

**From:** [scotto'brien@lowerchurchillproject.ca](mailto:scotto'brien@lowerchurchillproject.ca)  
**To:** [marion.e.organ/nlhydro](mailto:marion.e.organ/nlhydro)  
**Subject:** Fwd: schedule  
**Date:** Thursday, October 17, 2013 9:30:12 PM  
**Attachments:** [.png](#)  
[.png](#)  
[131016 Basis of Planning.docx](#)  
[131017 Rev-01 Early Works Schedule.pdf](#)

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This is for the meeting Laird has invited you to attend if you've not seen already. It's not quite what I expected.

**Scott O'Brien**

**Project Manager - Muskrat Falls Generation**

**PROJECT DELIVERY TEAM**

**Lower Churchill Project**

t. 709 570-5987 c. 709 764-6537

e. [ScottO'Brien@lowerchurchillproject.ca](mailto:ScottO'Brien@lowerchurchillproject.ca)

w. [muskratfalls.nalcoreenergy.com](http://muskratfalls.nalcoreenergy.com)

Begin forwarded message:

**From:** "Cianni Pierre" <[p.cianni@Astaldi.com](mailto:p.cianni@Astaldi.com)>

**Date:** October 17, 2013 at 16:08:19 ADT

**To:** "[LairdPaton@lowerchurchillproject.ca](mailto:LairdPaton@lowerchurchillproject.ca)"  
<[LairdPaton@lowerchurchillproject.ca](mailto:LairdPaton@lowerchurchillproject.ca)>

**Cc:** "[RonAdamcyk@lowerchurchillproject.ca](mailto:RonAdamcyk@lowerchurchillproject.ca)"  
<[RonAdamcyk@lowerchurchillproject.ca](mailto:RonAdamcyk@lowerchurchillproject.ca)>,  
"[PaulOblander@lowerchurchillproject.ca](mailto:PaulOblander@lowerchurchillproject.ca)"  
<[PaulOblander@lowerchurchillproject.ca](mailto:PaulOblander@lowerchurchillproject.ca)>,  
"[PaulAucoin@lowerchurchillproject.ca](mailto:PaulAucoin@lowerchurchillproject.ca)"  
<[PaulAucoin@lowerchurchillproject.ca](mailto:PaulAucoin@lowerchurchillproject.ca)>,  
"[scotto'brien@lowerchurchillproject.ca](mailto:scotto'brien@lowerchurchillproject.ca)"  
<[scotto'brien@lowerchurchillproject.ca](mailto:scotto'brien@lowerchurchillproject.ca)>,  
"[andremosser@lowerchurchillproject.ca](mailto:andremosser@lowerchurchillproject.ca)"  
<[andremosser@lowerchurchillproject.ca](mailto:andremosser@lowerchurchillproject.ca)>, "Venturini Guido "  
<[g.venturini@astaldi.com](mailto:g.venturini@astaldi.com)>

**Subject: RE: schedule**

Gents,

Please find attached the early works schedule + the summary assumptions taken into account.

Regards

Pierre Cianni

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**From:** [LairdPaton@lowerchurchillproject.ca](mailto:LairdPaton@lowerchurchillproject.ca) [[LairdPaton@lowerchurchillproject.ca](mailto:LairdPaton@lowerchurchillproject.ca)]

**Sent:** October 17, 2013 1:09 PM

**To:** Cianni Pierre

**Cc:** [RonAdamcyk@lowerchurchillproject.ca](mailto:RonAdamcyk@lowerchurchillproject.ca); [PaulOblander@lowerchurchillproject.ca](mailto:PaulOblander@lowerchurchillproject.ca); [PaulAucoin@lowerchurchillproject.ca](mailto:PaulAucoin@lowerchurchillproject.ca)

**Subject:** schedule

Site will be with us via teleconference

Would appreciate if you could send Paul Aucoin a copy of your presentation before the meeting so they can follow presentation at same time.

**Laird Paton**

**Area Construction Manager - Powerhouse/Intake & Spillway**

**PROJECT DELIVERY TEAM**

**Lower Churchill Project**

t. 709-752-3461 x55086 c. 709-725-2862

e. [LairdPaton@lowerchurchillproject.ca](mailto:LairdPaton@lowerchurchillproject.ca)

17 October 2013

From : Pierre Cianni/Michele Brofferio  
To : Guido Venturini  
Cc : K. Chryssolor, V. Robiati  
Subject: Basis of Planning for Early Works Schedule

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Guido,

The Early works Schedule has been developed based on the following assumptions:

- 1: Site conditions dates as per the LNTP attached document.
- 2: All contractor's responsibility permits as listed by the client were captured.
- 3: A 5 days calendar with NL statutory holidays has been used except for the Site conditions dates which used a 7 days calendar in order to respect the dates.
- 4: The Spillway Cover System will be installed prior to the final clean-up of the rock surface which will take place once the Cover is installed. This approach enables us to complete the installation of the Cover before the year end of 2013.
- 5: The Crushing & Screening system will be relocated to the Contractors' laydown area as soon as we have access and the aggregates production will resume and will go on until end of 2013.
- 6: The Existing Béton Provincial Batching Plant will be relocated at the Contractors' Laydown area as soon as the foundations are poured upon receipt of construction permit scheduled on 14 November 2013. The foundations will have to use the Goose Bay concrete supply. With this approach the Batching Plant, line 1 will be operational by end of January 2014.
- 7: The ICS system was based on Information given to us by Ken Chryssolor after, as I understood, he spoke to a potential supplier.

The date used for the completion of the design by Astaldi is November 6<sup>th</sup>, 2013 as per Jack Zhou.

