

# FIELD STUDIES INFORMATION SHEET

## May 2010 Field Studies Overview

BC Hydro is conducting environmental and engineering field studies on and around the Peace River. These studies are being conducted mainly between the Williston Reservoir and the B.C. – Alberta border as part of Stage 3 of the Site C Clean Energy Project. Environmental and socio-economic studies will advance from baseline work to impact assessment, including identifying and evaluating potential options for mitigation.

An overview of studies that will be taking place in May 2010 is below. Additional study activities may occur; notice of these studies will be posted at [www.bchydro.com/sitec](http://www.bchydro.com/sitec).

<b>Field Study (additional details are attached)</b>
Wildlife Studies in the Peace Region – Mule Deer, Moose and Elk Study
Wind Monitoring in the Peace River Region
Peace River and Tributaries Fish Studies
Peace River Aquatic Productivity and Assessment
Foundation Testing on the North Bank of the Proposed Dam Site
Peace River Geomorphology and Sediment Transport Studies

Some field studies may require access to public and private land. BC Hydro will obtain permission before accessing private property.

Field study updates are available at [www.bchydro.com/sitec](http://www.bchydro.com/sitec) and in the Community Consultation Offices in Fort St. John and Hudson's Hope.

For further information, please contact:  
Kate O'Neil, Community Relations  
Site C Clean Energy Project  
Community Consultation Office – Fort St. John  
250-785-3420

### SITE C FIELD STUDIES

- Ongoing, regular BC Hydro work may also be taking place on the Peace River and tributaries. This work is in addition to the Site C field study activities outlined here and is related to BC Hydro's Peace River water license requirements program or other operations work. For more information, please visit: [www.bchydro.com/planning\\_regulatory/water\\_us\\_e\\_planning/northern\\_interior.html](http://www.bchydro.com/planning_regulatory/water_us_e_planning/northern_interior.html).
- Golder Associates Ltd. has been employed by BC Hydro to provide environmental and archaeological monitoring during geotechnical investigations.
- BC Hydro has also invited representatives of First Nations to monitor geotechnical work.



**Site C Clean Energy Project**  
PO Box 2218, Vancouver  
British Columbia V6B 3W2

Fax: 604 623 4332  
Toll-free: 1 877 217 0777  
[sitec@bchydro.com](mailto:sitec@bchydro.com)  
[www.bchydro.com/sitec](http://www.bchydro.com/sitec)

**Community Consultation Offices:**  
9948 - 100th Avenue  
Fort St. John, BC V1J 1Y5  
(250) 785 - 3420

The Pearkes Center  
10801 Dudley Street  
Hudson's Hope, BC V0C 1V0

## May 2010 Field Studies Information Sheet

Study Name	Description	Timing
<b>Wildlife Studies in the Peace Region – Mule Deer, Moose and Elk Study</b>	<p>BC Hydro is conducting a mule deer, moose and elk study in the Peace River area from Hudson's Hope to the B.C. – Alberta border.</p> <p>The purpose of the study is to further the understanding of mule deer, moose and elk habitat use and movement patterns in the Peace River region.</p> <p>Monitoring and habitat data collection began in mid-February and will continue for up to 24 months. Animals will be located using a combination of ground based telemetry and fixed wing telemetry flights. Flights are scheduled for the first and last week of the month (weather dependent).</p> <p>Data from snow monitoring stations will be collected concurrently with ground based location of animals during both the first and last week of the month.</p> <p>Access to public and private land may be required in order to complete this study work. BC Hydro will obtain permission from land owners and provide notification to BC Hydro leaseholders before entry onto private or leased lands.</p>	<p>May 2010</p> <p><i>Phase 2 monitoring will occur from February 2010 to winter 2012.</i></p>
<b>Wind Monitoring in the Peace River Region</b>	<p>BC Hydro continues to collect wind data to assist in engineering evaluations for the potential Site C project.</p> <p>Five temporary wind monitoring stations have been placed on private and BC Hydro owned land between Hudson's Hope and the potential Site C dam location.</p> <p>Stations will be visited regularly to retrieve data. Access to the monitoring stations will be by vehicle.</p>	<p>May 2010</p> <p><i>Ongoing monitoring from February 2009.</i></p>



FOR GENERATIONS

**Site C Clean Energy Project**  
PO Box 2218, Vancouver  
British Columbia V6B 3W2

Fax: 604 623 4332  
Toll-free: 1 877 217 0777  
sitec@bchydro.com  
[www.bchydro.com/sitec](http://www.bchydro.com/sitec)

