nd			
Benzo(b)fluoranthene	0.2	nd		nd			
Benzo(k)fluoranthene	0.2	nd		nd			
Benzo(a)pyrene	0.2	nd	55%	nd			
Dibenzo(a,h)anthracene	0.2	nd		nd			
Benzo(ghi)perylene	0.2	nd		nd			
Indeno(1,2,3-cd)pyrene	0.2	nd		nd			

ESN NW BELLEVUE CHEMISTRY LABORATORY
 Tel(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71016.4
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Sprague Lake
 Client Job Number:

Analytical Results

8270, µg/L		MTH BLK	LCS	Finnel Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	10/22/07	10/22/07	10/18/07	10/22/07	10/22/07	
Date analyzed	Limits	10/22/07	10/22/07	10/22/07	10/22/07	10/22/07	

Surrogate recoveries

2-Fluorophenol	84%				57%	60%
Phenol-d6	86%				61%	64%
Nitrobenzene-d5	92%	50%		57%	69%	70%
2-Fluorobiphenyl	116%	64%		119%	118%	120%
2,4,6-Tribromophenol	115%				113%	124%
4-Terphenyl-d14	102%	80%		108%	103%	127%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

Acceptable Recovery limits:

2-Fluorophenol: 10-135 %
 Phenol - d5: 10-135 %
 2,4,6- tribromophenol: 29-159%
 Nitrobenzene - d5: 20-120 %
 2-Fluorobiphenyl: 50-150%
 p-Terphenyl-d14: 50-150%
 Acceptable RPD limit: 35%

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

ESN Job Number: S71109.1
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Sprague Lake
 Client Job Number:

Analytical Results

8260, µg/L	MTH BLK	LCS	Sprague Lake	MS	MSD	RPD	
Matrix	Water	Water	Water	Water	Water	Water	
Sample Collected	Reporting			11/08/07			
Date analyzed	Limits	11/13/07	11/13/07	11/13/07	11/13/07		
Dichlorodifluoromethane	1.0	nd		nd			
Chloromethane	1.0	nd		nd			
Vinyl chloride	0.2	nd		nd			
Bromomethane	1.0	nd		nd			
Chloroethane	1.0	nd		nd			
Trichlorofluoromethane	1.0	nd		nd			
Acetone	10.0	nd		nd			
1,1-Dichloroethene	1.0	nd	90%	nd	96%	94%	2%
Methylene chloride	10.0	nd		nd			
Methyl-t-butyl ether (MTBE)	1.0	nd		nd			
trans-1,2-Dichloroethene	1.0	nd		nd			
1,1-Dichloroethane	1.0	nd		nd			
n-Hexane	1.0	nd		nd			
2-Butanone (MEK)	10.0	nd		nd			
cis-1,2-Dichloroethene	1.0	nd		nd			
2,2-Dichloropropane	1.0	nd		nd			
Chloroform	1.0	nd		nd			
Bromochloromethane	1.0	nd		nd			
1,1,1-Trichloroethane	1.0	nd		nd			
1,2-Dichloroethane (EDC)	1.0	nd		nd			
1,1-Dichloropropene	1.0	nd		nd			
Carbon tetrachloride	1.0	nd		nd			
Benzene	1.0	nd	102%	nd	106%	101%	5%
Trichloroethene (TCE)	1.0	nd	104%	nd	106%	104%	2%
1,2-Dichloropropane	1.0	nd		nd			
Dibromomethane	1.0	nd		nd			
Bromodichloromethane	1.0	nd		nd			
4-Methyl-2-pentanone (MIBK)	1.0	nd		nd			
cis-1,3-Dichloropropene	1.0	nd		nd			
Toluene	1.0	nd	105%	nd	112%	110%	2%
trans-1,3-Dichloropropene	1.0	nd		nd			
1,1,2-Trichloroethane	1.0	nd		nd			
2-Hexanone	1.0	nd		nd			
1,3-Dichloropropane	1.0	nd		nd			
Dibromochloromethane	1.0	nd		nd			
Tetrachloroethene (PCE)	1.0	nd		nd			
1,2-Dibromoethane (EDB)	0.10	nd		nd			
Chlorobenzene	1.0	nd	114%	nd	120%	119%	1%
1,1,1,2-Tetrachloroethane	1.0	nd		nd			
Ethylbenzene	1.0	nd		nd			
Xylenes	1.0	nd		nd			
Styrene	1.0	nd		nd			
Bromoform	1.0	nd		nd			
1,1,2,2-Tetrachloroethane	1.0	nd		nd			
Isopropylbenzene	1.0	nd		nd			
1,2,3-Trichloropropane	1.0	nd		nd			
Bromobenzene	1.0	nd		nd			
n-Propylbenzene	1.0	nd		nd			
2-Chlorotoluene	1.0	nd		nd			
4-Chlorotoluene	1.0	nd		nd			
1,3,5-Trimethylbenzene	1.0	nd		nd			
tert-Butylbenzene	1.0	nd		nd			
1,2,4-Trimethylbenzene	1.0	nd		nd			
sec-Butylbenzene	1.0	nd		nd			
1,3-Dichlorobenzene	1.0	nd		nd			
1,4-Dichlorobenzene	1.0	nd		nd			
Isopropyltoluene	1.0	nd		nd			
1,2-Dichlorobenzene	1.0	nd		nd			
n-Butylbenzene	1.0	nd		nd			
1,2-Dibromo-3-Chloropropane	1.0	nd		nd			
1,2,4-Trichlorobenzene	1.0	nd		nd			
Naphthalene	1.0	nd		nd			
Hexachloro-1,3-butadiene	1.0	nd		nd			
1,2,3-Trichlorobenzene	1.0	nd		nd			

*Instrument detection limits

ESN SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

ESN Job Number: S71109.1
Client: Washington Department of Fish and Wildlife
Client Job Name: Sprague Lake
Client Job Number:

Analytical Results

8260, µg/L	MTH BLK	LCS	Sprague Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water
Sample Collected	Reporting		11/08/07			
Date analyzed	Limits	11/13/07	11/13/07	11/13/07	11/13/07	11/13/07

Surrogate recoveries:

Dibromofluoromethane	127%	124%	133%	127%	128%
Toluene-d8	104%	105%	105%	104%	105%
4-Bromofluorobenzene	101%	101%	99%	99%	101%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
J - estimated quantitation, below listed reporting limits
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

ESN NW BELLEVUE CHEMISTRY LABORATORY
Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71109.1
Client: Washington Department of Fish and Wildlife
Client Job Name: Sprague Lake
Client Job Number:

Analytical Results

8270, µg/L	MTH BLK	LCS	Sprague Lake	MS	MSD	RPD	
Matrix	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	11/19/07	11/19/07	11/14/07	11/19/07	11/19/07	
Date analyzed	Limits	11/19/07	11/19/07	11/19/07	11/19/07	11/19/07	
Sample collected	11/08/07						
Pyridine	2.0	nd		nd			
Aniline	2.0	nd		nd			
Phenol	2.0	nd		nd	102%	100%	2%
2-Chlorophenol	2.0	nd		nd	115%	119%	3%
Bis (2-chloroethyl) ether	2.0	nd		nd			
1,3-Dichlorobenzene	2.0	nd		nd			
1,4-Dichlorobenzene	2.0	nd	120%	nd	105%	107%	2%
1,2-Dichlorobenzene	2.0	nd		nd			
N-methylpyrrolidone	2.0	nd		nd			
Benzyl alcohol	2.0	nd		nd			
2-Methylphenol (o-cresol)	2.0	nd		nd			
Bis (2-chloroisopropyl) ether	10.0	nd		nd			
3,4-Methylphenol (m,p-cresol)	2.0	nd		nd			
Hexachloroethane	2.0	nd		nd			
N-Nitroso-di-n-propylamine	2.0	nd		nd	113%	115%	2%
Nitrobenzene	2.0	nd		nd			
Isophorone	2.0	nd		nd			
2-Nitrophenol	10.0	nd		nd			
4-Nitrophenol	10.0	nd		nd	75%	79%	5%
2,4-Dimethylphenol	2.0	nd		nd			
Bis (2-chloroethoxy) methane	2.0	nd		nd			
2,4-Dichlorophenol	10.0	nd		nd			
1,2,4-Trichlorobenzene	2.0	nd		nd			
Naphthalene	2.0	nd		nd			
4-Chloroaniline	10.0	nd		nd			
Hexachlorobutadiene	2.0	nd	120%	nd			
4-Chloro-3-methylphenol	10.0	nd		nd	79%	81%	3%
2-Methylnaphthalene	2.0	nd		nd			
1-Methylnaphthalene	2.0	nd		nd			
Hexachlorocyclopentadiene	2.0	nd		nd			
2,4,6-Trichlorophenol	10.0	nd		nd			
2,4,5-Trichlorophenol	10.0	nd		nd			
2-Chloronaphthalene	2.0	nd		nd			
2-Nitroaniline	10.0	nd		nd			
1,4-Dinitrobenzene	10.0	nd		nd			
Dimethylphthalate	2.0	nd		nd			
Acenaphthylene	0.2	nd		nd			
1,3-Dinitrobenzene	10.0	nd		nd			
2,6-Dinitrotoluene	2.0	nd		nd			
1,2-Dinitrobenzene	2.0	nd		nd			
Acenaphthene	0.2	nd	100%	nd	88%	91%	3%
3-Nitroaniline	10.0	nd		nd			
Dibenzofuran	2.0	nd		nd			
2,4-Dinitrotoluene	2.0	nd		nd			
2,3,4,6-Tetrachlorophenol	2.0	nd		nd			
2,3,5,6-Tetrachlorophenol	2.0	nd		nd			
2,4-Dinitrophenol	10.0	nd		nd			
Fluorene	0.2	nd		nd			
4-Chlorophenylphenylether	2.0	nd		nd			
Diethylphthalate	2.0	nd		nd			
4-Nitroaniline	10.0	nd		nd			
4,6-Dinitro-2-methylphenol	10.0	nd		nd			
N-nitrosodiphenylamine	2.0	nd		nd			
Azobenzene	2.0	nd		nd			
4-Bromophenylphenylether	2.0	nd		nd			
Hexachlorobenzene	2.0	nd		nd			
Pentachlorophenol	10.0	nd		nd	102%	103%	2%
Phenanthrene	0.2	nd		nd			
Anthracene	0.2	nd		nd			
Carbazole	2.0	nd		nd			
Di-n-butylphthalate	2.0	nd		nd			
Fluoranthene	0.2	nd	122%	nd			
Pyrene	0.2	nd		nd	99%	104%	5%
Butylbenzylphthalate	2.0	nd		nd			
Bis(2-ethylhexyl) adipate	2.0	nd		nd			
Benzo(a)anthracene	0.2	nd		nd			
Chrysene	0.2	nd		nd			
Bis (2-ethylhexyl) phthalate	2.0	nd		nd			
Di-n-octyl phthalate	2.0	nd		nd			
Benzo(b)fluoranthene	0.2	nd		nd			
Benzo(k)fluoranthene	0.2	nd		nd			
Benzo(a)pyrene	0.2	nd	110%	nd			
Dibenzo(a,h)anthracene	0.2	nd		nd			
Benzo(ghi)perylene	0.2	nd		nd			
Indeno(1,2,3-cd)pyrene	0.2	nd		nd			

ESN NW BELLEVUE CHEMISTRY LABORATORY
 Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71109.1
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Sprague Lake
 Client Job Number:

Analytical Results

8270, µg/L		MTH BLK	LCS	Sprague Lake	MS	MSD	RPD
	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	11/19/07	11/19/07	11/14/07	11/19/07	11/19/07	
Date analyzed	Limits	11/19/07	11/19/07	11/19/07	11/19/07	11/19/07	
Sample collected				11/08/07			

Surrogate recoveries

2-Fluorophenol	119%			107%	118%
Phenol-d6	120%			109%	111%
Nitrobenzene-d5	114%	66%	72%	108%	100%
2-Fluorobiphenyl	117%	62%	119%	111%	114%
2,4,6-Tribromophenol	129%			126%	128%
4-Terphenyl-d14	124%	78%	118%	116%	131%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

Acceptable Recovery limits:

2-Fluorophenol: 10-135 %
 Phenol - d5: 10-135 %
 2,4,6- tribromophenol: 29-159%
 Nitrobenzene - d5: 20-120 %
 2-Fluorobiphenyl: 50-150%
 p-Terphenyl-d14: 50-150%
 Acceptable RPD limit: 35%

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

ESN Job Number: S71009.2
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Cow Creek
 Client Job Number:

Analytical Results

8260, µg/L	MTH BLK	LCS	Cow Creek	MS	MSD	RPD	
Matrix	Water	Water	Water	Water	Water		
	Reporting						
Date analyzed	Limits	10/14/07	10/14/07	10/14/07	10/14/07	10/14/07	
Dichlorodifluoromethane	1.0	nd		nd			
Chloromethane	1.0	nd		nd			
Vinyl chloride	0.2	nd		nd			
Bromomethane	1.0	nd		nd			
Chloroethane	1.0	nd		nd			
Trichlorofluoromethane	1.0	nd		nd			
Acetone	10.0	nd		nd			
1,1-Dichloroethene	1.0	nd	100%	nd	94%	93%	1%
Methylene chloride	10.0	nd		nd			
Methyl-t-butyl ether (MTBE)	1.0	nd		nd			
trans-1,2-Dichloroethene	1.0	nd		nd			
1,1-Dichloroethane	1.0	nd		nd			
n-Hexane	1.0	nd		nd			
2-Butanone (MEK)	10.0	nd		nd			
cis-1,2-Dichloroethene	1.0	nd		nd			
2,2-Dichloropropane	1.0	nd		nd			
Chloroform	1.0	nd		nd			
Bromochloromethane	1.0	nd		nd			
1,1,1-Trichloroethane	1.0	nd		nd			
1,2-Dichloroethane (EDC)	1.0	nd		nd			
1,1-Dichloropropene	1.0	nd		nd			
Carbon tetrachloride	1.0	nd		nd			
Benzene	1.0	nd	104%	nd	98%	100%	2%
Trichloroethene (TCE)	1.0	nd	104%	nd	99%	101%	2%
1,2-Dichloropropane	1.0	nd		nd			
Dibromomethane	1.0	nd		nd			
Bromodichloromethane	1.0	nd		nd			
4-Methyl-2-pentanone (MIBK)	1.0	nd		nd			
cis-1,3-Dichloropropene	1.0	nd		nd			
Toluene	1.0	nd	105%	nd	101%	102%	1%
trans-1,3-Dichloropropene	1.0	nd		nd			
1,1,2-Trichloroethane	1.0	nd		nd			
2-Hexanone	1.0	nd		nd			
1,3-Dichloropropane	1.0	nd		nd			
Dibromochloromethane	1.0	nd		nd			
Tetrachloroethene (PCE)	1.0	nd		nd			
1,2-Dibromoethane (EDB)	0.10	nd		nd			
Chlorobenzene	1.0	nd	108%	nd	104%	105%	1%
1,1,1,2-Tetrachloroethane	1.0	nd		nd			
Ethylbenzene	1.0	nd		nd			
Xylenes	1.0	nd		nd			
Styrene	1.0	nd		nd			
Bromoform	1.0	nd		nd			
1,1,2,2-Tetrachloroethane	1.0	nd		nd			
Isopropylbenzene	1.0	nd		nd			
1,2,3-Trichloropropane	1.0	nd		nd			
Bromobenzene	1.0	nd		nd			
n-Propylbenzene	1.0	nd		nd			
2-Chlorotoluene	1.0	nd		nd			
4-Chlorotoluene	1.0	nd		nd			
1,3,5-Trimethylbenzene	1.0	nd		nd			
tert-Butylbenzene	1.0	nd		nd			
1,2,4-Trimethylbenzene	1.0	nd		3.2			
sec-Butylbenzene	1.0	nd		nd			
1,3-Dichlorobenzene	1.0	nd		nd			
1,4-Dichlorobenzene	1.0	nd		nd			
Isopropyltoluene	1.0	nd		nd			
1,2-Dichlorobenzene	1.0	nd		nd			
n-Butylbenzene	1.0	nd		10			
1,2-Dibromo-3-Chloropropane	1.0	nd		nd			
1,2,4-Trichlorobenzene	1.0	nd		nd			
Naphthalene	1.0	nd		86			
Hexachloro-1,3-butadiene	1.0	nd		nd			
1,2,3-Trichlorobenzene	1.0	nd		nd			

*-Instrument detection limits

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

ESN Job Number: S71009.2
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Cow Creek
 Client Job Number:

Analytical Results

8260, µg/L	MTH BLK		LCS	Cow Creek	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water	
	Reporting						
Date analyzed	Limits	10/14/07	10/14/07	10/14/07	10/14/07	10/14/07	10/14/07

Surrogate recoveries:

Dibromofluoromethane	116%	112%	115%	110%	111%
Toluene-d8	98%	97%	98%	97%	97%
4-Bromofluorobenzene	98%	97%	94%	95%	94%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