<b>Client: NALCOR energy</b>	<b>MUSKRAT FALLS HYDRO PROJECT</b>	
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Activity ID	Activity Name	Remaining Duration	Start	Finish	2014															
					Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
<b>TEMPORARY - EARLY WORKS - SPILLWAY COVER IMPROVED</b>		216	24-Sep-13	18-Aug-14																
<b>Milestones</b>		108	24-Sep-13	25-Jan-14																
<b>EWPGEN General</b>		35	24-Sep-13	29-Oct-13																
MIL0000	LNTN ISSUED	0	24-Sep-13		◆															
MIL0010	CONTRACT FINALIZATION & SIGNATURE	0		29-Oct-13	◆															
<b>EWPSITE Site Conditions by NALCOR</b>		102	30-Sep-13	25-Jan-14																
EWSITE1030	Site Conditions - Access to Office Area in Accommodation C	0		30-Sep-13	◆															
EWSITE1040	Site Conditions - Access to Area at company Laydown area	0		30-Sep-13	◆															
EWSITE1050	Site Conditions - Access to Area at Contractor Laydown area	0		30-Sep-13	◆															
EWSITE1060	Site Conditions - Availability of Company Radio Mobile system	0		30-Sep-13	◆															
EWSITE1070	Site Conditions - Availability of Telephone services	0		30-Sep-13	◆															
EWSITE1080	Site Conditions - Power Supply to: Office complex	0		30-Sep-13	◆															
EWSITE1090	Site Conditions - Power Supply to: Company Laydown	0		15-Oct-13*	◆															
EWSITE1100	Site Conditions - Power Supply to: Contractor Laydown area	0		15-Oct-13*	◆															
EWSITE1020	Site Conditions - Camp Accommodations (In accordance with	0		30-Oct-13*	◆															
EWSITE1170	Site Conditions - Start of Bus Services By NALCOR	0	01-Nov-13*		◆															
EWSITE1000	Site Conditions - Spillway Ready for shared access	0		15-Nov-13	◆															
EWSITE1010	Site Conditions - Power House Ready for Shared access	0		30-Nov-13	◆															
EWSITE1120	Site Conditions - Power Supply to: Power House	0		30-Nov-13	◆															
EWSITE1140	Site Conditions - Power Supply to: Spillway	0		30-Nov-13	◆															
EWSITE1150	Site Conditions - Take over Dewatering	0	30-Nov-13*		◆															
EWSITE1160	Site Conditions - Start Road Maintenance	0	30-Nov-13*		◆															
EWSITE1110	Site Conditions - Power Supply to: Contractor Laydown area,	0		25-Jan-14*	◆															
EWSITE1130	Site Conditions - Power Supply to: Power House, Switchgear	0		25-Jan-14*	◆															
<b>Permits</b>		109	10-Oct-13	31-Mar-14																
<b>PER.011 Contractor's Temporary Site Office</b>		15	10-Oct-13	31-Oct-13																
PER011-1000	Permit: Temporary Contractor Office - Define Documents to b	4	10-Oct-13	16-Oct-13	■															
PER011-1010	Permit: Temporary Contractor Office - Documents Preparation	2	17-Oct-13	18-Oct-13	■															
PER011-1020	Permit: Temporary Contractor Office - Documents Approval b	1	21-Oct-13	21-Oct-13	■															
PER011-1030	Permit: Temporary Contractor Office - Permit Application & P	8	22-Oct-13	31-Oct-13	■															
PER011-1040	Permit: Temporary Contractor Office - Permit Issued for Occu	0		31-Oct-13	◆															
<b>PER.001 Main Contractor Office Construction</b>		35	12-Nov-13	13-Jan-14																
PER001-1000	Permit: Main Contractor Office - Define Documents to be pre	5	12-Nov-13	18-Nov-13	■															
PER001-1010	Permit: Main Contractor Office - Documents Preparation	5	19-Nov-13	25-Nov-13	■															
PER001-1020	Permit: Main Contractor Office - Documents Approval by Cli	15	26-Nov-13	16-Dec-13	■															
PER001-1030	Permit: Main Contractor Office - Permit Application & Process	10	17-Dec-13	13-Jan-14	■															

<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Actual Work (Blue bar)    Critical Remaining Work (Red bar)</p> <p>Remaining Work (Green bar)    Milestone (Black diamond)</p> </div> <div style="width: 45%; text-align: center;"> <p><b>EARLY WORKS DETAILED SCHEDULE</b></p> <p>Page 1 of 11</p> </div> </div>	<table border="1" style="width: 100%;"> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> <tr> <td>17-Oct-13</td> <td>Issued for Comments</td> <td>PC/MB</td> <td></td> </tr> </table>	Date	Revision	Checked	Approved	17-Oct-13	Issued for Comments	PC/MB	
Date	Revision	Checked	Approved						
17-Oct-13	Issued for Comments	PC/MB							