**Community Consultation Offices:**  
9948 - 100th Avenue  
Fort St. John, BC V1J 1Y5  
(250) 785 - 3420

The Pearkes Center  
10801 Dudley Street  
Hudson's Hope, BC V0C 1V0

<p><b>Peace River and Tributaries Fish Studies</b></p>	<p>BC Hydro is continuing fisheries studies on the Peace River and tributaries downstream to the Pouce Coupe River in Alberta. The studies involve collecting baseline fisheries information from the Peace River and tributaries by sampling (and releasing) fish and fish habitat by boat, backpack electro-fishing, beach seines and fish traps.</p> <p>This program includes use of two rotary screw fish traps installed in the Peace River and one rotary screw trap placed in the lower Moberly River. The fish traps will be operated from May to October. Each fish trap is housed in a pontoon structure approximately 4m by 7m.</p> <p>The Peace River fish traps will be located just downstream of the Moberly River confluence, one adjacent to each shore. The Moberly River fish trap will be located about 350 metres upstream from the confluence of the Peace River.</p> <p>Sampling site access will be conducted by foot and boat in the spring, summer and fall. Access to remote sampling sites will be by helicopter.</p> <p>The following sites will be surveyed: Peace River, Moberly River and Halfway River.</p> <p>Access to private land is required in order to complete this study work. BC Hydro will obtain permission from land owners and provide notification to BC Hydro leaseholders before entry onto private or leased lands.</p>	<p>May 2010</p> <p><i>Ongoing studies.</i></p>
<p><b>Peace River Aquatic Productivity and Assessment</b></p>	<p>BC Hydro is initiating a Peace River aquatic and productivity study to collect baseline aquatic data for future assessment and modelling.</p> <p>The study will involve collecting water quality and nutrient samples, lower trophic level organisms (e.g. periphyton, plankton), and invertebrates (insects) from Williston Reservoir, Dinosaur Reservoir, Peace River and its tributaries.</p>	<p>May - October 2010</p>



FOR GENERATIONS

**Site C Clean Energy Project**  
 PO Box 2218, Vancouver  
 British Columbia V6B 3W2

Fax: 604 623 4332  
 Toll-free: 1 877 217 0777  
[sitec@bchydro.com](mailto:sitec@bchydro.com)  
[www.bchydro.com/sitec](http://www.bchydro.com/sitec)

**Community Consultation Offices:**  
 9948 - 100th Avenue  
 Fort St. John, BC V1J 1Y5  
 (250) 785 - 3420

The Pearkes Center  
 10801 Dudley Street  
 Hudson's Hope, BC V0C 1V0

	<p>The field program will be conducted from May through October. Sample site access will be primarily by boat. Foot access will be required to a few sites.</p> <p>Access to public and private land may be required in order to complete this study work. BC Hydro will obtain permission from land owners and provide notification to BC Hydro leaseholders before entry onto private or leased lands.</p>	
<p><b>Foundation Pump Test on the North Bank of the Proposed Dam Site</b></p>	<p>BC Hydro is studying bedrock permeability at the north bank of the proposed dam site.</p> <p>Pump testing will start in mid-May and continue throughout the spring.</p> <p>Environmental monitoring will be conducted during the investigations. North bank access will be by vehicle via the existing north bank access road.</p>	<p>May 2010</p> <p><i>Ongoing studies.</i></p>
<p><b>Peace River Geomorphology and Sediment Transport Studies</b></p>	<p>BC Hydro is conducting river geomorphology and sediment transport studies to characterize baseline river definition and sediment loading at five sites on the Peace River and its tributaries (Farrell Creek, Halfway River, Pine River and two sites in the Peace River extending into Alberta).</p> <p>Turbidity recording stations will be installed to provide data for estimating suspended sediment concentration.</p> <p>The field program will be conducted from May through October. Sample site access will be primarily by boat. Foot access will be required for a few sites.</p> <p>Access to public and private land may be required in order to complete this study work. BC Hydro will obtain permission from land owners and provide notification to BC Hydro leaseholders before entry onto private or leased lands.</p>	<p>May - October 2010</p>

For further information, please contact:  
 Kate O'Neil, Community Relations  
 Site C Clean Energy Project  
 Community Consultation Office – Fort St. John  
 250-785-3420



**Site C Clean Energy Project**  
 PO Box 2218, Vancouver  
 British Columbia V6B 3W2

Fax: 604 623 4332  
 Toll-free: 1 877 217 0777  
[sitec@bchydro.com](mailto:sitec@bchydro.com)  
[www.bchydro.com/sitec](http://www.bchydro.com/sitec)

**Community Consultation Offices:**  
 9948 - 100th Avenue  
 Fort St. John, BC V1J 1Y5  
 (250) 785 - 3420

The Pearkes Center  
 10801 Dudley Street  
 Hudson's Hope, BC V0C 1V0