J - estimated quantitation, below listed reporting limits

Acceptable Recovery limits: 65% TO 135%

Acceptable RPD limit: 35%

ESN NW BELLEVUE CHEMISTRY LABORATORY
Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71009.2
Client: Washington Department of Fish and Wildlife
Client Job Name: Cow Creek
Client Job Number:

Analytical Results

8270, µg/L	MTH BLK		LCS Cow Creek		MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	10/09/07	10/09/07	10/09/07	10/09/07	10/09/07	
Date analyzed	Limits	10/10/07	10/10/07	10/11/07	10/10/07	10/10/07	
Pyridine	2.0	nd		nd			
Aniline	2.0	nd		nd			
Phenol	2.0	nd		nd	100%	106%	6%
2-Chlorophenol	2.0	nd		nd	113%	119%	5%
Bis (2-chloroethyl) ether	2.0	nd		nd			
1,3-Dichlorobenzene	2.0	nd		nd			
1,4-Dichlorobenzene	2.0	nd	49%	nd	43%	44%	2%
1,2-Dichlorobenzene	2.0	nd		nd			
N-methylpyrrolidone	2.0	nd		nd			
Benzyl alcohol	2.0	nd		nd			
2-Methylphenol (o-cresol)	2.0	nd		nd			
Bis (2-chloroisopropyl) ether	10.0	nd		nd			
3,4-Methylphenol (m,p-cresol)	2.0	nd		nd			
Hexachloroethane	2.0	nd		nd			
N-Nitroso-di-n-propylamine	2.0	nd		nd	104%	105%	1%
Nitrobenzene	2.0	nd		nd			
Isophorone	2.0	nd		nd			
2-Nitrophenol	10.0	nd		nd			
4-Nitrophenol	10.0	nd		nd	53%	56%	6%
2,4-Dimethylphenol	2.0	nd		nd			
Bis (2-chloroethoxy) methane	2.0	nd		nd			
2,4-Dichlorophenol	10.0	nd		nd			
1,2,4-Trichlorobenzene	2.0	nd		nd	69%	70%	1%
Naphthalene	2.0	nd		25			
4-Chloroaniline	10.0	nd		nd			
Hexachlorobutadiene	2.0	nd	112%	nd			
4-Chloro-3-methylphenol	10.0	nd		nd	62%	6%	164%
2-Methylnaphthalene	2.0	nd		6.5			
1-Methylnaphthalene	2.0	nd		3.5			
Hexachlorocyclopentadiene	2.0	nd		nd			
2,4,6-Trichlorophenol	10.0	nd		nd			
2,4,5-Trichlorophenol	10.0	nd		nd			
2-Chloronaphthalene	2.0	nd		nd			
2-Nitroaniline	10.0	nd		nd			
1,4-Dinitrobenzene	10.0	nd		nd			
Dimethylphthalate	2.0	nd		nd			
Acenaphthylene	0.2	nd		nd			
1,3-Dinitrobenzene	10.0	nd		nd			
2,6-Dinitrotoluene	2.0	nd		nd			
1,2-Dinitrobenzene	2.0	nd		nd			
Acenaphthene	0.2	nd	108%	nd	93%	97%	4%
3-Nitroaniline	10.0	nd		nd			
Dibenzofuran	2.0	nd		nd			
2,4-Dinitrotoluene	2.0	nd		nd			
2,3,4,6-Tetrachlorophenol	2.0	nd		nd			
2,3,5,6-Tetrachlorophenol	2.0	nd		nd			
2,4-Dinitrophenol	10.0	nd		nd			
Fluorene	0.2	nd		nd			
4-Chlorophenylphenylether	2.0	nd		nd			
Diethylphthalate	2.0	nd		nd			
4-Nitroaniline	10.0	nd		nd			
4,6-Dinitro-2-methylphenol	10.0	nd		nd			
N-nitrosodiphenylamine	2.0	nd		nd			
Azobenzene	2.0	nd		nd			
4-Bromophenylphenylether	2.0	nd		nd			
Hexachlorobenzene	2.0	nd		nd			
Pentachlorophenol	10.0	nd		nd	52%	57%	9%
Phenanthrene	0.2	nd		nd			
Anthracene	0.2	nd		nd			
Carbazole	2.0	nd		nd			
Di-n-butylphthalate	2.0	nd		nd			
Fluoranthene	0.2	nd	101%	nd			
Pyrene	0.2	nd		nd	83%	85%	2%
Butylbenzylphthalate	2.0	nd		nd			
Bis(2-ethylhexyl) adipate	2.0	nd		nd			
Benzo(a)anthracene	0.2	nd		nd			
Chrysene	0.2	nd		nd			
Bis (2-ethylhexyl) phthalate	2.0	nd		nd			
Di-n-octyl phthalate	2.0	nd	104%	nd			
Benzo(b)fluoranthene	0.2	nd		nd			
Benzo(k)fluoranthene	0.2	nd		nd			
Benzo(a)pyrene	0.2	nd	84%	nd			
Dibenzo(a,h)anthracene	0.2	nd		nd			
Benzo(ghi)perylene	0.2	nd		nd			
Indeno(1,2,3-cd)pyrene	0.2	nd		nd			

ESN NW BELLEVUE CHEMISTRY LABORATORY
 Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71009.2
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Cow Creek
 Client Job Number:

Analytical Results

8270, µg/L	MTH BLK		LCS Cow Creek		MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	10/09/07	10/09/07	10/09/07	10/09/07	10/09/07	10/09/07
Date analyzed	Limits	10/10/07	10/10/07	10/11/07	10/10/07	10/10/07	

Surrogate recoveries

2-Fluorophenol	112%			72%	76%
Phenol-d6	120%			92%	97%
Nitrobenzene-d5	99%	77%	42%	117%	111%
2-Fluorobiphenyl	98%	55%	124%	85%	87%
2,4,6-Tribromophenol	81%			89%	87%
4-Terphenyl-d14	85%	53%	129%	79%	80%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

Acceptable Recovery limits:

- 2-Fluorophenol: 10-135 %
- Phenol - d5: 10-135 %
- 2,4,6- tribromophenol: 29-159%
- Nitrobenzene - d5: 20-120 %
- 2-Fluorobiphenyl: 50-150%
- p-Terphenyl-d14: 50-150%
- Acceptable RPD limit: 35%

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

ESN Job Number: S71107.2
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Cow Creek
 Client Job Number:

Analytical Results

8260, µg/L	MTH BLK		LCS Cow Creek		MS	MSD	RPD	
	Water	Water	Water	Water	Water	Water		
Matrix	Reporting		11/02/07					
Sample Collected	Limits		11/08/07	11/08/07	11/08/07	11/08/07		
Dichlorodifluoromethane	1.0	nd			nd			
Chloromethane	1.0	nd			nd			
Vinyl chloride	0.2	nd			nd			
Bromomethane	1.0	nd			nd			
Chloroethane	1.0	nd			nd			
Trichlorofluoromethane	1.0	nd			nd			
Acelone	10.0	nd			nd			
1,1-Dichloroethene	1.0	nd	94%		nd	98%	91%	7%
Methylene chloride	10.0	nd			nd			
Methyl-t-butyl ether (MTBE)	1.0	nd			nd			
trans-1,2-Dichloroethene	1.0	nd			nd			
1,1-Dichloroethane	1.0	nd			nd			
n-Hexane	1.0	nd			nd			
2-Butanone (MEK)	10.0	nd			nd			
cis-1,2-Dichloroethene	1.0	nd			nd			
2,2-Dichloropropane	1.0	nd			nd			
Chloroform	1.0	nd			nd			
Bromochloromethane	1.0	nd			nd			
1,1,1-Trichloroethane	1.0	nd			nd			
1,2-Dichloroethane (EDC)	1.0	nd			nd			
1,1-Dichloropropene	1.0	nd			nd			
Carbon tetrachloride	1.0	nd			nd			
Benzene	1.0	nd	102%		nd	106%	100%	6%
Trichloroethene (TCE)	1.0	nd	104%		nd	107%	101%	6%
1,2-Dichloropropane	1.0	nd			nd			
Dibromomethane	1.0	nd			nd			
Bromodichloromethane	1.0	nd			nd			
4-Methyl-2-pentanone (MIBK)	1.0	nd			nd			
cis-1,3-Dichloropropene	1.0	nd			nd			
Toluene	1.0	nd	108%		nd	116%	109%	6%
trans-1,3-Dichloropropene	1.0	nd			nd			
1,1,2-Trichloroethane	1.0	nd			nd			
2-Hexanone	1.0	nd			nd			
1,3-Dichloropropane	1.0	nd			nd			
Dibromochloromethane	1.0	nd			nd			
Tetrachloroethene (PCE)	1.0	nd			nd			
1,2-Dibromoethane (EDB)	0.10	nd			nd			
Chlorobenzene	1.0	nd	117%		nd	125%	118%	6%
1,1,1,2-Tetrachloroethane	1.0	nd			nd			
Ethylbenzene	1.0	nd			nd			
Xylenes	1.0	nd			nd			
Styrene	1.0	nd			nd			
Bromoform	1.0	nd			nd			
1,1,2,2-Tetrachloroethane	1.0	nd			nd			
Isopropylbenzene	1.0	nd			nd			
1,2,3-Trichloropropane	1.0	nd			nd			
Bromobenzene	1.0	nd			nd			
n-Propylbenzene	1.0	nd			nd			
2-Chlorotoluene	1.0	nd			nd			
4-Chlorotoluene	1.0	nd			nd			
1,3,5-Trimethylbenzene	1.0	nd			nd			
tert-Butylbenzene	1.0	nd			nd			
1,2,4-Trimethylbenzene	1.0	nd			nd			
sec-Butylbenzene	1.0	nd			nd			
1,3-Dichlorobenzene	1.0	nd			nd			
1,4-Dichlorobenzene	1.0	nd			nd			
Isopropyltoluene	1.0	nd			nd			
1,2-Dichlorobenzene	1.0	nd			nd			
n-Butylbenzene	1.0	nd			nd			
1,2-Dibromo-3-Chloropropane	1.0	nd			nd			
1,2,4-Trichlorobenzene	1.0	nd			nd			
Naphthalene	1.0	nd			nd			
Hexachloro-1,3-butadiene	1.0	nd			nd			
1,2,3-Trichlorobenzene	1.0	nd			nd			

*-instrument detection limits

ESN SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

ESN Job Number: S71107.2
Client: Washington Department of Fish and Wildlife
Client Job Name: Cow Creek
Client Job Number:

Analytical Results

8260, µg/L	MTH BLK	LCS	Cow Creek	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water
Sample Collected	Reporting			11/02/07		
Date analyzed	Limits	11/08/07	11/08/07	11/08/07	11/08/07	11/08/07

Surrogate recoveries:

Dibromofluoromethane	134%	126%	133%	128%	129%
Toluene-d8	105%	105%	106%	108%	106%
4-Bromofluorobenzene	101%	103%	99%	100%	100%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

J - estimated quantitation, below listed reporting limits

Acceptable Recovery limits: 65% TO 135%

Acceptable RPD limit: 35%

ESN NW BELLEVUE CHEMISTRY LABORATORY
Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71107.2
Client: Washington Department of Fish and Wildlife
Client Job Name: Cow Creek
Client Job Number:

Analytical Results

8270, µg/L	MTH BLK		LCS		Cow Creek		MS	MSD	RPD
	Water	Water	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07	
Date analyzed	Limits	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07	
Sample collected					11/02/07				
Pyridine	2.0	nd			nd				
Aniline	2.0	nd			nd				
Phenol	2.0	nd			nd	75%	78%	4%	
2-Chlorophenol	2.0	nd			nd	97%	100%	3%	
Bis (2-chloroethyl) ether	2.0	nd			nd				
1,3-Dichlorobenzene	2.0	nd			nd				
1,4-Dichlorobenzene	2.0	nd	101%		nd	105%	107%	2%	
1,2-Dichlorobenzene	2.0	nd			nd				
N-methylpyrrolidone	2.0	nd			nd				
Benzyl alcohol	2.0	nd			nd				
2-Methylphenol (o-cresol)	2.0	nd			nd				
Bis (2-chloroisopropyl) ether	10.0	nd			nd				
3,4-Methylphenol (m,p-cresol)	2.0	nd			nd				
Hexachloroethane	2.0	nd			nd				
N-Nitroso-di-n-propylamine	2.0	nd			nd	92%	95%	3%	
Nitrobenzene	2.0	nd			nd				
Isophorone	2.0	nd			nd				
2-Nitrophenol	10.0	nd			nd				
4-Nitrophenol	10.0	nd			nd	37%	41%	10%	
2,4-Dimethylphenol	2.0	nd			nd				
Bis (2-chloroethoxy) methane	2.0	nd			nd				
2,4-Dichlorophenol	10.0	nd			nd				
1,2,4-Trichlorobenzene	2.0	nd			nd	82%	86%	5%	
Naphthalene	2.0	nd			nd				
4-Chloroaniline	10.0	nd			nd				
Hexachlorobutadiene	2.0	nd	116%		nd				
4-Chloro-3-methylphenol	10.0	nd			nd	100%	103%	3%	
2-Methylnaphthalene	2.0	nd			nd				
1-Methylnaphthalene	2.0	nd			nd				
Hexachlorocyclopentadiene	2.0	nd			nd				
2,4,6-Trichlorophenol	10.0	nd			nd				
2,4,5-Trichlorophenol	10.0	nd			nd				
2-Chloronaphthalene	2.0	nd			nd				
2-Nitroaniline	10.0	nd			nd				
1,4-Dinitrobenzene	10.0	nd			nd				
Dimethylphthalate	2.0	nd			nd				
Acenaphthylene	0.2	nd			nd				
1,3-Dinitrobenzene	10.0	nd			nd				
2,6-Dinitrotoluene	2.0	nd			nd				
1,2-Dinitrobenzene	2.0	nd			nd				
Acenaphthene	0.2	nd	99%		nd	100%	96%	4%	
3-Nitroaniline	10.0	nd			nd				
Dibenzofuran	2.0	nd			nd				
2,4-Dinitrotoluene	2.0	nd			nd				
2,3,4,6-Tetrachlorophenol	2.0	nd			nd				
2,3,5,6-Tetrachlorophenol	2.0	nd			nd				
2,4-Dinitrophenol	10.0	nd			nd				
Fluorene	0.2	nd			nd				
4-Chlorophenylphenylether	2.0	nd			nd				
Diethylphthalate	2.0	nd			nd				
4-Nitroaniline	10.0	nd			nd				
4,6-Dinitro-2-methylphenol	10.0	nd			nd				
N-nitrosodiphenylamine	2.0	nd			nd				
Azobenzene	2.0	nd			nd				
4-Bromophenylphenylether	2.0	nd			nd				
Hexachlorobenzene	2.0	nd			nd				
Pentachlorophenol	10.0	nd			nd	63%	68%	2%	
Phenanthrene	0.2	nd			nd				
Anthracene	0.2	nd			nd				
Carbazole	2.0	nd			nd				
Di-n-butylphthalate	2.0	nd			nd				
Fluoranthene	0.2	nd	107%		nd				
Pyrene	0.2	nd			nd	83%	86%	4%	
Butylbenzylphthalate	2.0	nd			nd				
Bis(2-ethylhexyl) adipate	2.0	nd			nd				
Benzo(a)anthracene	0.2	nd			nd				
Chrysene	0.2	nd			nd				
Bis (2-ethylhexyl) phthalate	2.0	nd			nd				
Di-n-octyl phthalate	2.0	nd			nd				
Benzo(b)fluoranthene	0.2	nd			nd				
Benzo(k)fluoranthene	0.2	nd			nd				
Benzo(a)pyrene	0.2	nd	62%		nd				
Dibenzo(a,h)anthracene	0.2	nd			nd				
Benzo(ghi)perylene	0.2	nd			nd				
Indeno(1,2,3-cd)pyrene	0.2	nd			nd				

ESN NW BELLEVUE CHEMISTRY LABORATORY
 Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71107.2
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Cow Creek
 Client Job Number:

Analytical Results

8270, µg/L		MTH BLK	LCS	Cow Creek	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07	
Date analyzed	Limits	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07	
Sample collected				11/02/07			

Surrogate recoveries

2-Fluorophenol	73%			93%	98%
Phenol-d6	82%			97%	103%
Nitrobenzene-d5	65%	49%	43%	71%	73%
2-Fluorobiphenyl	92%	75%	102%	127%	129%
2,4,6-Tribromophenol	66%			106%	116%
4-Terphenyl-d14	80%	65%	95%	113%	112%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

Acceptable Recovery limits:

2-Fluorophenol: 10-135 %

Phenol - d5: 10-135 %

2,4,6-tribromophenol: 29-159%

Nitrobenzene - d5: 20-120 %

2-Fluorobiphenyl: 50-150%

p-Terphenyl-d14: 50-150%

Acceptable RPD limit: 35%

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-8904

ESN Job Number: S71009.4
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Hallin Lake
 Client Job Number:

Analytical Results

8260, µg/L	MTH BLK	LCS Hallin Lake		MS	MSD	RPD	
Matrix	Water	Water	Water	Water	Water		
	Reporting						
Date analyzed	Limits	10/14/07	10/14/07	10/14/07	10/14/07		
Dichlorodifluoromethane	1.0	nd		nd			
Chloromethane	1.0	nd		nd			
Vinyl chloride	0.2	nd		nd			
Bromomethane	1.0	nd		nd			
Chloroethane	1.0	nd		nd			
Trichlorofluoromethane	1.0	nd		nd			
Acetone	10.0	nd		nd			
1,1-Dichloroethene	1.0	nd	100%	nd	94%	93%	1%
Methylene chloride	10.0	nd		nd			
Methyl-t-butyl ether (MTBE)	1.0	nd		nd			
trans-1,2-Dichloroethene	1.0	nd		nd			
1,1-Dichloroethane	1.0	nd		nd			
n-Hexane	1.0	nd		nd			
2-Butanone (MEK)	10.0	nd		nd			
cis-1,2-Dichloroethene	1.0	nd		nd			
2,2-Dichloropropane	1.0	nd		nd			
Chloroform	1.0	nd		nd			
Bromochloromethane	1.0	nd		nd			
1,1,1-Trichloroethane	1.0	nd		nd			
1,2-Dichloroethane (EDC)	1.0	nd		nd			
1,1-Dichloropropene	1.0	nd		nd			
Carbon tetrachloride	1.0	nd		nd			
Benzene	1.0	nd	104%	nd	98%	100%	2%
Trichloroethene (TCE)	1.0	nd	104%	nd	99%	101%	2%
1,2-Dichloropropane	1.0	nd		nd			
Dibromomethane	1.0	nd		nd			
Bromodichloromethane	1.0	nd		nd			
4-Methyl-2-pentanone (MIBK)	1.0	nd		nd			
cis-1,3-Dichloropropene	1.0	nd		nd			
Toluene	1.0	nd	105%	1.1	101%	102%	1%
trans-1,3-Dichloropropene	1.0	nd		nd			
1,1,2-Trichloroethane	1.0	nd		nd			
2-Hexanone	1.0	nd		nd			
1,3-Dichloropropane	1.0	nd		nd			
Dibromochloromethane	1.0	nd		nd			
Tetrachloroethene (PCE)	1.0	nd		nd			
1,2-Dibromoethane (EDB)	0.10	nd		nd			
Chlorobenzene	1.0	nd	108%	nd	104%	105%	1%
1,1,1,2-Tetrachloroethane	1.0	nd		nd			
Ethylbenzene	1.0	nd		nd			
Xylenes	1.0	nd		nd			
Styrene	1.0	nd		nd			
Bromoform	1.0	nd		nd			
1,1,2,2-Tetrachloroethane	1.0	nd		nd			
Isopropylbenzene	1.0	nd		nd			
1,2,3-Trichloropropane	1.0	nd		nd			
Bromobenzene	1.0	nd		nd			
n-Propylbenzene	1.0	nd		nd			
2-Chloroluene	1.0	nd		nd			
4-Chloroluene	1.0	nd		nd			
1,3,5-Trimethylbenzene	1.0	nd		nd			
tert-Butylbenzene	1.0	nd		nd			
1,2,4-Trimethylbenzene	1.0	nd		nd			
sec-Butylbenzene	1.0	nd		nd			
1,3-Dichlorobenzene	1.0	nd		nd			
1,4-Dichlorobenzene	1.0	nd		nd			
Isopropyltoluene	1.0	nd		nd			
1,2-Dichlorobenzene	1.0	nd		nd			
n-Butylbenzene	1.0	nd		nd			
1,2-Dibromo-3-Chloropropane	1.0	nd		nd			
1,2,4-Trichlorobenzene	1.0	nd		nd			
Naphthalene	1.0	nd		110			
Hexachloro-1,3-butadiene	1.0	nd		nd			
1,2,3-Trichlorobenzene	1.0	nd		nd			

*-instrument detection limits

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

ESN Job Number: S71009.4
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Hallin Lake
 Client Job Number:

Analytical Results

8260, µg/L	MTH BLK	LCS Hallin Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water
	Reporting				
Date analyzed	Limits	10/14/07	10/14/07	10/14/07	10/14/07

Surrogate recoveries:

Dibromofluoromethane	116%	112%	116%	110%	111%
Toluene-d8	98%	97%	98%	97%	97%
4-Bromofluorobenzene	98%	97%	96%	95%	94%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
 J - estimated quantitation, below listed reporting limits
 Acceptable Recovery limits: 65% TO 135%
 Acceptable RPD limit: 35%

ESN NW BELLEVUE CHEMISTRY LABORATORY
Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71009.4
Client: Washington Department of Fish and Wildlife
Client Job Name: Hallin Lake
Client Job Number:

Analytical Results

8270, µg/L	MTH BLK	LCS	Hallin Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water
Date extracted	Reporting	10/09/07	10/09/07	10/09/07	10/09/07	10/09/07
Date analyzed	Limits	10/10/07	10/10/07	10/11/07	10/10/07	10/10/07
Pyridine	2.0	nd	nd			
Aniline	2.0	nd	nd			
Phenol	2.0	nd	nd	100%	106%	6%
2-Chlorophenol	2.0	nd	nd	113%	119%	5%
Bis (2-chloroethyl) ether	2.0	nd	nd			
1,3-Dichlorobenzene	2.0	nd	nd			
1,4-Dichlorobenzene	2.0	nd	49%	43%	44%	2%
1,2-Dichlorobenzene	2.0	nd	nd			
N-methylpyrrolidone	2.0	nd	nd			
Benzyl alcohol	2.0	nd	nd			
2-Methylphenol (o-cresol)	2.0	nd	nd			
Bis (2-chloroisopropyl) ether	10.0	nd	nd			
3,4-Methylphenol (m,p-cresol)	2.0	nd	nd			
Hexachloroethane	2.0	nd	nd			
N-Nitroso-di-n-propylamine	2.0	nd	nd	104%	105%	1%
Nitrobenzene	2.0	nd	nd			
Isophorone	2.0	nd	nd			
2-Nitrophenol	10.0	nd	nd			
4-Nitrophenol	10.0	nd	nd	53%	56%	6%
2,4-Dimethylphenol	2.0	nd	nd			
Bis (2-chloroethoxy) methane	2.0	nd	nd			
2,4-Dichlorophenol	10.0	nd	nd			
1,2,4-Trichlorobenzene	2.0	nd	nd	69%	70%	1%
Naphthalene	2.0	nd	59			
4-Chloroaniline	10.0	nd	nd			
Hexachlorobutadiene	2.0	nd	112%			
4-Chloro-3-methylphenol	10.0	nd	nd	62%	62%	0%
2-Methylnaphthalene	2.0	nd	140			
1-Methylnaphthalene	2.0	nd	73			
Hexachlorocyclopentadiene	2.0	nd	nd			
2,4,6-Trichlorophenol	10.0	nd	nd			
2,4,5-Trichlorophenol	10.0	nd	nd			
2-Chloronaphthalene	2.0	nd	nd			
2-Nitroaniline	10.0	nd	nd			
1,4-Dinitrobenzene	10.0	nd	nd			
Dimethylphthalate	2.0	nd	nd			
Acenaphthylene	0.2	nd	nd			
1,3-Dinitrobenzene	10.0	nd	nd			
2,6-Dinitrotoluene	2.0	nd	nd			
1,2-Dinitrobenzene	2.0	nd	nd			
Acenaphthene	0.2	nd	108%	93%	97%	4%
3-Nitroaniline	10.0	nd	nd			
Dibenzofuran	2.0	nd	nd			
2,4-Dinitrotoluene	2.0	nd	nd			
2,3,4,6-Tetrachlorophenol	2.0	nd	nd			
2,3,5,6-Tetrachlorophenol	2.0	nd	nd			
2,4-Dinitrophenol	10.0	nd	nd			
Fluorene	0.2	nd	0.9			
4-Chlorophenylphenylether	2.0	nd	nd			
Diethylphthalate	2.0	nd	nd			
4-Nitroaniline	10.0	nd	nd			
4,6-Dinitro-2-methylphenol	10.0	nd	nd			
N-nitrosodiphenylamine	2.0	nd	nd			
Azobenzene	2.0	nd	nd			
4-Bromophenylphenylether	2.0	nd	nd			
Hexachlorobenzene	2.0	nd	nd			
Pentachlorophenol	10.0	nd	nd	52%	57%	9%
Phenanthrene	0.2	nd	nd			
Anthracene	0.2	nd	nd			
Carbazole	2.0	nd	nd			
Di-n-butylphthalate	2.0	nd	nd			
Fluoranthene	0.2	nd	101%			
Pyrene	0.2	nd	nd	83%	85%	2%
Butylbenzylphthalate	2.0	nd	nd			
Bis(2-ethylhexyl) adipate	2.0	nd	nd			
Benzo(a)anthracene	0.2	nd	nd			
Chrysene	0.2	nd	nd			
Bis (2-ethylhexyl) phthalate	2.0	nd	nd			
Di-n-octyl phthalate	2.0	nd	nd			
Benzo(b)fluoranthene	0.2	nd	nd			
Benzo(k)fluoranthene	0.2	nd	nd			
Benzo(a)pyrene	0.2	nd	nd			
Dibenzo(a,h)anthracene	0.2	nd	nd			
Benzo(ghi)perylene	0.2	nd	nd			
Indeno(1,2,3-cd)pyrene	0.2	nd	nd			

ESN NW BELLEVUE CHEMISTRY LABORATORY
 Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71009.4
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Hallin Lake
 Client Job Number:

Analytical Results

8270, µg/L	MTH BLK	LCS	Hallin Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water
Date extracted	Reporting	10/09/07	10/09/07	10/09/07	10/09/07	10/09/07
Date analyzed	Limits	10/10/07	10/10/07	10/11/07	10/10/07	10/10/07

Surrogate recoveries

2-Fluorophenol	112%			72%	76%
Phenol-d6	120%			92%	97%
Nitrobenzene-d5	99%	77%	47%	117%	111%
2-Fluorobiphenyl	98%	55%	131%	85%	87%
2,4,6-Tribromophenol	81%			89%	87%
4-Terphenyl-d14	85%	53%	123%	79%	80%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

Acceptable Recovery limits:

2-Fluorophenol: 10-135 %

Phenol - d5: 10-135 %

2,4,6- tribromophenol: 29-159%

Nitrobenzene - d5: 20-120 %

2-Fluorobiphenyl: 50-150%

p-Terphenyl-d14: 50-150%

Acceptable RPD limit: 35%

ESN SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

ESN Job Number: S71106.5
Client: Washington Department of Fish and Wildlife
Client Job Name: Hallin Lake
Client Job Number:

Analytical Results

8260, µg/L	MTH BLK		LCS		Hallin Lake		MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water	Water		
Sample Collected	Reporting				11/02/07				
Date analyzed	Limits	11/08/07	11/08/07	11/08/07	11/08/07	11/08/07	11/08/07		
Dichlorodifluoromethane	1.0	nd			nd				
Chloromethane	1.0	nd			nd				
Vinyl chloride	0.2	nd			nd				
Bromomethane	1.0	nd			nd				
Chloroethane	1.0	nd			nd				
Trichlorofluoromethane	1.0	nd			nd				
Acetone	10.0	nd			nd				
1,1-Dichloroethene	1.0	nd	94%		nd	98%	91%	7%	
Methylene chloride	10.0	nd			nd				
Methyl-t-butyl ether (MTBE)	1.0	nd			nd				
trans-1,2-Dichloroethene	1.0	nd			nd				
1,1-Dichloroethane	1.0	nd			nd				
n-Hexane	1.0	nd			nd				
2-Butanone (MEK)	10.0	nd			nd				
cis-1,2-Dichloroethene	1.0	nd			nd				
2,2-Dichloropropane	1.0	nd			nd				
Chloroform	1.0	nd			nd				
Bromochloromethane	1.0	nd			nd				
1,1,1-Trichloroethane	1.0	nd			nd				
1,2-Dichloroethane (EDC)	1.0	nd			nd				
1,1-Dichloropropene	1.0	nd			nd				
Carbon tetrachloride	1.0	nd			nd				
Benzene	1.0	nd	102%		nd	106%	100%	6%	
Trichloroethene (TCE)	1.0	nd	104%		nd	107%	101%	6%	
1,2-Dichloropropane	1.0	nd			nd				
Dibromomethane	1.0	nd			nd				
Bromodichloromethane	1.0	nd			nd				
4-Methyl-2-pentanone (MIBK)	1.0	nd			nd				
cis-1,3-Dichloropropene	1.0	nd			nd				
Toluene	1.0	nd	108%		nd	116%	109%	6%	
trans-1,3-Dichloropropene	1.0	nd			nd				
1,1,2-Trichloroethane	1.0	nd			nd				
2-Hexanone	1.0	nd			nd				
1,3-Dichloropropane	1.0	nd			nd				
Dibromochloromethane	1.0	nd			nd				
Tetrachloroethene (PCE)	1.0	nd			nd				
1,2-Dibromoethane (EDB)	0.10	nd			nd				
Chlorobenzene	1.0	nd	117%		nd	125%	118%	6%	
1,1,1,2-Tetrachloroethane	1.0	nd			nd				
Ethylbenzene	1.0	nd			nd				
Xylenes	1.0	nd			nd				
Styrene	1.0	nd			nd				
Bromoform	1.0	nd			nd				
1,1,2,2-Tetrachloroethane	1.0	nd			nd				
Isopropylbenzene	1.0	nd			nd				
1,2,3-Trichloropropane	1.0	nd			nd				
Bromobenzene	1.0	nd			nd				
n-Propylbenzene	1.0	nd			nd				
2-Chlorotoluene	1.0	nd			nd				
4-Chlorotoluene	1.0	nd			nd				
1,3,5-Trimethylbenzene	1.0	nd			nd				
tert-Butylbenzene	1.0	nd			nd				
1,2,4-Trimethylbenzene	1.0	nd			nd				
sec-Butylbenzene	1.0	nd			nd				
1,3-Dichlorobenzene	1.0	nd			nd				
1,4-Dichlorobenzene	1.0	nd			nd				
Isopropyltoluene	1.0	nd			nd				
1,2-Dichlorobenzene	1.0	nd			nd				
n-Butylbenzene	1.0	nd			nd				
1,2-Dibromo-3-Chloropropane	1.0	nd			nd				
1,2,4-Trichlorobenzene	1.0	nd			nd				
Naphthalene	1.0	nd			nd				
Hexachloro-1,3-butadiene	1.0	nd			nd				
1,2,3-Trichlorobenzene	1.0	nd			nd				

*-instrument detection limits

ESN SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

ESN Job Number: S71106.5
Client: Washington Department of Fish and Wildlife
Client Job Name: Hallin Lake
Client Job Number:

Analytical Results

8260, µg/L	MTH BLK	LCS	Hallin Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	
Sample Collected	Reporting		11/02/07			
Date analyzed	Limits	11/08/07	11/08/07	11/08/07	11/08/07	11/08/07

Surrogate recoveries:

Dibromofluoromethane	134%	126%	134%	128%	129%	
Toluene-d8	105%	105%	107%	108%	106%	
4-Bromofluorobenzene	101%	103%	99%	100%	100%	

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
J - estimated quantitation, below listed reporting limits
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

ESN NW BELLEVUE CHEMISTRY LABORATORY
 Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71106.5
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Hallin Lake
 Client Job Number:

Analytical Results

8270, µg/L	MTH BLK		LCS Hallin Lake		MS	MSD	RPD
	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07	
Date analyzed	Limits	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07	
Sample collected				11/02/07			
Pyridine	2.0	nd		nd			
Aniline	2.0	nd		nd			
Phenol	2.0	nd		nd	75%	78%	4%
2-Chlorophenol	2.0	nd		nd	97%	100%	3%
Bis (2-chloroethyl) ether	2.0	nd		nd			
1,3-Dichlorobenzene	2.0	nd		nd			
1,4-Dichlorobenzene	2.0	nd	101%	nd	105%	107%	2%
1,2-Dichlorobenzene	2.0	nd		nd			
N-methylpyrrolidone	2.0	nd		nd			
Benzyl alcohol	2.0	nd		nd			
2-Methylphenol (o-cresol)	2.0	nd		nd			
Bis (2-chloroisopropyl) ether	10.0	nd		nd			
3,4-Methylphenol (m,p-cresol)	2.0	nd		nd			
Hexachloroethane	2.0	nd		nd			
N-Nitroso-di-n-propylamine	2.0	nd		nd	92%	95%	3%
Nitrobenzene	2.0	nd		nd			
Isophorone	2.0	nd		nd			
2-Nitrophenol	10.0	nd		nd			
4-Nitrophenol	10.0	nd		nd	37%	41%	10%
2,4-Dimethylphenol	2.0	nd		nd			
Bis (2-chloroethoxy) methane	2.0	nd		nd			
2,4-Dichlorophenol	10.0	nd		nd			
1,2,4-Trichlorobenzene	2.0	nd		nd	82%	86%	5%
Naphthalene	2.0	nd		nd			
4-Chloroaniline	10.0	nd		nd			
Hexachlorobutadiene	2.0	nd	116%	nd			
4-Chloro-3-methylphenol	10.0	nd		nd	100%	103%	3%
2-Methylnaphthalene	2.0	nd		nd			
1-Methylnaphthalene	2.0	nd		nd			
Hexachlorocyclopentadiene	2.0	nd		nd			
2,4,6-Trichlorophenol	10.0	nd		nd			
2,4,5-Trichlorophenol	10.0	nd		nd			
2-Chloronaphthalene	2.0	nd		nd			
2-Nitroaniline	10.0	nd		nd			
1,4-Dinitrobenzene	10.0	nd		nd			
Dimethylphthalate	2.0	nd		nd			
Acenaphthylene	0.2	nd		nd			
1,3-Dinitrobenzene	10.0	nd		nd			
2,6-Dinitrotoluene	2.0	nd		nd			
1,2-Dinitrobenzene	2.0	nd		nd			
Acenaphthene	0.2	nd	99%	nd	100%	96%	4%
3-Nitroaniline	10.0	nd		nd			
Dibenzofuran	2.0	nd		nd			
2,4-Dinitrotoluene	2.0	nd		nd			
2,3,4,6-Tetrachlorophenol	2.0	nd		nd			
2,3,5,6-Tetrachlorophenol	2.0	nd		nd			
2,4-Dinitrophenol	10.0	nd		nd			
Fluorene	0.2	nd		nd			
4-Chlorophenylphenylether	2.0	nd		nd			
Diethylphthalate	2.0	nd		nd			
4-Nitroaniline	10.0	nd		nd			
4,6-Dinitro-2-methylphenol	10.0	nd		nd			
N-nitrosodiphenylamine	2.0	nd		nd			
Azobenzene	2.0	nd		nd			
4-Bromophenylphenylether	2.0	nd		nd			
Hexachlorobenzene	2.0	nd		nd			
Pentachlorophenol	10.0	nd		nd	63%	68%	2%
Phenanthrene	0.2	nd		nd			
Anthracene	0.2	nd		nd			
Carbazole	2.0	nd		nd			
Di-n-butylphthalate	2.0	nd		nd			
Fluoranthene	0.2	nd	107%	nd			
Pyrene	0.2	nd		nd	83%	86%	4%
Butylbenzylphthalate	2.0	nd		nd			
Bis(2-ethylhexyl) adipate	2.0	nd		nd			
Benzo(a)anthracene	0.2	nd		nd			
Chrysene	0.2	nd		nd			
Bis (2-ethylhexyl) phthalate	2.0	nd		nd			
Di-n-octyl phthalate	2.0	nd		nd			
Benzo(b)fluoranthene	0.2	nd		nd			
Benzo(k)fluoranthene	0.2	nd		nd			
Benzo(a)pyrene	0.2	nd	62%	nd			
Dibenzo(a,h)anthracene	0.2	nd		nd			
Benzo(ghi)perylene	0.2	nd		nd			
Indeno(1,2,3-cd)pyrene	0.2	nd		nd			

ESN NW BELLEVUE CHEMISTRY LABORATORY
Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71106.5
Client: Washington Department of Fish and Wildlife
Client Job Name: Hallin Lake
Client Job Number:

Analytical Results

8270, µg/L		MTH BLK	LCS	Hallin Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07	
Date analyzed	Limits	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07	
Sample collected				11/02/07			

Surrogate recoveries

2-Fluorophenol	73%			93%	98%
Phenol-d6	82%			97%	103%
Nitrobenzene-d5	65%	49%	48%	71%	73%
2-Fluorobiphenyl	92%	75%	125%	127%	129%
2,4,6-Tribromophenol	66%			106%	116%
4-Terphenyl-d14	80%	65%	112%	113%	112%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

Acceptable Recovery limits:

2-Fluorophenol: 10-135 %
Phenol - d5: 10-135 %
2,4,6- tribromophenol: 29-159%
Nitrobenzene - d5: 20-120 %
2-Fluorobiphenyl: 50-150%
p-Terphenyl-d14: 50-150%
Acceptable RPD limit: 35%

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

ESN Job Number: S71009.3
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Cow Lake
 Client Job Number:

Analytical Results

8260, µg/L Matrix	MTH BLK		LCS Cow Lake		MS	MSD	RPD
	Water	Water	Water	Water	Water	Water	
Date analyzed	Reporting Limits	10/14/07	10/14/07	10/14/07	10/14/07	10/14/07	
Dichlorodifluoromethane	1.0	nd		nd			
Chloromethane	1.0	nd		nd			
Vinyl chloride	0.2	nd		nd			
Bromomethane	1.0	nd		nd			
Chloroethane	1.0	nd		nd			
Trichlorofluoromethane	1.0	nd		nd			
Acetone	10.0	nd		nd			
1,1-Dichloroethene	1.0	nd	100%	nd	94%	93%	1%
Methylene chloride	10.0	nd		nd			
Methyl-t-butyl ether (MTBE)	1.0	nd		nd			
trans-1,2-Dichloroethene	1.0	nd		nd			
1,1-Dichloroethane	1.0	nd		nd			
n-Hexane	1.0	nd		nd			
2-Butanone (MEK)	10.0	nd		nd			
cis-1,2-Dichloroethene	1.0	nd		nd			
2,2-Dichloropropane	1.0	nd		nd			
Chloroform	1.0	nd		nd			
Bromochloromethane	1.0	nd		nd			
1,1,1-Trichloroethane	1.0	nd		nd			
1,2-Dichloroethane (EDC)	1.0	nd		nd			
1,1-Dichloropropene	1.0	nd		nd			
Carbon tetrachloride	1.0	nd		nd			
Benzene	1.0	nd	104%	nd	98%	100%	2%
Trichloroethene (TCE)	1.0	nd	104%	nd	98%	101%	2%
1,2-Dichloropropane	1.0	nd		nd			
Dibromomethane	1.0	nd		nd			
Bromodichloromethane	1.0	nd		nd			
4-Methyl-2-pentanone (MIBK)	1.0	nd		nd			
cis-1,3-Dichloropropene	1.0	nd		nd			
Toluene	1.0	nd	105%	nd	101%	102%	1%
trans-1,3-Dichloropropene	1.0	nd		nd			
1,1,2-Trichloroethane	1.0	nd		nd			
2-Hexanone	1.0	nd		nd			
1,3-Dichloropropane	1.0	nd		nd			
Dibromochloromethane	1.0	nd		nd			
Tetrachloroethene (PCE)	1.0	nd		nd			
1,2-Dibromoethane (EDB)	0.10	nd		nd			
Chlorobenzene	1.0	nd	108%	nd	104%	105%	1%
1,1,1,2-Tetrachloroethane	1.0	nd		nd			
Ethylbenzene	1.0	nd		nd			
Xylenes	1.0	nd		nd			
Styrene	1.0	nd		nd			
Bromoform	1.0	nd		nd			
1,1,2,2-Tetrachloroethane	1.0	nd		nd			
Isopropylbenzene	1.0	nd		nd			
1,2,3-Trichloropropane	1.0	nd		nd			
Bromobenzene	1.0	nd		nd			
n-Propylbenzene	1.0	nd		nd			
2-Chlorotoluene	1.0	nd		nd			
4-Chlorotoluene	1.0	nd		nd			
1,3,5-Trimethylbenzene	1.0	nd		nd			
tert-Butylbenzene	1.0	nd		nd			
1,2,4-Trimethylbenzene	1.0	nd		nd			
sec-Butylbenzene	1.0	nd		nd			
1,3-Dichlorobenzene	1.0	nd		nd			
1,4-Dichlorobenzene	1.0	nd		nd			
Isopropyltoluene	1.0	nd		nd			
1,2-Dichlorobenzene	1.0	nd		nd			
n-Butylbenzene	1.0	nd		nd			
1,2-Dibromo-3-Chloropropane	1.0	nd		nd			
1,2,4-Trichlorobenzene	1.0	nd		nd			
Naphthalene	1.0	nd		45			
Hexachloro-1,3-butadiene	1.0	nd		nd			
1,2,3-Trichlorobenzene	1.0	nd		nd			

*-instrument detection limits

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

ESN Job Number: S71009.3
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Cow Lake
 Client Job Number:

Analytical Results

8260, µg/L	MTH BLK	LCS Cow Lake		MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water
	Reporting					
Date analyzed	Limits	10/14/07	10/14/07	10/14/07	10/14/07	10/14/07

Surrogate recoveries:

Dibromofluoromethane	116%	112%	115%	110%	111%
Toluene-d8	98%	97%	98%	97%	97%
4-Bromofluorobenzene	98%	97%	98%	95%	94%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
 J - estimated quantitation, below listed reporting limits
 Acceptable Recovery limits: 65% TO 135%
 Acceptable RPD limit: 35%

ESN NW BELLEVUE CHEMISTRY LABORATORY
Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71009.3
Client: Washington Department of Fish and Wildlife
Client Job Name: Cow Lake
Client Job Number:

Analytical Results

8270, µg/L	MTH BLK		LCS Cow Lake		MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	10/09/07	10/09/07	10/09/07	10/09/07	10/09/07	10/09/07
Date analyzed	Limits	10/10/07	10/10/07	10/11/07	10/10/07	10/10/07	
Pyridine	2.0	nd		nd			
Aniline	2.0	nd		nd			
Phenol	2.0	nd		nd	100%	106%	6%
2-Chlorophenol	2.0	nd		nd	113%	119%	5%
Bis (2-chloroethyl) ether	2.0	nd		nd			
1,3-Dichlorobenzene	2.0	nd		nd			
1,4-Dichlorobenzene	2.0	nd	49%	nd	43%	44%	2%
1,2-Dichlorobenzene	2.0	nd		nd			
N-methylpyrrolidone	2.0	nd		nd			
Benzyl alcohol	2.0	nd		nd			
2-Methylphenol (o-cresol)	2.0	nd		nd			
Bis (2-chloroisopropyl) ether	10.0	nd		nd			
3,4-Methylphenol (m,p-cresol)	2.0	nd		nd			
Hexachloroethane	2.0	nd		nd			
N-Nitroso-di-n-propylamine	2.0	nd		nd	104%	105%	1%
Nitrobenzene	2.0	nd		nd			
Isophorone	2.0	nd		nd			
2-Nitrophenol	10.0	nd		nd			
4-Nitrophenol	10.0	nd		nd	53%	56%	6%
2,4-Dimethylphenol	2.0	nd		nd			
Bis (2-chloroethoxy) methane	2.0	nd		nd			
2,4-Dichlorophenol	10.0	nd		nd			
1,2,4-Trichlorobenzene	2.0	nd		nd	69%	70%	1%
Naphthalene	2.0	nd		23			
4-Chloroaniline	10.0	nd		nd			
Hexachlorobutadiene	2.0	nd	112%	nd			
4-Chloro-3-methylphenol	10.0	nd		nd	62%	62%	0%
2-Methylnaphthalene	2.0	nd		53			
1-Methylnaphthalene	2.0	nd		28			
Hexachlorocyclopentadiene	2.0	nd		nd			
2,4,6-Trichlorophenol	10.0	nd		nd			
2,4,5-Trichlorophenol	10.0	nd		nd			
2-Chloronaphthalene	2.0	nd		nd			
2-Nitroaniline	10.0	nd		nd			
1,4-Dinitrobenzene	10.0	nd		nd			
Dimethylphthalate	2.0	nd		nd			
Acenaphthylene	0.2	nd		nd			
1,3-Dinitrobenzene	10.0	nd		nd			
2,6-Dinitrotoluene	2.0	nd		nd			
1,2-Dinitrobenzene	2.0	nd		nd			
Acenaphthene	0.2	nd	108%	nd	93%	97%	4%
3-Nitroaniline	10.0	nd		nd			
Dibenzofuran	2.0	nd		nd			
2,4-Dinitrotoluene	2.0	nd		nd			
2,3,4,6-Tetrachlorophenol	2.0	nd		nd			
2,3,5,6-Tetrachlorophenol	2.0	nd		nd			
2,4-Dinitrophenol	10.0	nd		nd			
Fluorene	0.2	nd		nd			
4-Chlorophenylphenylether	2.0	nd		nd			
Diethylphthalate	2.0	nd		nd			
4-Nitroaniline	10.0	nd		nd			
4,6-Dinitro-2-methylphenol	10.0	nd		nd			
N-nitrosodiphenylamine	2.0	nd		nd			
Azobenzene	2.0	nd		nd			
4-Bromophenylphenylether	2.0	nd		nd			
Hexachlorobenzene	2.0	nd		nd			
Pentachlorophenol	10.0	nd		nd	52%	57%	9%
Phenanthrene	0.2	nd		nd			
Anthracene	0.2	nd		nd			
Carbazole	2.0	nd		nd			
Di-n-butylphthalate	2.0	nd		nd			
Fluoranthene	0.2	nd	101%	nd			
Pyrene	0.2	nd		nd	83%	85%	2%
Butylbenzylphthalate	2.0	nd		nd			
Bis(2-ethylhexyl) adipate	2.0	nd		nd			
Benzo(a)anthracene	0.2	nd		nd			
Chrysene	0.2	nd		nd			
Bis (2-ethylhexyl) phthalate	2.0	nd		nd			
Di-n-octyl phthalate	2.0	nd	104%	nd			
Benzo(b)fluoranthene	0.2	nd		nd			
Benzo(k)fluoranthene	0.2	nd		nd			
Benzo(a)pyrene	0.2	nd	84%	nd			
Dibenzo(a,h)anthracene	0.2	nd		nd			
Benzo(ghi)perylene	0.2	nd		nd			
Indeno(1,2,3-cd)pyrene	0.2	nd		nd			

ESN NW BELLEVUE CHEMISTRY LABORATORY
Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71009.3
Client: Washington Department of Fish and Wildlife
Client Job Name: Cow Lake
Client Job Number:

Analytical Results

8270, µg/L	MTH BLK	LCS	Cow Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water
Date extracted	Reporting	10/09/07	10/09/07	10/09/07	10/09/07	10/09/07
Date analyzed	Limits	10/10/07	10/10/07	10/11/07	10/10/07	10/10/07

Surrogate recoveries

2-Fluorophenol	112%			72%	76%
Phenol-d6	120%			92%	97%
Nitrobenzene-d5	99%	77%	41%	117%	111%
2-Fluorobiphenyl	98%	55%	120%	85%	87%
2,4,6-Tribromophenol	81%			89%	87%
4-Terphenyl-d14	85%	53%	107%	79%	80%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

Acceptable Recovery limits:

2-Fluorophenol: 10-135 %
Phenol - d5: 10-135 %
2,4,6- tribromophenol: 29-159%
Nitrobenzene - d5: 20-120 %
2-Fluorobiphenyl: 50-150%
p-Terphenyl-d14: 50-150%
Acceptable RPD limit: 35%

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9804

ESN Job Number: S71106.3
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Cow Lake
 Client Job Number:

Analytical Results

8260, µg/L	MTH BLK	LCS	Cow Lake	MS	MSD	RPD	
Matrix	Water	Water	Water	Water	Water		
Sample Collected	Reporting			11/02/07			
Date analyzed	Limits	11/08/07	11/08/07	11/08/07	11/08/07		
Dichlorodifluoromethane	1.0	nd		nd			
Chloromethane	1.0	nd		nd			
Vinyl chloride	0.2	nd		nd			
Bromomethane	1.0	nd		nd			
Chloroethane	1.0	nd		nd			
Trichlorofluoromethane	1.0	nd		nd			
Acetone	10.0	nd		nd			
1,1-Dichloroethene	1.0	nd	94%	nd	98%	91%	7%
Methylene chloride	10.0	nd		nd			
Methyl-t-butyl ether (MTBE)	1.0	nd		nd			
trans-1,2-Dichloroethene	1.0	nd		nd			
1,1-Dichloroethane	1.0	nd		nd			
n-Hexane	1.0	nd		nd			
2-Butanone (MEK)	10.0	nd		nd			
cis-1,2-Dichloroethene	1.0	nd		nd			
2,2-Dichloropropane	1.0	nd		nd			
Chloroform	1.0	nd		nd			
Bromochloromethane	1.0	nd		nd			
1,1,1-Trichloroethane	1.0	nd		nd			
1,2-Dichloroethane (EDC)	1.0	nd		nd			
1,1-Dichloropropene	1.0	nd		nd			
Carbon tetrachloride	1.0	nd		nd			
Benzene	1.0	nd	102%	nd	106%	100%	6%
Trichloroethene (TCE)	1.0	nd	104%	nd	107%	101%	6%
1,2-Dichloropropane	1.0	nd		nd			
Dibromomethane	1.0	nd		nd			
Bromodichloromethane	1.0	nd		nd			
4-Methyl-2-pentanone (MIBK)	1.0	nd		nd			
cis-1,3-Dichloropropene	1.0	nd		nd			
Toluene	1.0	nd	108%	nd	116%	109%	6%
trans-1,3-Dichloropropene	1.0	nd		nd			
1,1,2-Trichloroethane	1.0	nd		nd			
2-Hexanone	1.0	nd		nd			
1,3-Dichloropropane	1.0	nd		nd			
Dibromochloromethane	1.0	nd		nd			
Tetrachloroethene (PCE)	1.0	nd		nd			
1,2-Dibromoethane (EDB)	0.10	nd		nd			
Chlorobenzene	1.0	nd	117%	nd	125%	118%	6%
1,1,1,2-Tetrachloroethane	1.0	nd		nd			
Ethylbenzene	1.0	nd		nd			
Xylenes	1.0	nd		nd			
Styrene	1.0	nd		nd			
Bromoform	1.0	nd		nd			
1,1,2,2-Tetrachloroethane	1.0	nd		nd			
Isopropylbenzene	1.0	nd		nd			
1,2,3-Trichloropropane	1.0	nd		nd			
Bromobenzene	1.0	nd		nd			
n-Propylbenzene	1.0	nd		nd			
2-Chlorotoluene	1.0	nd		nd			
4-Chlorotoluene	1.0	nd		nd			
1,3,5-Trimethylbenzene	1.0	nd		nd			
tert-Butylbenzene	1.0	nd		nd			
1,2,4-Trimethylbenzene	1.0	nd		nd			
sec-Butylbenzene	1.0	nd		nd			
1,3-Dichlorobenzene	1.0	nd		nd			
1,4-Dichlorobenzene	1.0	nd		nd			
Isopropyltoluene	1.0	nd		nd			
1,2-Dichlorobenzene	1.0	nd		nd			
n-Butylbenzene	1.0	nd		nd			
1,2-Dibromo-3-Chloropropane	1.0	nd		nd			
1,2,4-Trichlorobenzene	1.0	nd		nd			
Naphthalene	1.0	nd		nd			
Hexachloro-1,3-butadiene	1.0	nd		nd			
1,2,3-Trichlorobenzene	1.0	nd		nd			

*-instrument detection limits

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

ESN Job Number: S71106.3
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Cow Lake
 Client Job Number:

Analytical Results

8260, µg/L	MTH BLK	LCS	Cow Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water
Sample Collected	Reporting			11/02/07		
Date analyzed	Limits	11/08/07	11/08/07	11/08/07	11/08/07	11/08/07

Surrogate recoveries:

Dibromofluoromethane	134%	126%	131%	128%	129%
Toluene-d8	105%	105%	112%	108%	106%
4-Bromofluorobenzene	101%	103%	101%	100%	100%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
 J - estimated quantitation, below listed reporting limits
 Acceptable Recovery limits: 65% TO 135%
 Acceptable RPD limit: 35%

ESN NW BELLEVUE CHEMISTRY LABORATORY
Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71106.3
Client: Washington Department of Fish and Wildlife
Client Job Name: Cow Lake
Client Job Number:

Analytical Results

8270, µg/L	MTH BLK	LCS	Cow Lake	MS	MSD	RPD	
Matrix	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07	
Date analyzed	Limits	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07	
Sample collected			11/02/07				
Pyridine	2.0	nd		nd			
Aniline	2.0	nd		nd			
Phenol	2.0	nd		nd	75%	78%	4%
2-Chlorophenol	2.0	nd		nd	97%	100%	3%
Bis (2-chloroethyl) ether	2.0	nd		nd			
1,3-Dichlorobenzene	2.0	nd		nd			
1,4-Dichlorobenzene	2.0	nd	101%	nd	105%	107%	2%
1,2-Dichlorobenzene	2.0	nd		nd			
N-methylpyrrolidone	2.0	nd		nd			
Benzyl alcohol	2.0	nd		nd			
2-Methylphenol (o-cresol)	2.0	nd		nd			
Bis (2-chloroisopropyl) ether	10.0	nd		nd			
3,4-Methylphenol (m,p-cresol)	2.0	nd		nd			
Hexachloroethane	2.0	nd		nd			
N-Nitroso-di-n-propylamine	2.0	nd		nd	92%	95%	3%
Nitrobenzene	2.0	nd		nd			
Isophorone	2.0	nd		nd			
2-Nitrophenol	10.0	nd		nd			
4-Nitrophenol	10.0	nd		nd	37%	41%	10%
2,4-Dimethylphenol	2.0	nd		nd			
Bis (2-chloroethoxy) methane	2.0	nd		nd			
2,4-Dichlorophenol	10.0	nd		nd			
1,2,4-Trichlorobenzene	2.0	nd		nd	82%	86%	5%
Naphthalene	2.0	nd		nd			
4-Chloroaniline	10.0	nd		nd			
Hexachlorobutadiene	2.0	nd	116%	nd			
4-Chloro-3-methylphenol	10.0	nd		nd	100%	103%	3%
2-Methylnaphthalene	2.0	nd		nd			
1-Methylnaphthalene	2.0	nd		nd			
Hexachlorocyclopentadiene	2.0	nd		nd			
2,4,6-Trichlorophenol	10.0	nd		nd			
2,4,5-Trichlorophenol	10.0	nd		nd			
2-Chloronaphthalene	2.0	nd		nd			
2-Nitroaniline	10.0	nd		nd			
1,4-Dinitrobenzene	10.0	nd		nd			
Dimethylphthalate	2.0	nd		nd			
Acenaphthylene	0.2	nd		nd			
1,3-Dinitrobenzene	10.0	nd		nd			
2,6-Dinitrotoluene	2.0	nd		nd			
1,2-Dinitrobenzene	2.0	nd		nd			
Acenaphthene	0.2	nd	99%	nd	100%	96%	4%
3-Nitroaniline	10.0	nd		nd			
Dibenzofuran	2.0	nd		nd			
2,4-Dinitrotoluene	2.0	nd		nd			
2,3,4,6-Tetrachlorophenol	2.0	nd		nd			
2,3,5,6-Tetrachlorophenol	2.0	nd		nd			
2,4-Dinitrophenol	10.0	nd		nd			
Fluorene	0.2	nd		nd			
4-Chlorophenylphenylether	2.0	nd		nd			
Diethylphthalate	2.0	nd		nd			
4-Nitroaniline	10.0	nd		nd			
4,6-Dinitro-2-methylphenol	10.0	nd		nd			
N-nitrosodiphenylamine	2.0	nd		nd			
Azobenzene	2.0	nd		nd			
4-Bromophenylphenylether	2.0	nd		nd			
Hexachlorobenzene	2.0	nd		nd			
Pentachlorophenol	10.0	nd		nd	63%	68%	2%
Phenanthrene	0.2	nd		nd			
Anthracene	0.2	nd		nd			
Carbazole	2.0	nd		nd			
Di-n-butylphthalate	2.0	nd		nd			
Fluoranthene	0.2	nd	107%	nd			
Pyrene	0.2	nd		nd	83%	86%	4%
Butylbenzylphthalate	2.0	nd		nd			
Bis(2-ethylhexyl) adipate	2.0	nd		nd			
Benzo(a)anthracene	0.2	nd		nd			
Chrysene	0.2	nd		nd			
Bis (2-ethylhexyl) phthalate	2.0	nd		nd			
Di-n-octyl phthalate	2.0	nd		nd			
Benzo(b)fluoranthene	0.2	nd		nd			
Benzo(k)fluoranthene	0.2	nd		nd			
Benzo(a)pyrene	0.2	nd	62%	nd			
Dibenzo(a,h)anthracene	0.2	nd		nd			
Benzo(ghi)perylene	0.2	nd		nd			
Indeno(1,2,3-cd)pyrene	0.2	nd		nd			

ESN NW BELLEVUE CHEMISTRY LABORATORY
 Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71106.3
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Cow Lake
 Client Job Number:

Analytical Results

8270, µg/L	MTH BLK	LCS	Cow Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water
Date extracted	Reporting	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07
Date analyzed	Limits	11/07/07	11/07/07	11/07/07	11/07/07	11/07/07
Sample collected			11/02/07			

Surrogate recoveries

2-Fluorophenol	73%			93%	98%
Phenol-d6	82%			97%	103%
Nitrobenzene-d5	65%	49%	51%	71%	73%
2-Fluorobiphenyl	92%	75%	114%	127%	129%
2,4,6-Tribromophenol	66%			106%	116%
4-Terphenyl-d14	80%	65%	105%	113%	112%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

Acceptable Recovery limits:

- 2-Fluorophenol: 10-135 %
- Phenol - d5: 10-135 %
- 2,4,6- tribromophenol: 29-159%
- Nitrobenzene - d5: 20-120 %
- 2-Fluorobiphenyl: 50-150%
- p-Terphenyl-d14: 50-150%
- Acceptable RPD limit: 35%

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

ESN Job Number: S71009.5
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Finnel Lake
 Client Job Number:

Analytical Results

8260, µg/L Matrix	MTH BLK	LCS Finnel Lake		MS	MSD	RPD	
	Water	Water	Water	Water	Water		
	Reporting						
Date analyzed	Limits	10/14/07	10/14/07	10/14/07	10/14/07	10/14/07	
Dichlorodifluoromethane	1.0	nd		nd			
Chloromethane	1.0	nd		nd			
Vinyl chloride	0.2	nd		nd			
Bromomethane	1.0	nd		nd			
Chloroethane	1.0	nd		nd			
Trichlorofluoromethane	1.0	nd		nd			
Acetone	10.0	nd		nd			
1,1-Dichloroethene	1.0	nd	100%	nd	94%	93%	1%
Methylene chloride	10.0	nd		nd			
Methyl-t-butyl ether (MTBE)	1.0	nd		nd			
trans-1,2-Dichloroethene	1.0	nd		nd			
1,1-Dichloroethane	1.0	nd		nd			
n-Hexane	1.0	nd		nd			
2-Butanone (MEK)	10.0	nd		nd			
cis-1,2-Dichloroethene	1.0	nd		nd			
2,2-Dichloropropane	1.0	nd		nd			
Chloroform	1.0	nd		nd			
Bromochloromethane	1.0	nd		nd			
1,1,1-Trichloroethane	1.0	nd		nd			
1,2-Dichloroethane (EDC)	1.0	nd		nd			
1,1-Dichloropropene	1.0	nd		nd			
Carbon tetrachloride	1.0	nd		nd			
Benzene	1.0	nd	104%	nd	98%	100%	2%
Trichloroethene (TCE)	1.0	nd	104%	nd	99%	101%	2%
1,2-Dichloropropane	1.0	nd		nd			
Dibromomethane	1.0	nd		nd			
Bromodichloromethane	1.0	nd		nd			
4-Methyl-2-pentanone (MIBK)	1.0	nd		nd			
cis-1,3-Dichloropropene	1.0	nd		nd			
Toluene	1.0	nd	105%	nd	101%	102%	1%
trans-1,3-Dichloropropene	1.0	nd		nd			
1,1,2-Trichloroethane	1.0	nd		nd			
2-Hexanone	1.0	nd		nd			
1,3-Dichloropropane	1.0	nd		nd			
Dibromochloromethane	1.0	nd		nd			
Tetrachloroethene (PCE)	1.0	nd		nd			
1,2-Dibromoethane (EDB)	0.10	nd		nd			
Chlorobenzene	1.0	nd	108%	nd	104%	105%	1%
1,1,1,2-Tetrachloroethane	1.0	nd		nd			
Ethylbenzene	1.0	nd		nd			
Xylenes	1.0	nd		nd			
Styrene	1.0	nd		nd			
Bromoform	1.0	nd		nd			
1,1,2,2-Tetrachloroethane	1.0	nd		nd			
Isopropylbenzene	1.0	nd		nd			
1,2,3-Trichloropropane	1.0	nd		nd			
Bromobenzene	1.0	nd		nd			
n-Propylbenzene	1.0	nd		nd			
2-Chlorotoluene	1.0	nd		nd			
4-Chlorotoluene	1.0	nd		nd			
1,3,5-Trimethylbenzene	1.0	nd		nd			
tert-Butylbenzene	1.0	nd		nd			
1,2,4-Trimethylbenzene	1.0	nd		nd			
sec-Butylbenzene	1.0	nd		nd			
1,3-Dichlorobenzene	1.0	nd		nd			
1,4-Dichlorobenzene	1.0	nd		nd			
Isopropyltoluene	1.0	nd		nd			
1,2-Dichlorobenzene	1.0	nd		nd			
n-Butylbenzene	1.0	nd		1.4			
1,2-Dibromo-3-Chloropropane	1.0	nd		nd			
1,2,4-Trichlorobenzene	1.0	nd		nd			
Naphthalene	1.0	nd		55			
Hexachloro-1,3-butadiene	1.0	nd		nd			
1,2,3-Trichlorobenzene	1.0	nd		nd			

*-Instrument detection limits

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

ESN Job Number: S71009.5
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Finnel Lake
 Client Job Number:

Analytical Results

8260, µg/L	MTH BLK	LCS	Finnel Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water
	Reporting					
Date analyzed	Limits	10/14/07	10/14/07	10/14/07	10/14/07	10/14/07

Surrogate recoveries:

Dibromofluoromethane	116%	112%	113%	110%	111%
Toluene-d8	98%	97%	97%	97%	97%
4-Bromofluorobenzene	98%	97%	94%	95%	94%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
 J - estimated quantitation, below listed reporting limits
 Acceptable Recovery limits: 65% TO 135%
 Acceptable RPD limit: 35%

ESN NW BELLEVUE CHEMISTRY LABORATORY
Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71009.5
Client: Washington Department of Fish and Wildlife
Client Job Name: Finnel Lake
Client Job Number:

Analytical Results

8270, µg/L	MTH BLK	LCS	Finnel Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water
Date extracted	Reporting	10/09/07	10/09/07	10/09/07	10/09/07	10/09/07
Date analyzed	Limits	10/10/07	10/10/07	10/11/07	10/10/07	10/10/07
Pyridine	2.0	nd	nd			
Aniline	2.0	nd	nd			
Phenol	2.0	nd	nd	100%	106%	6%
2-Chlorophenol	2.0	nd	nd	113%	119%	5%
Bis (2-chloroethyl) ether	2.0	nd	nd			
1,3-Dichlorobenzene	2.0	nd	nd			
1,4-Dichlorobenzene	2.0	nd	49%	43%	44%	2%
1,2-Dichlorobenzene	2.0	nd	nd			
N-methylpyrrolidone	2.0	nd	nd			
Benzyl alcohol	2.0	nd	nd			
2-Methylphenol (o-cresol)	2.0	nd	nd			
Bis (2-chloroisopropyl) ether	10.0	nd	nd			
3,4-Methylphenol (m,p-cresol)	2.0	nd	nd			
Hexachloroethane	2.0	nd	nd			
N-Nitroso-di-n-propylamine	2.0	nd	nd	104%	105%	1%
Nitrobenzene	2.0	nd	nd			
Isophorone	2.0	nd	nd			
2-Nitrophenol	10.0	nd	nd			
4-Nitrophenol	10.0	nd	nd	53%	56%	6%
2,4-Dimethylphenol	2.0	nd	nd			
Bis (2-chloroethoxy) methane	2.0	nd	nd			
2,4-Dichlorophenol	10.0	nd	nd			
1,2,4-Trichlorobenzene	2.0	nd	nd	69%	70%	1%
Naphthalene	2.0	nd	10			
4-Chloroaniline	10.0	nd	nd			
Hexachlorobutadiene	2.0	nd	112%			
4-Chloro-3-methylphenol	10.0	nd	nd	62%	62%	0%
2-Methylnaphthalene	2.0	nd	28			
1-Methylnaphthalene	2.0	nd	14			
Hexachlorocyclopentadiene	2.0	nd	nd			
2,4,6-Trichlorophenol	10.0	nd	nd			
2,4,5-Trichlorophenol	10.0	nd	nd			
2-Chloronaphthalene	2.0	nd	nd			
2-Nitroaniline	10.0	nd	nd			
1,4-Dinitrobenzene	10.0	nd	nd			
Dimethylphthalate	2.0	nd	nd			
Acenaphthylene	0.2	nd	nd			
1,3-Dinitrobenzene	10.0	nd	nd			
2,6-Dinitrotoluene	2.0	nd	nd			
1,2-Dinitrobenzene	2.0	nd	nd			
Acenaphthene	0.2	nd	108%	93%	97%	4%
3-Nitroaniline	10.0	nd	nd			
Dibenzofuran	2.0	nd	nd			
2,4-Dinitrotoluene	2.0	nd	nd			
2,3,4,6-Tetrachlorophenol	2.0	nd	nd			
2,3,5,6-Tetrachlorophenol	2.0	nd	nd			
2,4-Dinitrophenol	10.0	nd	nd			
Fluorene	0.2	nd	nd			
4-Chlorophenylphenylether	2.0	nd	nd			
Diethylphthalate	2.0	nd	nd			
4-Nitroaniline	10.0	nd	nd			
4,6-Dinitro-2-methylphenol	10.0	nd	nd			
N-nitrosodiphenylamine	2.0	nd	nd			
Azobenzene	2.0	nd	nd			
4-Bromophenylphenylether	2.0	nd	nd			
Hexachlorobenzene	2.0	nd	nd			
Pentachlorophenol	10.0	nd	nd	52%	57%	9%
Phenanthrene	0.2	nd	nd			
Anthracene	0.2	nd	nd			
Carbazole	2.0	nd	nd			
Di-n-butylphthalate	2.0	nd	nd			
Fluoranthene	0.2	nd	101%			
Pyrene	0.2	nd	nd	83%	85%	2%
Butylbenzylphthalate	2.0	nd	nd			
Bis(2-ethylhexyl) adipate	2.0	nd	nd			
Benzo(a)anthracene	0.2	nd	nd			
Chrysene	0.2	nd	nd			
Bis (2-ethylhexyl) phthalate	2.0	nd	nd			
Di-n-octyl phthalate	2.0	nd	104%			
Benzo(b)fluoranthene	0.2	nd	nd			
Benzo(k)fluoranthene	0.2	nd	nd			
Benzo(a)pyrene	0.2	nd	84%			
Dibenzo(a,h)anthracene	0.2	nd	nd			
Benzo(ghi)perylene	0.2	nd	nd			
Indeno(1,2,3-cd)pyrene	0.2	nd	nd			