<b>Client: NALCOR energy</b>	<b>MUSKRAT FALLS HYDRO PROJECT</b>	
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Activity ID	Activity Name	Remaining Duration	Start	Finish	2014																		
					Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov				
PER001-1040	Permit: Main Contractor Office - Permit Issued	0		13-Jan-14					◆ Permit: Main Contractor Office - Permit Issued														
<b>PER.002 Water and Sewerage Works</b>					50	21-Oct-13	13-Jan-14																
PER002-9999	Permit: Water and Sewerage Works - Define Documents to b	5	21-Oct-13	25-Oct-13					□ Permit: Water and Sewerage Works - Define Documents to be prepared														
PER002-1000	Permit: Water and Sewerage Works - Documents Preparation	15	04-Nov-13	25-Nov-13					▬ Permit: Water and Sewerage Works - Documents Preparation														
PER002-1010	Permit: Water and Sewerage Works - Documents Approval b	15	26-Nov-13	16-Dec-13					▬ Permit: Water and Sewerage Works - Documents Approval by Client														
PER002-1020	Permit: Water and Sewerage Works - Permit Application & P	10	17-Dec-13	13-Jan-14					▬ Permit: Water and Sewerage Works - Permit Application & Process														
PER002-1030	Permit: Water and Sewerage Works - Permit Issued	0		13-Jan-14					◆ Permit: Water and Sewerage Works - Permit Issued														
<b>PER.003 Highway Services Signs</b>					23	23-Oct-13	25-Nov-13																
PER003-9999	Permit: Highway Services Signs - Define Documents to Prep	3	23-Oct-13	25-Oct-13					□ Permit: Highway Services Signs - Define Documents to Prepare														
PER003-1000	Permit: Highway Services Signs - Documents Preparation	5	04-Nov-13	08-Nov-13					□ Permit: Highway Services Signs - Documents Preparation														
PER003-1010	Permit: Highway Services Signs - Documents Approval by Cl	5	12-Nov-13	18-Nov-13					▬ Permit: Highway Services Signs - Documents Approval by Client														
PER003-1020	Permit: Highway Services Signs - Permit Application & Proce	5	19-Nov-13	25-Nov-13					▬ Permit: Highway Services Signs - Permit Application & Process														
PER003-1030	Permit: Highway Services Signs - Permit Issued	0		25-Nov-13					◆ Permit: Highway Services Signs - Permit Issued														
<b>PER.004 Asphalt Plant</b>					50	17-Jan-14	31-Mar-14																
PER004-9999	Permit: Asphalt Plant - Define Documents to Prepare	5	17-Jan-14	23-Jan-14					□ Permit: Asphalt Plant - Define Documents to Prepare														
PER004-1000	Permit: Asphalt Plant - Documents Preparation	15	31-Jan-14	20-Feb-14					▬ Permit: Asphalt Plant - Documents Preparation														
PER004-1010	Permit: Asphalt Plant - Documents Approval by Client	15	21-Feb-14	13-Mar-14					▬ Permit: Asphalt Plant - Documents Approval by Client														
PER004-1020	Permit: Asphalt Plant - Permit Application & Process	10	14-Mar-14	31-Mar-14					▬ Permit: Asphalt Plant - Permit Application & Process														
PER004-1030	Permit: Asphalt Plant - Permit Issued	0		31-Mar-14					◆ Permit: Asphalt Plant - Permit Issued														
<b>PER.005 Used Oil Storage Tank System</b>					45	25-Oct-13	10-Jan-14																
PER005-9999	Permit: Used Oil Storage Tank - Define Documents to Prepar	5	25-Oct-13	31-Oct-13					□ Permit: Used Oil Storage Tank - Define Documents to Prepare														
PER005-1000	Permit: Used Oil Storage Tank - Documents Preparation	10	08-Nov-13	22-Nov-13					▬ Permit: Used Oil Storage Tank - Documents Preparation														
PER005-1010	Permit: Used Oil Storage Tank - Documents Approval by Clie	15	25-Nov-13	13-Dec-13					▬ Permit: Used Oil Storage Tank - Documents Approval by Client														
PER005-1020	Permit: Used Oil Storage Tank - Permit Application & Process	10	16-Dec-13	10-Jan-14					▬ Permit: Used Oil Storage Tank - Permit Application & Process														
PER005-1030	Permit: Used Oil Storage Tank - Permit Issued	0		10-Jan-14					◆ Permit: Used Oil Storage Tank - Permit Issued														
<b>PER.006 Food Establishment License</b>					45	02-Dec-13	14-Feb-14																
PER006-9999	Permit: Food Establishment License - Define Documents to c	5	02-Dec-13	06-Dec-13					□ Permit: Food Establishment License - Define Documents to Prepare														
PER006-1000	Permit: Food Establishment License - Documents Preparati	10	16-Dec-13	10-Jan-14					▬ Permit: Food Establishment License - Documents Preparation														
PER006-1010	Permit: Food Establishment License - Documents Approval	15	13-Jan-14	31-Jan-14					▬ Permit: Food Establishment License - Documents Approval by Client														
PER006-1020	Permit: Food Establishment License - Permit Application &	10	03-Feb-14	14-Feb-14					▬ Permit: Food Establishment License - Permit Application & Process														
PER006-1030	Permit: Food Establishment License - Permit Issued	0		14-Feb-14					◆ Permit: Food Establishment License - Permit Issued														
<b>PER.007 Septic Systems less than 4,546 L/d</b>					50	04-Nov-13	27-Jan-14																
PER007-9999	Permit: Septic Systems less than 4,546 L/day - Define Docu	5	04-Nov-13	08-Nov-13					□ Permit: Septic Systems less than 4,546 L/day - Define Documents to Prepare														
PER007-1000	Permit: Septic Systems less than 4,546 L/day - Documents I	15	19-Nov-13	09-Dec-13					▬ Permit: Septic Systems less than 4,546 L/day - Documents Preparation														
PER007-1010	Permit: Septic Systems less than 4,546 L/day - Documents /	15	10-Dec-13	13-Jan-14					▬ Permit: Septic Systems less than 4,546 L/day - Documents Approval by Client														
PER007-1020	Permit: Septic Systems less than 4,546 L/day - Permit Appli	10	14-Jan-14	27-Jan-14					▬ Permit: Septic Systems less than 4,546 L/day - Permit Application & Process														
PER007-1030	Permit: Septic Systems less than 4,546 L/day - Permit Issued	0		27-Jan-14					◆ Permit: Septic Systems less than 4,546 L/day - Permit Issued														

<span style="color:blue;">█</span> Actual Work <span style="color:red;">█</span> Critical Remaining Work <span style="color:green;">█</span> Remaining Work    ◆ Milestone	<b>EARLY WORKS DETAILED SCHEDULE</b> Page 2 of 11	Date	Revision	Checked	Approved
		17-Oct-13	Issued for Comments	PC/MB	

<b>Client: NALCOR energy</b>		<b>MUSKRAT FALLS HYDRO PROJECT</b>															
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Activity ID	Activity Name	Remaining Duration	Start	Finish	2014											
					Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
<b>PER.008 Flammable and Combustible Liquid Storage</b>																
PER008-9999	Permit: Flammable and Combustible Liquid Storage - Define	5	12-Nov-13	18-Nov-13	■ Permit: Flammable and Combustible Liquid Storage - Define Documents to Prepare											
PER008-1000	Permit: Flammable and Combustible Liquid Storage - Docum	10	26-Nov-13	09-Dec-13	■ Permit: Flammable and Combustible Liquid Storage - Documents Preparation											
PER008-1010	Permit: Flammable and Combustible Liquid Storage - Docun	15	10-Dec-13	13-Jan-14	■ Permit: Flammable and Combustible Liquid Storage - Documents Approval by Client											
PER008-1020	Permit: Flammable and Combustible Liquid Storage - Permit	10	14-Jan-14	27-Jan-14	■ Permit: Flammable and Combustible Liquid Storage - Permit Application & Process											
PER008-1030	Permit: Flammable and Combustible Liquid Storage - Permit	0		27-Jan-14	◆ Permit: Flammable and Combustible Liquid Storage - Permit Issued											
<b>PER.009 Disposal of Waste in Municipal Landfill</b>																
PER009-9999	Permit: Disposal of Waste in Municipal Landfill - Define Doc	5	15-Nov-13	21-Nov-13	■ Permit: Disposal of Waste in Municipal Landfill - Define Documents to Prepare											
PER009-1000	Permit: Disposal of Waste in Municipal Landfill - Documents	10	29-Nov-13	12-Dec-13	■ Permit: Disposal of Waste in Municipal Landfill - Documents Preparation											
PER009-1010	Permit: Disposal of Waste in Municipal Landfill - Documents	15	13-Dec-13	16-Jan-14	■ Permit: Disposal of Waste in Municipal Landfill - Documents Approval by Client											
PER009-1020	Permit: Disposal of Waste in Municipal Landfill - Permit Appl	10	17-Jan-14	30-Jan-14	■ Permit: Disposal of Waste in Municipal Landfill - Permit Application & Process											
PER009-1030	Permit: Disposal of Waste in Municipal Landfill - Permit Issued	0		30-Jan-14	◆ Permit: Disposal of Waste in Municipal Landfill - Permit Issued											
<b>PER.010 Transport of Dangerous Goods</b>																
PER010-9999	Permit: Transport of Dangerous Goods - Define Documents	5	20-Nov-13	26-Nov-13	■ Permit: Transport of Dangerous Goods - Define Documents to Prepare											
PER010-1000	Permit: Transport of Dangerous Goods - Documents Prepara	10	04-Dec-13	17-Dec-13	■ Permit: Transport of Dangerous Goods - Documents Preparation											
PER010-1010	Permit: Transport of Dangerous Goods - Documents Approva	15	18-Dec-13	21-Jan-14	■ Permit: Transport of Dangerous Goods - Documents Approval by Client											
PER010-1020	Permit: Transport of Dangerous Goods - Permit Application &	10	22-Jan-14	04-Feb-14	■ Permit: Transport of Dangerous Goods - Permit Application & Process											
PER010-1030	Permit: Transport of Dangerous Goods - Permit Issued	0		04-Feb-14	◆ Permit: Transport of Dangerous Goods - Permit Issued											
<b>PER.012 Batch Plants and Crushing Erection</b>																
PER012-9999	Permit: Construction of Batch Plant - Define Documents to I	5	15-Oct-13	21-Oct-13	■ Permit: Construction of Batch Plant - Define Documents to Prepare											
PER012-1000	Permit: Construction of Batch Plant - Documents Preparation	5	21-Oct-13	25-Oct-13	■ Permit: Construction of Batch Plant - Documents Preparation											
PER012-1010	Permit: Construction of Batch Plant - Documents Approval b	3	28-Oct-13	30-Oct-13	■ Permit: Construction of Batch Plant - Documents Approval by Client											
PER012-1020	Permit: Construction of Batch Plant - Permit Application & F	10	31-Oct-13	14-Nov-13	■ Permit: Construction of Batch Plant - Permit Application & Process											
PER012-1030	Permit: Construction of Batch Plant - Permit Issued	0		14-Nov-13	◆ Permit: Construction of Batch Plant - Permit Issued											
<b>PER.013 Spillway Cover Installation</b>																
PER013-1000	Permit: Spillway Cover - Define Documents to Prepare	3	21-Oct-13	23-Oct-13	■ Permit: Spillway Cover - Define Documents to Prepare											
PER013-1010	Permit: Spillway Cover - Documents Preparation	5	22-Oct-13	28-Oct-13	■ Permit: Spillway Cover - Documents Preparation											
PER013-1020	Permit: Spillway Cover - Documents Approval by Client	3	29-Oct-13	31-Oct-13	■ Permit: Spillway Cover - Documents Approval by Client											
PER013-1030	Permit: Spillway Cover - Permit Application & Process	10	01-Nov-13	15-Nov-13	■ Permit: Spillway Cover - Permit Application & Process											
PER013-1040	Permit: Spillway Cover - Permit Issued	0		15-Nov-13	◆ Permit: Spillway Cover - Permit Issued											
<b>PER.014 ICS Erection</b>																
PER014-1000	Permit: ICS Erection - Define Documents to Prepare	3	25-Nov-13	27-Nov-13	■ Permit: ICS Erection - Define Documents to Prepare											
PER014-1010	Permit: ICS Erection - Documents Preparation	10	28-Nov-13	11-Dec-13	■ Permit: ICS Erection - Documents Preparation											
PER014-1020	Permit: ICS Erection - Documents Approval by Client	15	12-Dec-13	15-Jan-14	■ Permit: ICS Erection - Documents Approval by Client											
PER014-1030	Permit: ICS Erection - Permit Application & Process	10	16-Jan-14	29-Jan-14	■ Permit: ICS Erection - Permit Application & Process											
PER014-1040	Permit: ICS Erection - Permit Issued	0		29-Jan-14	◆ Permit: ICS Erection - Permit Issued											
<b>General</b>		<b>194</b>	<b>24-Sep-13</b>	<b>17-Jul-14</b>												