ESN NW BELLEVUE CHEMISTRY LABORATORY
 Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71009.5
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Fimmel Lake
 Client Job Number:

Analytical Results

8270, µg/L		MTH BLK	LCS	Fimmel Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	10/09/07	10/09/07	10/09/07	10/09/07	10/09/07	10/09/07
Date analyzed	Limits	10/10/07	10/10/07	10/11/07	10/10/07	10/10/07	

Surrogate recoveries

2-Fluorophenol		112%			72%	76%	
Phenol-d6		120%			92%	97%	
Nitrobenzene-d5		99%	77%	48%	117%	111%	
2-Fluorobiphenyl		98%	55%	128%	85%	87%	
2,4,6-Tribromophenol		81%			89%	87%	
4-Terphenyl-d14		85%	53%	114%	79%	80%	

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

Acceptable Recovery limits:

- 2-Fluorophenol: 10-135 %
- Phenol - d5: 10-135 %
- 2,4,6-tribromophenol: 29-159%
- Nitrobenzene - d5: 20-120 %
- 2-Fluorobiphenyl: 50-150%
- p-Terphenyl-d14: 50-150%
- Acceptable RPD limit: 35%

ESN SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

ESN Job Number: S71016.3
Client: Washington Department of Fish and Wildlife
Client Job Name: Finnel Lake
Client Job Number:

Analytical Results

8260, µg/L	MTH BLK		LCS Finnel Lake		MS	MSD	RPD
	Water	Water	Water	Water	Water	Water	
Matrix	Reporting						
Date analyzed	Limits	10/18/07	10/18/07	10/18/07	10/18/07	10/18/07	
Dichlorodifluoromethane	1.0	nd		nd			
Chloromethane	1.0	nd		nd			
Vinyl chloride	0.2	nd		nd			
Bromomethane	1.0	nd		nd			
Chloroethane	1.0	nd		nd			
Trichlorofluoromethane	1.0	nd		nd			
Acetone	10.0	nd		nd			
1,1-Dichloroethene	1.0	nd	92%	nd	104%	100%	4%
Methylene chloride	10.0	nd		nd			
Methyl-t-butyl ether (MTBE)	1.0	nd		nd			
trans-1,2-Dichloroethene	1.0	nd		nd			
1,1-Dichloroethane	1.0	nd		nd			
n-Hexane	1.0	nd		nd			
2-Butanone (MEK)	10.0	nd		nd			
cis-1,2-Dichloroethene	1.0	nd		nd			
2,2-Dichloropropane	1.0	nd		nd			
Chloroform	1.0	nd		nd			
Bromochloromethane	1.0	nd		nd			
1,1,1-Trichloroethane	1.0	nd		nd			
1,2-Dichloroethane (EDC)	1.0	nd		nd			
1,1-Dichloropropene	1.0	nd		nd			
Carbon tetrachloride	1.0	nd		nd			
Benzene	1.0	nd	98%	nd	101%	100%	1%
Trichloroethene (TCE)	1.0	nd	98%	nd	102%	100%	2%
1,2-Dichloropropane	1.0	nd		nd			
Dibromomethane	1.0	nd		nd			
Bromodichloromethane	1.0	nd		nd			
4-Methyl-2-pentanone (MIBK)	1.0	nd		nd			
cis-1,3-Dichloropropene	1.0	nd		nd			
Toluene	1.0	nd	104%	nd	108%	108%	0%
trans-1,3-Dichloropropene	1.0	nd		nd			
1,1,2-Trichloroethane	1.0	nd		nd			
2-Hexanone	1.0	nd		nd			
1,3-Dichloropropane	1.0	nd		nd			
Dibromochloromethane	1.0	nd		nd			
Tetrachloroethene (PCE)	1.0	nd		nd			
1,2-Dibromoethane (EDB)	0.10	nd		nd			
Chlorobenzene	1.0	nd	110%	nd	114%	114%	0%
1,1,1,2-Tetrachloroethane	1.0	nd		nd			
Ethylbenzene	1.0	nd		nd			
Xylenes	1.0	nd		nd			
Styrene	1.0	nd		nd			
Bromoform	1.0	nd		nd			
1,1,2,2-Tetrachloroethane	1.0	nd		nd			
Isopropylbenzene	1.0	nd		nd			
1,2,3-Trichloropropane	1.0	nd		nd			
Bromobenzene	1.0	nd		nd			
n-Propylbenzene	1.0	nd		nd			
2-Chlorotoluene	1.0	nd		nd			
4-Chlorotoluene	1.0	nd		nd			
1,3,5-Trimethylbenzene	1.0	nd		nd			
tert-Butylbenzene	1.0	nd		nd			
1,2,4-Trimethylbenzene	1.0	nd		nd			
sec-Butylbenzene	1.0	nd		nd			
1,3-Dichlorobenzene	1.0	nd		nd			
1,4-Dichlorobenzene	1.0	nd		nd			
Isopropyltoluene	1.0	nd		nd			
1,2-Dichlorobenzene	1.0	nd		nd			
n-Butylbenzene	1.0	nd		1.9			
1,2-Dibromo-3-Chloropropane	1.0	nd		nd			
1,2,4-Trichlorobenzene	1.0	nd		nd			
Naphthalene	1.0	nd		21			
Hexachloro-1,3-butadiene	1.0	nd		nd			
1,2,3-Trichlorobenzene	1.0	nd		nd			

*-instrument detection limits

ESN SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

ESN Job Number: S71016.3
Client: Washington Department of Fish and Wildlife
Client Job Name: Finnel Lake
Client Job Number:

Analytical Results

8260, µg/L	MTH BLK	LCS	Finnel Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	
	Reporting					
Date analyzed	Limits	10/18/07	10/18/07	10/18/07	10/18/07	10/18/07

Surrogate recoveries:

Dibromofluoromethane	119%	116%	127%	119%	118%	
Toluene-d8	96%	96%	96%	94%	94%	
4-Bromofluorobenzene	94%	94%	93%	93%	92%	

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
J - estimated quantitation, below listed reporting limits
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

ESN NW BELLEVUE CHEMISTRY LABORATORY
 Tel(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71016.3
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Finnel Lake
 Client Job Number:

Analytical Results

8270, µg/L	MTH BLK	LCS	Finnel Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water
Date extracted	Reporting	10/22/07	10/22/07	10/18/07	10/22/07	10/22/07
Date analyzed	Limits	10/22/07	10/22/07	10/22/07	10/22/07	10/22/07
Pyridine	2.0	nd		nd		
Aniline	2.0	nd		nd		
Phenol	2.0	nd		nd	46%	2%
2-Chlorophenol	2.0	nd		nd	61%	8%
Bis (2-chloroethyl) ether	2.0	nd		nd		
1,3-Dichlorobenzene	2.0	nd		nd		
1,4-Dichlorobenzene	2.0	nd	119%	nd	103%	1%
1,2-Dichlorobenzene	2.0	nd		nd		
N-methylpyrrolidone	2.0	nd		nd		
Benzyl alcohol	2.0	nd		nd		
2-Methylphenol (o-cresol)	2.0	nd		nd		
Bis (2-chloroisopropyl) ether	10.0	nd		nd		
3,4-Methylphenol (m,p-cresol)	2.0	nd		nd		
Hexachloroethane	2.0	nd		nd		
N-Nitroso-di-n-propylamine	2.0	nd		nd	94%	2%
Nitrobenzene	2.0	nd		nd		
Isophorone	2.0	nd		nd		
2-Nitrophenol	10.0	nd		nd		
4-Nitrophenol	10.0	nd		nd	41%	14%
2,4-Dimethylphenol	2.0	nd		nd		
Bis (2-chloromethoxy) methane	2.0	nd		nd		
2,4-Dichlorophenol	10.0	nd		nd		
1,2,4-Trichlorobenzene	2.0	nd		nd	115%	1%
Naphthalene	2.0	nd		6.8		
4-Chloroaniline	10.0	nd		nd		
Hexachlorobutadiene	2.0	nd	114%	nd		
4-Chloro-3-methylphenol	10.0	nd		nd	74%	4%
2-Methylnaphthalene	2.0	nd		10		
1-Methylnaphthalene	2.0	nd		5.9		
Hexachlorocyclopentadiene	2.0	nd		nd		
2,4,6-Trichlorophenol	10.0	nd		nd		
2,4,5-Trichlorophenol	10.0	nd		nd		
2-Chloronaphthalene	2.0	nd		nd		
2-Nitroaniline	10.0	nd		nd		
1,4-Dinitrobenzene	10.0	nd		nd		
Dimethylphthalate	2.0	nd		nd		
Acenaphthylene	0.2	nd		nd		
1,3-Dinitrobenzene	10.0	nd		nd		
2,6-Dinitrotoluene	2.0	nd		nd		
1,2-Dinitrobenzene	2.0	nd		nd		
Acenaphthene	0.2	nd	96%	nd	90%	4%
3-Nitroaniline	10.0	nd		nd		
Dibenzofuran	2.0	nd		nd		
2,4-Dinitrotoluene	2.0	nd		nd		
2,3,4,6-Tetrachlorophenol	2.0	nd		nd		
2,3,5,6-Tetrachlorophenol	2.0	nd		nd		
2,4-Dinitrophenol	10.0	nd		nd		
Fluorene	0.2	nd		nd		
4-Chlorophenylphenylether	2.0	nd		nd		
Diethylphthalate	2.0	nd		nd		
4-Nitroaniline	10.0	nd		nd		
4,6-Dinitro-2-methylphenol	10.0	nd		nd		
N-nitrosodiphenylamine	2.0	nd		nd		
Azobenzene	2.0	nd		nd		
4-Bromophenylphenylether	2.0	nd		nd		
Hexachlorobenzene	2.0	nd		nd		
Pentachlorophenol	10.0	nd		nd	78%	5%
Phenanthrene	0.2	nd		nd		
Anthracene	0.2	nd		nd		
Carbazole	2.0	nd		nd		
Di-n-butylphthalate	2.0	nd		nd		
Fluoranthene	0.2	nd	119%	nd		
Pyrene	0.2	nd		nd	94%	6%
Butylbenzylphthalate	2.0	nd		nd		
Bis(2-ethylhexyl) adipate	2.0	nd		nd		
Benzo(a)anthracene	0.2	nd		nd		
Chrysene	0.2	nd		nd		
Bis (2-ethylhexyl) phthalate	2.0	nd		nd		
Di-n-octyl phthalate	2.0	nd		nd		
Benzo(b)fluoranthene	0.2	nd		nd		
Benzo(k)fluoranthene	0.2	nd		nd		
Benzo(a)pyrene	0.2	nd	55%	nd		
Dibenzo(a,h)anthracene	0.2	nd		nd		
Benzo(ghi)perylene	0.2	nd		nd		
Indeno(1,2,3-cd)pyrene	0.2	nd		nd		

ESN NW BELLEVUE CHEMISTRY LABORATORY
 Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71016.3
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Finnel Lake
 Client Job Number:

Analytical Results

8270, µg/L		MTH BLK	LCS	Finnel Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	10/22/07	10/22/07	10/18/07	10/22/07	10/22/07	
Date analyzed	Limits	10/22/07	10/22/07	10/22/07	10/22/07	10/22/07	

Surrogate recoveries

2-Fluorophenol	84%				57%	60%
Phenol-d6	86%				61%	64%
Nitrobenzene-d5	92%	50%	55%		69%	70%
2-Fluorobiphenyl	116%	64%	114%		118%	120%
2,4,6-Tribromophenol	115%				113%	124%
4-Terphenyl-d14	102%	80%	108%		103%	127%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

Acceptable Recovery limits:

2-Fluorophenol: 10-135 %
 Phenol - d5: 10-135 %
 2,4,6- tribromophenol: 29-159%
 Nitrobenzene - d5: 20-120 %
 2-Fluorobiphenyl: 50-150%
 p-Terphenyl-d14: 50-150%
 Acceptable RPD limit: 35%

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

ESN Job Number: S71112.1
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Finnell Lake
 Client Job Number:

Analytical Results

8260, µg/L	MTH BLK	LCS	Finnell Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water
Sample Collected	Reporting					
Date analyzed	Limits	11/13/07	11/13/07	11/13/07	11/13/07	11/13/07
Dichlorodifluoromethane	1.0	nd	nd			
Chloromethane	1.0	nd	nd			
Vinyl chloride	0.2	nd	nd			
Bromomethane	1.0	nd	nd			
Chloroethane	1.0	nd	nd			
Trichlorofluoromethane	1.0	nd	nd			
Acetone	10.0	nd	nd			
1,1-Dichloroethene	1.0	nd	90%	96%	94%	2%
Methylene chloride	10.0	nd	nd			
Methyl-t-butyl ether (MTBE)	1.0	nd	nd			
trans-1,2-Dichloroethene	1.0	nd	nd			
1,1-Dichloroethane	1.0	nd	nd			
n-Hexane	1.0	nd	nd			
2-Butanone (MEK)	10.0	nd	nd			
cis-1,2-Dichloroethene	1.0	nd	nd			
2,2-Dichloropropane	1.0	nd	nd			
Chloroform	1.0	nd	nd			
Bromochloromethane	1.0	nd	nd			
1,1,1-Trichloroethane	1.0	nd	nd			
1,2-Dichloroethane (EDC)	1.0	nd	nd			
1,1-Dichloropropene	1.0	nd	nd			
Carbon tetrachloride	1.0	nd	nd			
Benzene	1.0	nd	102%	106%	101%	5%
Trichloroethene (TCE)	1.0	nd	104%	106%	104%	2%
1,2-Dichloropropane	1.0	nd	nd			
Dibromomethane	1.0	nd	nd			
Bromodichloromethane	1.0	nd	nd			
4-Methyl-2-pentanone (MIBK)	1.0	nd	nd			
cis-1,3-Dichloropropene	1.0	nd	nd			
Toluene	1.0	nd	105%	112%	110%	2%
trans-1,3-Dichloropropene	1.0	nd	nd			
1,1,2-Trichloroethane	1.0	nd	nd			
2-Hexanone	1.0	nd	nd			
1,3-Dichloropropane	1.0	nd	nd			
Dibromochloromethane	1.0	nd	nd			
Tetrachloroethene (PCE)	1.0	nd	nd			
1,2-Dibromoethane (EDB)	0.10	nd	nd			
Chlorobenzene	1.0	nd	114%	120%	118%	1%
1,1,1,2-Tetrachloroethane	1.0	nd	nd			
Ethylbenzene	1.0	nd	nd			
Xylenes	1.0	nd	nd			
Styrene	1.0	nd	nd			
Bromoform	1.0	nd	nd			
1,1,1,2-Tetrachloroethane	1.0	nd	nd			
Isopropylbenzene	1.0	nd	nd			
1,2,3-Trichloropropane	1.0	nd	nd			
Bromobenzene	1.0	nd	nd			
n-Propylbenzene	1.0	nd	nd			
2-Chlorotoluene	1.0	nd	nd			
4-Chlorotoluene	1.0	nd	nd			
1,3,5-Trimethylbenzene	1.0	nd	nd			
tert-Butylbenzene	1.0	nd	nd			
1,2,4-Trimethylbenzene	1.0	nd	nd			
sec-Butylbenzene	1.0	nd	nd			
1,3-Dichlorobenzene	1.0	nd	nd			
1,4-Dichlorobenzene	1.0	nd	nd			
Isopropyltoluene	1.0	nd	nd			
1,2-Dichlorobenzene	1.0	nd	nd			
n-Butylbenzene	1.0	nd	nd			
1,2-Dibromo-3-Chloropropane	1.0	nd	nd			
1,2,4-Trichlorobenzene	1.0	nd	nd			
Naphthalene	1.0	nd	nd			
Hexachloro-1,3-butadiene	1.0	nd	nd			
1,2,3-Trichlorobenzene	1.0	nd	nd			