 Actual Work	 Critical Remaining Work
 Remaining Work	◆ Milestone

<b>EARLY WORKS DETAILED SCHEDULE</b>	
Page 3 of 11	

Date	Revision	Checked	Approved
17-Oct-13	Issued for Comments	PC/MB	

<b>Client: NALCOR energy</b>		<b>MUSKRAT FALLS HYDRO PROJECT</b>															
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Activity ID	Activity Name	Remaining Duration	Start	Finish	2014											
					Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
<b>EWP035 Site Offices Cleaning</b>																
EWP035-1000	Site Office Cleaning - Scope Definition & Negotiations & Award	15	07-Jan-14	27-Jan-14	■ Site Office Cleaning - Scope Definition & Negotiations & Award											
EWP035-1010	Site Office Cleaning - Ready to Start Work	0		27-Jan-14	◆ Site Office Cleaning - Ready to Start Work											
<b>EWP007 Mobile Equipment (Boom trucks, trucks, dozers etc.)</b>																
EWP007-1000	Mobile Equipment - Final negotiations & various contracts Award	54	24-Sep-13	26-Dec-13	■ Mobile Equipment - Final negotiations & various contracts Award											
EWP007-1010	Mobile Equipment - Delivery to site	50	21-Nov-13	12-Feb-14	■ Mobile Equipment - Delivery to site											
EWP007-1020	Mobile Equipment - Inspection and acceptance	50	05-Dec-13	26-Feb-14	■ Mobile Equipment - Inspection and acceptance											
EWP007-1030	Mobile Equipment - 1st Equipment ready to operate	0		11-Dec-13	◆ Mobile Equipment - 1st Equipment ready to operate											
EWP007-1040	Mobile Equipment - Last Equipment ready to operate	0		26-Feb-14	◆ Mobile Equipment - Last Equipment ready to operate											
<b>EWP008 Handling Equipment</b>																
EWP008-1000	Handling Equipment - Final negotiations & Various contracts Award	50	09-Oct-13	19-Dec-13	■ Handling Equipment - Final negotiations & Various contracts Award											
EWP008-1010	Handling Equipment - Delivery to site	50	22-Nov-13	13-Feb-14	■ Handling Equipment - Delivery to site											
EWP008-1020	Handling Equipment - Inspection and acceptance prior to access site	50	06-Dec-13	27-Feb-14	■ Handling Equipment - Inspection and acceptance prior to access site											
EWP008-1030	Handling Equipment - 1st Equipment ready to operate	0		12-Dec-13	◆ Handling Equipment - 1st Equipment ready to operate											
EWP008-1040	Handling Equipment - Last Equipment ready to operate	0		27-Feb-14	◆ Handling Equipment - Last Equipment ready to operate											
<b>EWP009 Light Vehicles</b>																
EWP009-1000	Light Vehicles - Final negotiations & Award	15	02-Oct-13	23-Oct-13	■ Light Vehicles - Final negotiations & Award											
EWP009-1010	Light Vehicles - Delivery to site	4	24-Oct-13	29-Oct-13	■ Light Vehicles - Delivery to site											
EWP009-1020	Light Vehicles - Inspection and acceptance prior to access site	1	30-Oct-13	30-Oct-13	■ Light Vehicles - Inspection and acceptance prior to access site											
EWP009-1030	Light Vehicles - Equipment ready to operate	0		30-Oct-13	◆ Light Vehicles - Equipment ready to operate											
<b>EWP011 Environmental Consultant</b>																
EWP011-1000	Environmental Consultant - Scope Definition & Negotiations & Award	16	17-Oct-13	07-Nov-13	■ Environmental Consultant - Scope Definition & Negotiations & Award											
EWP011-1010	Environmental Consultant - Mobilization and Organization	5	08-Nov-13	15-Nov-13	■ Environmental Consultant - Mobilization and Organization											
EWP011-1030	Environmental Consultant - Start work	0		15-Nov-13	◆ Environmental Consultant - Start work											
<b>EWP013 Health and Safety Consultant</b>																
EWP013-1000	Health & Safety Consultant - Scope Definition & Negotiations & Award	16	17-Oct-13	07-Nov-13	■ Health & Safety Consultant - Scope Definition & Negotiations & Award											
EWP013-1010	Health & Safety Consultant - Mobilization and Organization	5	08-Nov-13	15-Nov-13	■ Health & Safety Consultant - Mobilization and Organization											
EWP013-1020	Health & Safety Consultant - Start work	0		15-Nov-13	◆ Health & Safety Consultant - Start work											
<b>EWP049 Quality Control consultant</b>																
EWP049-1000	Quality Control Consultant - Scope Definition & Negotiations & Award	15	21-Oct-13	08-Nov-13	■ Quality Control Consultant - Scope Definition & Negotiations & Award											
EWP049-1010	Quality Control Consultant - Mobilization and Organization	5	12-Nov-13	18-Nov-13	■ Quality Control Consultant - Mobilization and Organization											
EWP049-1020	Quality Control Consultant - Start work	0		18-Nov-13	◆ Quality Control Consultant - Start work											
<b>EWP047 Engineering consultant</b>																
EWP047-1000	Engineering Consultant - Scope Definition & Negotiations & Award	10	25-Oct-13	07-Nov-13	■ Engineering Consultant - Scope Definition & Negotiations & Award											
EWP047-1010	Engineering Consultant - Mobilization and Organization	5	08-Nov-13	15-Nov-13	■ Engineering Consultant - Mobilization and Organization											
EWP047-1020	Engineering Consultant - Start work	0		15-Nov-13	◆ Engineering Consultant - Start work											
<b>EWP015 Final clean-up &amp; Scaling</b>																
		18	04-Oct-13	30-Oct-13												

■ Actual Work	■ Critical Remaining Work	<b>EARLY WORKS DETAILED SCHEDULE</b>			Date	Revision	Checked	Approved
■ Remaining Work	◆ Milestone	Page 4 of 11			17-Oct-13	Issued for Comments	PC/MB	

<b>Client: NALCOR energy</b>		<b>MUSKRAT FALLS HYDRO PROJECT</b>															
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Activity ID	Activity Name	Remaining Duration	Start	Finish	2014													
					Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
EWP015-1000	Final Clean-up - Scope Definition & Negotiations & Award	15	04-Oct-13	25-Oct-13		█												
EWP015-1010	Final Clean-up - Mobilization and Organization	3	28-Oct-13	30-Oct-13			█											
EWP015-1020	Final Clean-up - Start work	0		30-Oct-13														
<b>EWP017 On Site Laboratory</b>																		
EWP017-1000	On Site Laboratory - Scope Definition & Negotiations & Award	15	20-Nov-13	10-Dec-13														
EWP017-1010	On Site Laboratory - Mobilization and Organization	10	11-Dec-13	07-Jan-14														
EWP017-1020	On Site Laboratory - Start work	0		07-Jan-14														
<b>EWP021 Formworks (Standard)</b>																		
EWP021-1000	Formworks (Standard) - Scope Definition & Negotiations & A	15	15-Oct-13	04-Nov-13														
EWP021-1010	Formworks (Standard) - Design/Drawings by supplier	30	07-Nov-13	19-Dec-13														
EWP021-1020	Formworks (Standard) - Design/Drawings approval	20	06-Dec-13	16-Jan-14														
EWP021-1050	Formworks (Standard) - Fabrication	90	10-Jan-14	21-May-14														
EWP021-1070	Formworks (Standard) - 1st Partial Delivery to Site	15	21-Feb-14	13-Mar-14														
EWP021-1090	Formworks (Standard) - 2nd Partial Delivery to Site	15	24-Mar-14	14-Apr-14														
EWP021-1080	Formworks (Standard) - Complete Delivery to Site	15	22-May-14	11-Jun-14														
<b>EWP023 Special Formwork (Draft tubes, Intake, etc.)</b>																		
EWP023-1000	Special Formworks - Scope Definition, Design & dwgs	20	15-Oct-13	12-Nov-13														
EWP023-1080	Special Formworks - Tender, Negotiations & Award	15	13-Nov-13	03-Dec-13														
EWP023-1010	Special Formworks - Design/Drawings by supplier	40	04-Dec-13	11-Feb-14														
EWP023-1020	Special Formworks - Design/Drawings approval	30	15-Jan-14	25-Feb-14														
EWP023-1030	Special Formworks - Fabrication	100	29-Jan-14	23-Jun-14														
EWP023-1040	Special Formworks - Delivery Bay 1	15	11-Apr-14	02-May-14														
EWP023-1050	Special Formworks - Delivery Bay 2	15	12-May-14	02-Jun-14														
EWP023-1060	Special Formworks - Delivery Bay 3	15	10-Jun-14	02-Jul-14														
EWP023-1070	Special Formworks - Delivery Bay 4	15	25-Jun-14	17-Jul-14														
<b>EWP025 Reinforcement (Supply and Fabrication)</b>																		
EWP025-1000	Reinforcement (Supply & Fab) - Scope Definition & Negotiations & Award	10	01-Nov-13	15-Nov-13														
EWP025-1010	Reinforcement (Supply & Fab) - Procure Reinforcement material	15	20-Nov-13	10-Dec-13														
EWP025-1020	Reinforcement (Supply & Fab) - Fabrication (Cut & Bend)	15	11-Dec-13	14-Jan-14														
EWP025-1030	Reinforcement (Supply & Fab) - First Delivery to site	5	15-Jan-14	21-Jan-14														
<b>EWP027 Water Stops (Supply only)</b>																		
EWP027-1000	Water Stops - Scope Definition & Negotiations & Award	10	04-Nov-13	18-Nov-13														
EWP027-1010	Water Stops - Procure material	25	19-Nov-13	06-Jan-14														
EWP027-1030	Water Stops - First Delivery to site	10	07-Jan-14	20-Jan-14														
<b>EWP029 Embedded Piping</b>																		
EWP029-1000	Embedded Piping - Scope Definition & Negotiations & Award	10	07-Nov-13	21-Nov-13														
EWP029-1010	Embedded Piping - Procure material	25	22-Nov-13	09-Jan-14														

Actual Work	Critical Remaining Work
Remaining Work	Milestone

<b>EARLY WORKS DETAILED SCHEDULE</b>
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<b>Client: NALCOR energy</b>		<b>MUSKRAT FALLS HYDRO PROJECT</b>															
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Activity ID	Activity Name	Remaining Duration	Start	Finish	2014																
					Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov		
EWP029-1020	Embedded Piping - First Delivery to site	10	10-Jan-14	23-Jan-14						█											
<b>EWP031 Embedded Grounding material</b>		<b>35</b>	<b>01-Nov-13</b>	<b>20-Dec-13</b>																	
EWP031-1000	Embedded Grounding Material - Scope Definition & Negotiations & Award	10	01-Nov-13	15-Nov-13			█														
EWP031-1010	Embedded Grounding Material - Procure material for 1st needs	20	18-Nov-13	13-Dec-13			█														
EWP031-1020	Embedded Grounding Material - First Delivery to site	5	16-Dec-13	20-Dec-13				█													
<b>EWP033 Embedded Parts</b>		<b>35</b>	<b>04-Nov-13</b>	<b>06-Jan-14</b>																	
EWP033-1000	Embedded Parts - Scope Definition & Negotiations & Award	10	04-Nov-13	18-Nov-13			█														
EWP033-1010	Embedded Parts - Procure material for 1st needs	20	19-Nov-13	16-Dec-13			█														
EWP033-1020	Embedded Parts - First Delivery to site	5	17-Dec-13	06-Jan-14				█													
<b>EWP043 Fencing Supply &amp; Installation</b>		<b>50</b>	<b>15-Nov-13</b>	<b>06-Feb-14</b>																	
EWP043-1000	Fencing - Scope Definition & Negotiations & Award	10	15-Nov-13	28-Nov-13			█														
EWP043-1010	Fencing - Procure Material	20	29-Nov-13	09-Jan-14			█														
EWP043-1020	Fencing - Install Fence	20	10-Jan-14	06-Feb-14				█													
EWP043-1030	Fencing - Work Completed	0		06-Feb-14					◆												
<b>EWP051 Temporary Buildings (Supply &amp; Install)</b>		<b>126</b>	<b>09-Oct-13</b>	<b>23-Apr-14</b>																	
EWP051-1000	Temporary Buildings - Scope Definition & Drawings	20	09-Oct-13	06-Nov-13		█															
EWP051-1080	Temporary Buildings - Tender, Negotiations & Award	20	07-Nov-13	05-Dec-13		█															
EWP051-1070	Temporary Buildings - Contractor organization	5	06-Dec-13	12-Dec-13			█														
EWP051-1010	Temporary Buildings - Procure Buildings	50	13-Dec-13	06-Mar-14			█														
CON051-1020	Temporary Buildings - Buildings Erection	50	07-Feb-14	21-Apr-14				█													
CON051-1030	Temporary Buildings - 1st Municipality Inspection	1	07-Mar-14	07-Mar-14					█												
CON051-1040	Temporary Buildings - 1st Building Ready for Occupancy	0		07-Mar-14						◆											
CON051-1060	Temporary Buildings - Last Municipality Inspection	1	23-Apr-14	23-Apr-14							█										
CON051-1050	Temporary Buildings - Last Building Ready for Occupancy	0		23-Apr-14								◆									
<b>EWP053 Generators</b>		<b>45</b>	<b>12-Nov-13</b>	<b>27-Jan-14</b>																	
EWP053-1000	Generators - Scope Definition & Negotiations & Award	20	12-Nov-13	09-Dec-13			█														
EWP053-1010	Generators - Procure	30	26-Nov-13	20-Jan-14			█														
EWP053-1020	Generators - 1st Delivery	5	10-Dec-13	16-Dec-13				█													
EWP053-1030	Generators - Last Delivery	5	21-Jan-14	27-Jan-14					█												
<b>EWP055 Pumps</b>		<b>45</b>	<b>30-Oct-13</b>	<b>15-Jan-14</b>																	
EWP055-1000	Pumps - Scope Definition & Negotiations & Award	20	30-Oct-13	27-Nov-13		█															
EWP055-1010	Pumps - Procure	30	14-Nov-13	08-Jan-14		█															
EWP055-1020	Pumps - 1st Delivery	5	21-Nov-13	27-Nov-13			█														
EWP055-1030	Pumps - Last delivery	5	09-Jan-14	15-Jan-14					█												
<b>EWP057 Lighting Posts</b>		<b>32</b>	<b>04-Nov-13</b>	<b>18-Dec-13</b>																	
EWP057-1000	Lighting Posts - Scope Definition & Negotiations & Award	10	04-Nov-13	18-Nov-13		█															
EWP057-1010	Lighting Posts - Procure & Delivery 1st posts	20	21-Nov-13	18-Dec-13		█															