*-instrument detection limits

ESN SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

ESN Job Number: S71112.1
Client: Washington Department of Fish and Wildlife
Client Job Name: Finnell Lake
Client Job Number:

Analytical Results

8260, µg/L	MTH BLK	LCS	Finnell Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water
Sample Collected	Reporting		11/08/07			
Date analyzed	Limits	11/13/07	11/13/07	11/13/07	11/13/07	11/13/07

Surrogate recoveries:

Dibromofluoromethane	127%	124%	133%	127%	128%
Toluene-d8	104%	105%	106%	104%	105%
4-Bromofluorobenzene	101%	101%	100%	99%	101%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
J - estimated quantitation, below listed reporting limits
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

ESN NW BELLEVUE CHEMISTRY LABORATORY
 Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71112.1
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Finnell Lake
 Client Job Number:

Analytical Results

8270, µg/L	MTH BLK	LCS	Finnell Lake	MS	MSD	RPD	
Matrix	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	11/19/07	11/19/07	11/14/07	11/19/07	11/19/07	
Date analyzed	Limits	11/19/07	11/19/07	11/19/07	11/19/07	11/19/07	
Sample collected	11/08/07						
Pyridine	2.0	nd		nd			
Aniline	2.0	nd		nd			
Phenol	2.0	nd		nd	102%	100%	2%
2-Chlorophenol	2.0	nd		nd	115%	119%	3%
Bis (2-chloroethyl) ether	2.0	nd		nd			
1,3-Dichlorobenzene	2.0	nd		nd			
1,4-Dichlorobenzene	2.0	nd	120%	nd	105%	107%	2%
1,2-Dichlorobenzene	2.0	nd		nd			
N-methylpyrrolidone	2.0	nd		nd			
Benzyl alcohol	2.0	nd		nd			
2-Methylphenol (o-cresol)	2.0	nd		nd			
Bis (2-chloroisopropyl) ether	10.0	nd		nd			
3,4-Methylphenol (m,p-cresol)	2.0	nd		nd			
Hexachloroethane	2.0	nd		nd			
N-Nitroso-di-n-propylamine	2.0	nd		nd	113%	115%	2%
Nitrobenzene	2.0	nd		nd			
Isophorone	2.0	nd		nd			
2-Nitrophenol	10.0	nd		nd			
4-Nitrophenol	10.0	nd		nd	75%	79%	5%
2,4-Dimethylphenol	2.0	nd		nd			
Bis (2-chloroethoxy) methane	2.0	nd		nd			
2,4-Dichlorophenol	10.0	nd		nd			
1,2,4-Trichlorobenzene	2.0	nd		nd			
Naphthalene	2.0	nd		nd			
4-Chloroaniline	10.0	nd		nd			
Hexachlorobutadiene	2.0	nd	120%	nd			
4-Chloro-3-methylphenol	10.0	nd		nd	79%	81%	3%
2-Methylnaphthalene	2.0	nd		nd			
1-Methylnaphthalene	2.0	nd		nd			
Hexachlorocyclopentadiene	2.0	nd		nd			
2,4,6-Trichlorophenol	10.0	nd		nd			
2,4,5-Trichlorophenol	10.0	nd		nd			
2-Chloronaphthalene	2.0	nd		nd			
2-Nitroaniline	10.0	nd		nd			
1,4-Dinitrobenzene	10.0	nd		nd			
Dimethylphthalate	2.0	nd		nd			
Acenaphthylene	0.2	nd		nd			
1,3-Dinitrobenzene	10.0	nd		nd			
2,6-Dinitrotoluene	2.0	nd		nd			
1,2-Dinitrobenzene	2.0	nd		nd			
Acenaphthene	0.2	nd	100%	nd	88%	91%	3%
3-Nitroaniline	10.0	nd		nd			
Dibenzofuran	2.0	nd		nd			
2,4-Dinitrotoluene	2.0	nd		nd			
2,3,4,6-Tetrachlorophenol	2.0	nd		nd			
2,3,5,6-Tetrachlorophenol	2.0	nd		nd			
2,4-Dinitrophenol	10.0	nd		nd			
Fluorene	0.2	nd		nd			
4-Chlorophenylphenylether	2.0	nd		nd			
Diethylphthalate	2.0	nd		nd			
4-Nitroaniline	10.0	nd		nd			
4,6-Dinitro-2-methylphenol	10.0	nd		nd			
N-nitrosodiphenylamine	2.0	nd		nd			
Azobenzene	2.0	nd		nd			
4-Bromophenylphenylether	2.0	nd		nd			
Hexachlorobenzene	2.0	nd		nd			
Pentachlorophenol	10.0	nd		nd	102%	103%	2%
Phenanthrene	0.2	nd		nd			
Anthracene	0.2	nd		nd			
Carbazole	2.0	nd		nd			
Di-n-butylphthalate	2.0	nd		nd			
Fluoranthene	0.2	nd	122%	nd			
Pyrene	0.2	nd		nd	99%	104%	5%
Butylbenzylphthalate	2.0	nd		nd			
Bis(2-ethylhexyl) adipate	2.0	nd		nd			
Benzo(a)anthracene	0.2	nd		nd			
Chrysene	0.2	nd		nd			
Bis (2-ethylhexyl) phthalate	2.0	nd		nd			
Di-n-octyl phthalate	2.0	nd		nd			
Benzo(b)fluoranthene	0.2	nd		nd			
Benzo(k)fluoranthene	0.2	nd		nd			
Benzo(a)pyrene	0.2	nd	110%	nd			
Dibenzo(a,h)anthracene	0.2	nd		nd			
Benzo(ghi)perylene	0.2	nd		nd			
Indeno(1,2,3-cd)pyrene	0.2	nd		nd			

ESN NW BELLEVUE CHEMISTRY LABORATORY
 Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71112.1
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Finnell Lake
 Client Job Number:

Analytical Results

8270, µg/L		MTH BLK	LCS	Finnell Lake	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	11/19/07	11/19/07	11/14/07	11/19/07	11/19/07	
Date analyzed	Limits	11/19/07	11/19/07	11/19/07	11/19/07	11/19/07	
Sample collected				11/08/07			

Surrogate recoveries

2-Fluorophenol	119%				107%	118%	
Phenol-d6	120%				109%	111%	
Nitrobenzene-d5	114%	66%		68%	108%	100%	
2-Fluorobiphenyl	117%	62%		114%	111%	114%	
2,4,6-Tribromophenol	129%				126%	128%	
4-Terphenyl-d14	124%	78%		134%	116%	131%	

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

Acceptable Recovery limits:

- 2-Fluorophenol: 10-135 %
- Phenol - d5: 10-135 %
- 2,4,6- tribromophenol: 29-159%
- Nitrobenzene - d5: 20-120 %
- 2-Fluorobiphenyl: 50-150%
- p-Terphenyl-d14: 50-150%
- Acceptable RPD limit: 35%

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9804

ESN Job Number: S71005.4
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Dixon's Pond
 Client Job Number:

Analytical Results

8260, µg/L	MTH BLK		LCS Dixon's Pond		MS	MSD	RPD
	Water	Water	Water	Water	Water	Water	
Matrix	Reporting						
Date analyzed	Limits	10/14/07	10/14/07	10/14/07	10/14/07	10/14/07	
Dichlorodifluoromethane	1.0	nd		nd			
Chloromethane	1.0	nd		nd			
Vinyl chloride	0.2	nd		nd			
Bromomethane	1.0	nd		nd			
Chloroethane	1.0	nd		nd			
Trichlorofluoromethane	1.0	nd		nd			
Acetone	10.0	nd		nd			
1,1-Dichloroethene	1.0	nd	100%	nd	94%	93%	1%
Methylene chloride	10.0	nd		nd			
Methyl-t-butyl ether (MTBE)	1.0	nd		nd			
trans-1,2-Dichloroethene	1.0	nd		nd			
1,1-Dichloroethane	1.0	nd		nd			
n-Hexane	1.0	nd		nd			
2-Butanone (MEK)	10.0	nd		nd			
cis-1,2-Dichloroethene	1.0	nd		nd			
2,2-Dichloropropane	1.0	nd		nd			
Chloroform	1.0	nd		nd			
Bromochloromethane	1.0	nd		nd			
1,1,1-Trichloroethane	1.0	nd		nd			
1,2-Dichloroethane (EDC)	1.0	nd		nd			
1,1-Dichloropropene	1.0	nd		nd			
Carbon tetrachloride	1.0	nd		nd			
Benzene	1.0	nd	104%	nd	98%	100%	2%
Trichloroethene (TCE)	1.0	nd	104%	nd	99%	101%	2%
1,2-Dichloropropane	1.0	nd		nd			
Dibromomethane	1.0	nd		nd			
Bromodichloromethane	1.0	nd		nd			
4-Methyl-2-pentanone (MIBK)	1.0	nd		nd			
cis-1,3-Dichloropropene	1.0	nd		nd			
Toluene	1.0	nd	105%	nd	101%	102%	1%
trans-1,3-Dichloropropene	1.0	nd		nd			
1,1,2-Trichloroethane	1.0	nd		nd			
2-Hexanone	1.0	nd		nd			
1,3-Dichloropropane	1.0	nd		nd			
Dibromochloromethane	1.0	nd		nd			
Tetrachloroethene (PCE)	1.0	nd		nd			
1,2-Dibromoethane (EDB)	0.10	nd		nd			
Chlorobenzene	1.0	nd	108%	nd	104%	105%	1%
1,1,1,2-Tetrachloroethane	1.0	nd		nd			
Ethylbenzene	1.0	nd		nd			
Xylenes	1.0	nd		nd			
Styrene	1.0	nd		nd			
Bromoform	1.0	nd		nd			
1,1,2,2-Tetrachloroethane	1.0	nd		nd			
Isopropylbenzene	1.0	nd		nd			
1,2,3-Trichloropropane	1.0	nd		nd			
Bromobenzene	1.0	nd		nd			
n-Propylbenzene	1.0	nd		nd			
2-Chlorotoluene	1.0	nd		nd			
4-Chlorotoluene	1.0	nd		nd			
1,3,5-Trimethylbenzene	1.0	nd		nd			
tert-Butylbenzene	1.0	nd		nd			
1,2,4-Trimethylbenzene	1.0	nd		nd			
sec-Butylbenzene	1.0	nd		nd			
1,3-Dichlorobenzene	1.0	nd		nd			
1,4-Dichlorobenzene	1.0	nd		nd			
Isopropyltoluene	1.0	nd		nd			
1,2-Dichlorobenzene	1.0	nd		nd			
n-Butylbenzene	1.0	nd		1.0			
1,2-Dibromo-3-Chloropropane	1.0	nd		nd			
1,2,4-Trichlorobenzene	1.0	nd		nd			
Naphthalene	1.0	nd		27			
Hexachloro-1,3-butadiene	1.0	nd		nd			
1,2,3-Trichlorobenzene	1.0	nd		nd			

*-Instrument detection limits

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

ESN Job Number: S71005.4
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Dixon's Pond
 Client Job Number:

Analytical Results

8260, µg/L	MTH BLK	LCS	Dixon's Pond	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water
	Reporting					
Date analyzed	Limits	10/14/07	10/14/07	10/14/07	10/14/07	10/14/07

Surrogate recoveries:

Dibromofluoromethane	116%	112%	112%	110%	111%
Toluene-d8	98%	97%	99%	97%	97%
4-Bromofluorobenzene	98%	97%	98%	95%	94%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
 J - estimated quantitation, below listed reporting limits
 Acceptable Recovery limits: 65% TO 135%
 Acceptable RPD limit: 35%

ESN SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

ESN Job Number: S71016.2
Client: Washington Department of Fish and Wildlife
Client Job Name: Negro Creek
Client Job Number:

Analytical Results

8260, µg/L	MTH BLK		LCS Negro Creek		MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water	
	Reporting						
Date analyzed	Limits	10/17/07	10/17/07	10/17/07	10/17/07	10/17/07	
Dichlorodifluoromethane	1.0	nd		nd			
Chloromethane	1.0	nd		nd			
Vinyl chloride	0.2	nd		nd			
Bromomethane	1.0	nd		nd			
Chloroethane	1.0	nd		nd			
Trichlorofluoromethane	1.0	nd		nd			
Acetone	10.0	nd		nd			
1,1-Dichloroethene	1.0	nd	105%	nd	104%	100%	4%
Methylene chloride	10.0	nd		nd			
Methyl-t-butyl ether (MTBE)	1.0	nd		nd			
trans-1,2-Dichloroethene	1.0	nd		nd			
1,1-Dichloroethane	1.0	nd		nd			
n-Hexane	1.0	nd		nd			
2-Butanone (MEK)	10.0	nd		nd			
cis-1,2-Dichloroethene	1.0	nd		nd			
2,2-Dichloropropane	1.0	nd		nd			
Chloroform	1.0	nd		nd			
Bromochloromethane	1.0	nd		nd			
1,1,1-Trichloroethane	1.0	nd		nd			
1,2-Dichloroethane (EDC)	1.0	nd		nd			
1,1-Dichloropropene	1.0	nd		nd			
Carbon tetrachloride	1.0	nd		nd			
Benzene	1.0	nd	101%	nd	101%	100%	1%
Trichloroethene (TCE)	1.0	nd	101%	nd	102%	100%	2%
1,2-Dichloropropane	1.0	nd		nd			
Dibromomethane	1.0	nd		nd			
Bromodichloromethane	1.0	nd		nd			
4-Methyl-2-pentanone (MIBK)	1.0	nd		nd			
cis-1,3-Dichloropropene	1.0	nd		nd			
Toluene	1.0	nd	104%	nd	108%	108%	0%
trans-1,3-Dichloropropene	1.0	nd		nd			
1,1,2-Trichloroethane	1.0	nd		nd			
2-Hexanone	1.0	nd		nd			
1,3-Dichloropropane	1.0	nd		nd			
Dibromochloromethane	1.0	nd		nd			
Tetrachloroethene (PCE)	1.0	nd		nd			
1,2-Dibromoethane (EDB)	0.10	nd		nd			
Chlorobenzene	1.0	nd	110%	nd	114%	114%	0%
1,1,1,2-Tetrachloroethane	1.0	nd		nd			
Ethylbenzene	1.0	nd		nd			
Xylenes	1.0	nd		nd			
Styrene	1.0	nd		nd			
Bromoform	1.0	nd		nd			
1,1,2,2-Tetrachloroethane	1.0	nd		nd			
Isopropylbenzene	1.0	nd		nd			
1,2,3-Trichloropropane	1.0	nd		nd			
Bromobenzene	1.0	nd		nd			
n-Propylbenzene	1.0	nd		1.5			
2-Chlorotoluene	1.0	nd		nd			
4-Chlorotoluene	1.0	nd		nd			
1,3,5-Trimethylbenzene	1.0	nd		5.0			
tert-Butylbenzene	1.0	nd		nd			
1,2,4-Trimethylbenzene	1.0	nd		54			
sec-Butylbenzene	1.0	nd		2.3			
1,3-Dichlorobenzene	1.0	nd		nd			
1,4-Dichlorobenzene	1.0	nd		nd			
Isopropyltoluene	1.0	nd		3.0			
1,2-Dichlorobenzene	1.0	nd		nd			
n-Butylbenzene	1.0	nd		140			
1,2-Dibromo-3-Chloropropane	1.0	nd		nd			
1,2,4-Trichlorobenzene	1.0	nd		nd			
Naphthalene	1.0	nd		1,900			
Hexachloro-1,3-butadiene	1.0	nd		nd			
1,2,3-Trichlorobenzene	1.0	nd		nd			

*-Instrument detection limits

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

ESN Job Number: S71016.2
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Negro Creek
 Client Job Number:

Analytical Results

8260, µg/L	MTH BLK		LCS	Negro Creek	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water	
	Reporting						
Date analyzed	Limits	10/17/07	10/17/07	10/17/07	10/17/07	10/17/07	10/17/07

Surrogate recoveries:

Dibromofluoromethane	121%	117%	121%	119%	118%
Toluene-d8	96%	95%	97%	94%	94%
4-Bromofluorobenzene	93%	96%	74%	93%	92%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
 J - estimated quantitation, below listed reporting limits
 Acceptable Recovery limits: 65% TO 135%
 Acceptable RPD limit: 35%

ESN NW BELLEVUE CHEMISTRY LABORATORY
Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71016.2
Client: Washington Department of Fish and Wildlife
Client Job Name: Negro Creek
Client Job Number:

Analytical Results

8270, µg/L	MTH BLK	LCS	Negro Creek	MS	MSD	RPD	
Matrix	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	10/22/07	10/22/07	10/18/07	10/22/07	10/22/07	
Date analyzed	Limits	10/22/07	10/22/07	10/22/07	10/22/07	10/22/07	
Pyridine	2.0	nd		nd			
Aniline	2.0	nd		nd			
Phenol	2.0	nd		nd	46%	47%	2%
2-Chlorophenol	2.0	nd		nd	61%	66%	8%
Bis (2-chloroethyl) ether	2.0	nd		nd			
1,3-Dichlorobenzene	2.0	nd		nd			
1,4-Dichlorobenzene	2.0	nd	119%	nd	103%	104%	1%
1,2-Dichlorobenzene	2.0	nd		nd			
N-methylpyrrolidone	2.0	nd		nd			
Benzyl alcohol	2.0	nd		nd			
2-Methylphenol (o-cresol)	2.0	nd		nd			
Bis (2-chloroisopropyl) ether	10.0	nd		nd			
3,4-Methylphenol (m,p-cresol)	2.0	nd		nd			
Hexachloroethane	2.0	nd		nd			
N-Nitroso-di-n-propylamine	2.0	nd		nd	94%	96%	2%
Nitrobenzene	2.0	nd		nd			
Isophorone	2.0	nd		nd			
2-Nitrophenol	10.0	nd		nd			
4-Nitrophenol	10.0	nd		nd	41%	47%	14%
2,4-Dimethylphenol	2.0	nd		nd			
Bis (2-chloroethoxy) methane	2.0	nd		nd			
2,4-Dichlorophenol	10.0	nd		nd			
1,2,4-Trichlorobenzene	2.0	nd		nd	115%	116%	1%
Naphthalene	2.0	nd		165			
4-Chloroaniline	10.0	nd		nd			
Hexachlorobutadiene	2.0	nd	114%	nd			
4-Chloro-3-methylphenol	10.0	nd		nd	74%	77%	4%
2-Methylnaphthalene	2.0	nd		nd			
1-Methylnaphthalene	2.0	nd		nd			
Hexachlorocyclopentadiene	2.0	nd		nd			
2,4,6-Trichlorophenol	10.0	nd		nd			
2,4,5-Trichlorophenol	10.0	nd		nd			
2-Chloronaphthalene	2.0	nd		nd			
2-Nitroaniline	10.0	nd		nd			
1,4-Dinitrobenzene	10.0	nd		nd			
Dimethylphthalate	2.0	nd		nd			
Acenaphthylene	0.2	nd		nd			
1,3-Dinitrobenzene	10.0	nd		nd			
2,6-Dinitrotoluene	2.0	nd		nd			
1,2-Dinitrobenzene	2.0	nd		nd			
Acenaphthene	0.2	nd	96%	nd	90%	94%	4%
3-Nitroaniline	10.0	nd		nd			
Dibenzofuran	2.0	nd		nd			
2,4-Dinitrotoluene	2.0	nd		nd			
2,3,4,6-Tetrachlorophenol	2.0	nd		nd			
2,3,5,6-Tetrachlorophenol	2.0	nd		nd			
2,4-Dinitrophenol	10.0	nd		nd			
Fluorene	0.2	nd		nd			
4-Chlorophenylphenylether	2.0	nd		nd			
Diethylphthalate	2.0	nd		nd			
4-Nitroaniline	10.0	nd		nd			
4,6-Dinitro-2-methylphenol	10.0	nd		nd			
N-nitrosodiphenylamine	2.0	nd		nd			
Azobenzene	2.0	nd		nd			
4-Bromophenylphenylether	2.0	nd		nd			
Hexachlorobenzene	2.0	nd		nd			
Pentachlorophenol	10.0	nd		nd	78%	82%	5%
Phenanthrene	0.2	nd		nd			
Anthracene	0.2	nd		nd			
Carbazole	2.0	nd		nd			
Di-n-butylphthalate	2.0	nd		nd			
Fluoranthene	0.2	nd	119%	nd			
Pyrene	0.2	nd		nd	94%	100%	6%
Butylbenzylphthalate	2.0	nd		nd			
Bis(2-ethylhexyl) adipate	2.0	nd		nd			
Benzo(a)anthracene	0.2	nd		nd			
Chrysene	0.2	nd		nd			
Bis (2-ethylhexyl) phthalate	2.0	nd		nd			
Di-n-octyl phthalate	2.0	nd		nd			
Benzo(b)fluoranthene	0.2	nd		nd			
Benzo(k)fluoranthene	0.2	nd		nd			
Benzo(a)pyrene	0.2	nd	55%	nd			
Dibenzo(a,h)anthracene	0.2	nd		nd			
Benzo(ghi)perylene	0.2	nd		nd			
Indeno(1,2,3-cd)pyrene	0.2	nd		nd			

ESN NW BELLEVUE CHEMISTRY LABORATORY
 Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71016.2
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Negro Creek
 Client Job Number:

Analytical Results

8270, µg/L		MTH BLK	LCS	Negro Creek	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	10/22/07	10/22/07	10/18/07	10/22/07	10/22/07	
Date analyzed	Limits	10/22/07	10/22/07	10/22/07	10/22/07	10/22/07	

Surrogate recoveries

2-Fluorophenol	84%				57%	60%
Phenol-d6	86%				61%	64%
Nitrobenzene-d5	92%	50%		48%	69%	70%
2-Fluorobiphenyl	116%	64%		126%	118%	120%
2,4,6-Tribromophenol	115%				113%	124%
4-Terphenyl-d14	102%	80%		108%	103%	127%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

Acceptable Recovery limits:

- 2-Fluorophenol: 10-135 %
- Phenol - d5: 10-135 %
- 2,4,6- tribromophenol: 29-159%
- Nitrobenzene - d5: 20-120 %
- 2-Fluorobiphenyl: 50-150%
- p-Terphenyl-d14: 50-150%
- Acceptable RPD limit: 35%

ESN SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

ESN Job Number: S71109.2
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Negro Creek
 Client Job Number:

Analytical Results

8260, µg/L	MTH BLK	LCS	Negro Creek	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	
Sample Collected	Reporting		11/08/07			
Date analyzed	Limits	11/13/07	11/13/07	11/13/07	11/13/07	
Dichlorodifluoromethane	1.0	nd		nd		
Chloromethane	1.0	nd		nd		
Vinyl chloride	0.2	nd		nd		
Bromomethane	1.0	nd		nd		
Chloroethane	1.0	nd		nd		
Trichlorofluoromethane	1.0	nd		nd		
Acetone	10.0	nd		nd		
1,1-Dichloroethene	1.0	nd	90%	nd	96%	94%
Methylene chloride	10.0	nd		nd		2%
Methyl-t-butyl ether (MTBE)	1.0	nd		nd		
trans-1,2-Dichloroethene	1.0	nd		nd		
1,1-Dichloroethane	1.0	nd		nd		
n-Hexane	1.0	nd		nd		
2-Butanone (MEK)	10.0	nd		nd		
cis-1,2-Dichloroethene	1.0	nd		nd		
2,2-Dichloropropane	1.0	nd		nd		
Chloroform	1.0	nd		nd		
Bromochloromethane	1.0	nd		nd		
1,1,1-Trichloroethane	1.0	nd		nd		
1,2-Dichloroethane (EDC)	1.0	nd		nd		
1,1-Dichloropropene	1.0	nd		nd		
Carbon tetrachloride	1.0	nd		nd		
Benzene	1.0	nd	102%	nd	106%	101%
Trichloroethene (TCE)	1.0	nd	104%	nd	106%	104%
1,2-Dichloropropane	1.0	nd		nd		2%
Dibromomethane	1.0	nd		nd		
Bromodichloromethane	1.0	nd		nd		
4-Methyl-2-pentanone (MIBK)	1.0	nd		nd		
cis-1,3-Dichloropropene	1.0	nd		nd		
Toluene	1.0	nd	105%	nd	112%	110%
trans-1,3-Dichloropropene	1.0	nd		nd		2%
1,1,2-Trichloroethane	1.0	nd		nd		
2-Hexanone	1.0	nd		nd		
1,3-Dichloropropane	1.0	nd		nd		
Dibromochloromethane	1.0	nd		nd		
Tetrachloroethene (PCE)	1.0	nd		nd		
1,2-Dibromoethane (EDB)	0.10	nd		nd		
Chlorobenzene	1.0	nd	114%	nd	120%	119%
1,1,1,2-Tetrachloroethane	1.0	nd		nd		1%
Ethylbenzene	1.0	nd		nd		
Xylenes	1.0	nd		nd		
Styrene	1.0	nd		nd		
Bromoform	1.0	nd		nd		
1,1,2,2-Tetrachloroethane	1.0	nd		nd		
Isopropylbenzene	1.0	nd		nd		
1,2,3-Trichloropropane	1.0	nd		nd		
Bromobenzene	1.0	nd		nd		
n-Propylbenzene	1.0	nd		nd		
2-Chlorotoluene	1.0	nd		nd		
4-Chlorotoluene	1.0	nd		nd		
1,3,5-Trimethylbenzene	1.0	nd		nd		
tert-Butylbenzene	1.0	nd		nd		
1,2,4-Trimethylbenzene	1.0	nd		nd		
sec-Butylbenzene	1.0	nd		nd		
1,3-Dichlorobenzene	1.0	nd		nd		
1,4-Dichlorobenzene	1.0	nd		nd		
Isopropyltoluene	1.0	nd		nd		
1,2-Dichlorobenzene	1.0	nd		nd		
n-Butylbenzene	1.0	nd		nd		
1,2-Dibromo-3-Chloropropane	1.0	nd		nd		
1,2,4-Trichlorobenzene	1.0	nd		nd		
Naphthalene	1.0	nd		nd		
Hexachloro-1,3-butadiene	1.0	nd		nd		
1,2,3-Trichlorobenzene	1.0	nd		nd		

*-instrument detection limits

ESN SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

ESN Job Number: S71109.2
Client: Washington Department of Fish and Wildlife
Client Job Name: Negro Creek
Client Job Number:

Analytical Results

8260, µg/L	MTH BLK	LCS	Negro Creek	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water
Sample Collected	Reporting			11/08/07		
Date analyzed	Limits	11/13/07	11/13/07	11/13/07	11/13/07	11/13/07

Surrogate recoveries:

Dibromofluoromethane	127%	124%	134%	127%	128%
Toluene-d8	104%	105%	104%	104%	105%
4-Bromofluorobenzene	101%	101%	100%	99%	101%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
J - estimated quantitation, below listed reporting limits
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

ESN NW BELLEVUE CHEMISTRY LABORATORY
Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71109.2
Client: Washington Department of Fish and Wildlife
Client Job Name: Negro Creek
Client Job Number:

Analytical Results

8270, µg/L	MTH BLK		LCS Negro Creek		MS	MSD	RPD
	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	11/19/07	11/19/07	11/14/07	11/19/07	11/19/07	
Date analyzed	Limits	11/19/07	11/19/07	11/19/07	11/19/07	11/19/07	
Sample collected				11/08/07			
Pyridine	2.0	nd		nd			
Aniline	2.0	nd		nd			
Phenol	2.0	nd		nd	102%	100%	2%
2-Chlorophenol	2.0	nd		nd	115%	119%	3%
Bis (2-chloroethyl) ether	2.0	nd		nd			
1,3-Dichlorobenzene	2.0	nd		nd			
1,4-Dichlorobenzene	2.0	nd	120%	nd	105%	107%	2%
1,2-Dichlorobenzene	2.0	nd		nd			
N-methylpyrrolidone	2.0	nd		nd			
Benzyl alcohol	2.0	nd		nd			
2-Methylphenol (o-cresol)	2.0	nd		nd			
Bis (2-chloroisopropyl) ether	2.0	nd		nd			
3,4-Methylphenol (m,p-cresol)	2.0	nd		nd			
Hexachloroethane	2.0	nd		nd			
N-Nitroso-di-n-propylamine	2.0	nd		nd	113%	115%	2%
Nitrobenzene	2.0	nd		nd			
Isophorone	2.0	nd		nd			
2-Nitrophenol	10.0	nd		nd			
4-Nitrophenol	10.0	nd		nd	75%	79%	5%
2,4-Dimethylphenol	2.0	nd		nd			
Bis (2-chloroethoxy) methane	2.0	nd		nd			
2,4-Dichlorophenol	10.0	nd		nd			
1,2,4-Trichlorobenzene	2.0	nd		nd			
Naphthalene	2.0	nd		nd			
4-Chloroaniline	10.0	nd		nd			
Hexachlorobutadiene	2.0	nd	120%	nd			
4-Chloro-3-methylphenol	10.0	nd		nd	79%	81%	3%
2-Methylnaphthalene	2.0	nd		nd			
1-Methylnaphthalene	2.0	nd		nd			
Hexachlorocyclopentadiene	2.0	nd		nd			
2,4,6-Trichlorophenol	10.0	nd		nd			
2,4,5-Trichlorophenol	10.0	nd		nd			
2-Chloronaphthalene	2.0	nd		nd			
2-Nitroaniline	10.0	nd		nd			
1,4-Dinitrobenzene	10.0	nd		nd			
Dimethylphthalate	2.0	nd		nd			
Acenaphthylene	0.2	nd		nd			
1,3-Dinitrobenzene	10.0	nd		nd			
2,6-Dinitrotoluene	2.0	nd		nd			
1,2-Dinitrobenzene	2.0	nd		nd			
Acenaphthene	0.2	nd	100%	nd	88%	91%	3%
3-Nitroaniline	10.0	nd		nd			
Dibenzofuran	2.0	nd		nd			
2,4-Dinitrotoluene	2.0	nd		nd			
2,3,4,6-Tetrachlorophenol	2.0	nd		nd			
2,3,5,6-Tetrachlorophenol	2.0	nd		nd			
2,4-Dinitrophenol	10.0	nd		nd			
Fluorene	0.2	nd		nd			
4-Chlorophenylphenylether	2.0	nd		nd			
Diethylphthalate	2.0	nd		nd			
4-Nitroaniline	10.0	nd		nd			
4,6-Dinitro-2-methylphenol	10.0	nd		nd			
N-nitrosodiphenylamine	2.0	nd		nd			
Azobenzene	2.0	nd		nd			
4-Bromophenylphenylether	2.0	nd		nd			
Hexachlorobenzene	2.0	nd		nd			
Pentachlorophenol	10.0	nd		nd	102%	103%	2%
Phenanthrene	0.2	nd		nd			
Anthracene	0.2	nd		nd			
Carbazole	2.0	nd		nd			
Di-n-butylphthalate	2.0	nd		nd			
Fluoranthene	0.2	nd	122%	nd			
Pyrene	0.2	nd		nd	99%	104%	5%
Butylbenzylphthalate	2.0	nd		nd			
Bis(2-ethylhexyl) adipate	2.0	nd		nd			
Benzo(a)anthracene	0.2	nd		nd			
Chrysene	0.2	nd		nd			
Bis (2-ethylhexyl) phthalate	2.0	nd		nd			
Di-n-octyl phthalate	2.0	nd		nd			
Benzo(b)fluoranthene	0.2	nd		nd			
Benzo(k)fluoranthene	0.2	nd		nd			
Benzo(a)pyrene	0.2	nd	110%	nd			
Dibenzo(a,h)anthracene	0.2	nd		nd			
Benzo(ghi)perylene	0.2	nd		nd			
Indeno(1,2,3-cd)pyrene	0.2	nd		nd			

ESN NW BELLEVUE CHEMISTRY LABORATORY
 Tel:(425) 957-9872, Fax: (425) 957-9904

ESN Job Number: S71109.2
 Client: Washington Department of Fish and Wildlife
 Client Job Name: Negro Creek
 Client Job Number:

Analytical Results

8270, µg/L		MTH BLK	LCS	Negro Creek	MS	MSD	RPD
Matrix	Water	Water	Water	Water	Water	Water	
Date extracted	Reporting	11/19/07	11/19/07	11/14/07	11/19/07	11/19/07	
Date analyzed	Limits	11/19/07	11/19/07	11/19/07	11/19/07	11/19/07	
Sample collected				11/08/07			

Surrogate recoveries

2-Fluorophenol	119%			107%	118%
Phenol-d6	120%			109%	111%
Nitrobenzene-d5	114%	66%	66%	108%	100%
2-Fluorobiphenyl	117%	62%	115%	111%	114%
2,4,6-Tribromophenol	129%			126%	128%
4-Terphenyl-d14	124%	78%	128%	116%	131%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

Acceptable Recovery limits:

2-Fluorophenol: 10-135 %
 Phenol - d5: 10-135 %
 2,4,6- Tribromophenol: 29-159%
 Nitrobenzene - d5: 20-120 %
 2-Fluorobiphenyl: 50-150%
 p-Terphenyl-d14: 50-150%
 Acceptable RPD limit: 35%