█ Actual Work      █ Critical Remaining Work  
█ Remaining Work      ◆ Milestone

**EARLY WORKS DETAILED SCHEDULE**

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Date	Revision	Checked	Approved
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<b>Client: NALCOR energy</b>		<b>MUSKRAT FALLS HYDRO PROJECT</b>															
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Activity ID	Activity Name	Remaining Duration	Start	Finish	2014											
					Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
<b>EWP059 Waste Mangement services (incl. hazardous mtl)</b>					<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>15 20-Nov-13 10-Dec-13</p> <p>EWP059-1000 Waste Management Services - Scope Definition &amp; Negotiatic</p> <p>EWP059-1010 Waste Management Services - Start work</p> </div> <div style="width: 60%;"> <p>Waste Management Services - Scope Definition &amp; Negotiations &amp; Award</p> <p>◆ Waste Management Services - Start work</p> </div> </div>											
<b>EWP061 Ground Heaters</b>					<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>25 01-Nov-13 06-Dec-13</p> <p>EWP061-1000 Ground Heaters - Scope Definition &amp; Negotiations &amp; Award</p> <p>EWP061-1010 Ground Heaters - Procure &amp; Delivery</p> </div> <div style="width: 60%;"> <p>Ground Heaters - Scope Definition &amp; Negotiations &amp; Award</p> <p>Ground Heaters - Procure &amp; Delivery</p> </div> </div>											
<b>EWP065 Site Survey</b>					<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>16 24-Sep-13 16-Oct-13</p> <p>EWP065-1000 Site Survey - Scope Definition &amp; Negotiations &amp; Award</p> <p>EWP065-1010 Site Survey - Mobilization and Organization</p> <p>EWP065-1020 Site Survey - Ready to Start work</p> </div> <div style="width: 60%;"> <p>Site Survey - Scope Definition &amp; Negotiations &amp; Award</p> <p>Site Survey - Mobilization and Organization</p> <p>◆ Site Survey - Ready to Start work</p> </div> </div>											
<b>EWP067 Maintenance of Temporary Roads</b>					<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>20 31-Oct-13 28-Nov-13</p> <p>EWP067-1000 Temporary Road Maintenance - Scope Definition &amp; Negotiatic</p> <p>EWP067-1010 Temporary Road Maintenance - Mobilization and Organizatio</p> <p>EWP067-1020 Temporary Road Maintenance - Ready to Start work</p> </div> <div style="width: 60%;"> <p>Temporary Road Maintenance - Scope Definition &amp; Negotiations &amp; Award</p> <p>Temporary Road Maintenance - Mobilization and Organization</p> <p>◆ Temporary Road Maintenance - Ready to Start work</p> </div> </div>											
<b>EWP069 Site Utilities Installation</b>					<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>34 31-Oct-13 18-Dec-13</p> <p>EWP069-1000 Site Utilities Installation - Design/Dwgs, Negotiations &amp; Award</p> <p>EWP069-1010 Site Utilities Installation - Procure Material</p> <p>EWP069-1020 Site Utilities Installation - Mobilization</p> </div> <div style="width: 60%;"> <p>Site Utilities Installation - Design/Dwgs, Negotiations &amp; Award</p> <p>Site Utilities Installation - Procure Material</p> <p>Site Utilities Installation - Mobilization</p> </div> </div>											
<b>Office in St. Johns</b>					<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>17 24-Sep-13 17-Oct-13</p> <p>EWP.GEN General</p> <p>GEN000-1090 Office In St. Johns - Find local and Agreement</p> <p>GEN000-1100 Office In St. Johns - Renovation and Install Furniture</p> <p>GEN000-1110 Office In St. Johns - Ready for occupancy</p> </div> <div style="width: 60%;"> <p>Office In St. Johns - Find local and Agreement</p> <p>Office In St. Johns - Renovation and Install Furniture</p> <p>◆ Office In St. Johns - Ready for occupancy</p> </div> </div>											
<b>Office in Goose Bay</b>					<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>23 01-Oct-13 01-Nov-13</p> <p>EWP.GEN General</p> <p>GEN000-1120 Office In Goose Bay - Find local and Agreement</p> <p>GEN000-1130 Office In Goose Bay - Install Furniture</p> <p>GEN000-1140 Office In Goose Bay - Ready for occupancy</p> </div> <div style="width: 60%;"> <p>Office In Goose Bay - Find local and Agreement</p> <p>Office In Goose Bay - Install Furniture</p> <p>◆ Office In Goose Bay - Ready for occupancy</p> </div> </div>											
<b>Health &amp; Safety Plan</b>					<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>20 24-Sep-13 22-Oct-13</p> <p>EWP.GEN General</p> <p>GEN000-1000 Early Works Health &amp; Safety Plan - Preparation</p> <p>GEN000-1010 Early Works Health &amp; Safety Plan - Approval by Client</p> <p>GEN000-1020 Early Works Health &amp; Safety Plan - Finalize Plan</p> </div> <div style="width: 60%;"> <p>Early Works Health &amp; Safety Plan - Preparation</p> <p>Early Works Health &amp; Safety Plan - Approval by Client</p> <p>Early Works Health &amp; Safety Plan - Finalize Plan</p> </div> </div>											
<b>Environmental Plan</b>					<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>21 24-Sep-13 23-Oct-13</p> <p>EWP.GEN General</p> <p>GEN000-1030 Early Works Environmental Plan - Preparation</p> <p>GEN000-1040 Early Works Environmental Plan - Approval by Client</p> </div> <div style="width: 60%;"> <p>Early Works Environmental Plan - Preparation</p> <p>Early Works Environmental Plan - Approval by Client</p> </div> </div>											

<span style="background-color: blue; width: 15px; height: 10px; display: inline-block;"></span> Actual Work	<span style="background-color: red; width: 15px; height: 10px; display: inline-block;"></span> Critical Remaining Work
<span style="background-color: lightgreen; width: 15px; height: 10px; display: inline-block;"></span> Remaining Work	◆ Milestone

<b>EARLY WORKS DETAILED SCHEDULE</b>
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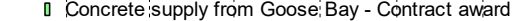
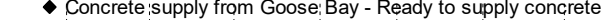





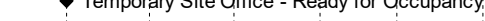










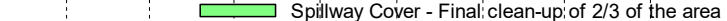
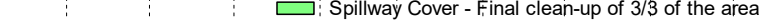


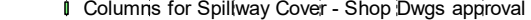
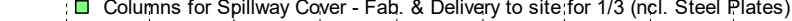
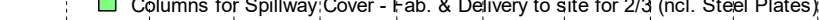
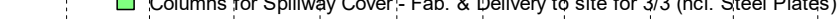

Date	Revision	Checked	Approved
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<b>Client: NALCOR energy</b>		<b>MUSKRAT FALLS HYDRO PROJECT</b>															
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Activity ID	Activity Name	Remaining Duration	Start	Finish	2014																	
					Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov			
GEN000-1050	Early Works Environmental Plan - Finalize Plan	3	21-Oct-13	23-Oct-13																		
<b>Quality Plan</b>		21	24-Sep-13	23-Oct-13																		
<b>EWP039 General</b>		21	24-Sep-13	23-Oct-13																		
GEN000-1060	Early Works Quality Plan - Preparation	16	24-Sep-13	16-Oct-13																		
GEN000-1070	Early Works Quality Plan - Approval by Client	2	17-Oct-13	18-Oct-13																		
GEN000-1080	Early Works Quality Plan - Finalize Plan	3	21-Oct-13	23-Oct-13																		
<b>Batching Plants &amp; Crushing / Screening</b>		44	21-Oct-13	20-Dec-13																		
<b>EWP039 Permanent Batching Plants &amp; Crushing &amp; Screening</b>		44	21-Oct-13	20-Dec-13																		
EWP039-1150	Existing Crushing & Screening Plant - Prepare New Platform	5	21-Oct-13	25-Oct-13																		
EWP039-1110	Permanent Crushing & Screening Plant - Relocate at new lo	5	28-Oct-13	01-Nov-13																		
EWP039-1120	Permanent Crushing & Screening Plant - Commission Plant	1	04-Nov-13	04-Nov-13																		
EWP039-1130	Permanent Crushing & Screening Plant - Plant Ready for Op	0		04-Nov-13																		
EWP039-1100	Existing Crushing & Screening Plant - Produce & Stockpile A	33	05-Nov-13	20-Dec-13																		
<b>Batching Plant 1</b>		76	02-Oct-13	31-Jan-14																		
<b>EWP039 Permanent Batching Plants &amp; Crushing &amp; Screening</b>		76	02-Oct-13	31-Jan-14																		
EWP039-1000	Batching Plant 1 - Scope Definition & Negotiations & Award	12	02-Oct-13	18-Oct-13																		
EWP039-1010	Batching Plant 1 - Dismantle existing Plant used for RCC wall	15	21-Oct-13	08-Nov-13																		
EWP039-1140	Batching Plant 1 - Foundations at new Location	15	15-Nov-13	05-Dec-13																		
EWP039-1020	Batching Plant 1 - Installation at New Location	25	09-Dec-13	24-Jan-14																		
EWP039-1040	Batching Plant 1 - Commissioning	5	27-Jan-14	31-Jan-14																		
EWP039-1060	Batching Plant 1 - Ready for Operation	0		31-Jan-14																		
<b>EWP069 Site Utilities Installation</b>		15	19-Dec-13	22-Jan-14																		
EWP069-1040	Permanent Batching Plants - Install Utilities at new Location	15	19-Dec-13	22-Jan-14																		
<b>Batching Plant 2</b>		95	20-Nov-13	17-Apr-14																		
<b>EWP039 Permanent Batching Plants &amp; Crushing &amp; Screening</b>		95	20-Nov-13	17-Apr-14																		
EWP039-1080	Batch Plant 2 - Procure	40	20-Nov-13	28-Jan-14																		
EWP039-1030	Batch Plant 2 - Installation	40	29-Jan-14	26-Mar-14																		
EWP039-1050	Batch Plant 2 - Commissioning	15	27-Mar-14	17-Apr-14																		
EWP039-1070	Batch Plant 2 - Ready for Operation	0		17-Apr-14																		
<b>Concrete testing</b>		175	09-Nov-13	02-May-14																		
<b>EWP039 Permanent Batching Plants &amp; Crushing &amp; Screening</b>		175	09-Nov-13	02-May-14																		
EWP039-1160	Concrete testing - Prepare 1st test with New Produced Aggre	91	09-Nov-13	07-Feb-14																		
EWP039-1170	Concrete testing - Concrete Tests with a similar plant	91	09-Nov-13	07-Feb-14																		
EWP039-1180	Concrete testing - Concrete Test with Astaldi Plant	91	01-Feb-14	02-May-14																		
EWP039-1190	Concrete testing - Concrete Test at 28 Days, Ready to place	0	03-Mar-14																			
<b>Concrete Supply</b>		12	09-Oct-13	25-Oct-13																		
<b>EWP006 Concrete Supply from Goose Bay</b>		12	09-Oct-13	25-Oct-13																		

Actual Work	Critical Remaining Work	<b>EARLY WORKS DETAILED SCHEDULE</b>		Date	Revision	Checked	Approved
Remaining Work	Milestone	Page 8 of 11		17-Oct-13	Issued for Comments	PC/MB	

<b>Client: NALCOR energy</b>		<b>MUSKRAT FALLS HYDRO PROJECT</b>															
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Activity ID	Activity Name	Remaining Duration	Start	Finish	2014											
					Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
EPW006-1000	Concrete supply from Goose Bay - Scope & Negotiations	10	09-Oct-13	23-Oct-13	 Concrete supply from Goose Bay - Scope & Negotiations											
EPW006-1010	Concrete supply from Goose Bay - Contract award	2	24-Oct-13	25-Oct-13	 Concrete supply from Goose Bay - Contract award											
EPW006-1020	Concrete supply from Goose Bay - Ready to supply concrete	0		25-Oct-13	 Concrete supply from Goose Bay - Ready to supply concrete											
<b>Contractor's Offices</b>		<b>114</b>	<b>01-Oct-13</b>	<b>26-Mar-14</b>												
<b>EWP071 Temporary Site Office</b>		<b>22</b>	<b>01-Oct-13</b>	<b>31-Oct-13</b>												
EWP071-1000	Temporary Site Office - Design & Dwgs / Scope of Work (All	10	01-Oct-13	15-Oct-13	 Temporary Site Office - Design & Dwgs / Scope of Work (All Disciplines)											
EWP071-1010	Temporary Site Office - Negotiations & Award for supply & In:	2	16-Oct-13	17-Oct-13	 Temporary Site Office - Negotiations & Award for supply & Install											
EWP071-1040	Temporary Site Office - Installation	3	23-Oct-13	25-Oct-13	 Temporary Site Office - Installation											
EWP071-1050	Temporary Site Office - Municipality Inspection	1	28-Oct-13	28-Oct-13	 Temporary Site Office - Municipality Inspection											
EWP071-1070	Temporary Site Office - Installation Complete	0		28-Oct-13	 Temporary Site Office - Installation Complete											
EWP071-1060	Temporary Site Office - Ready for Occupancy	0		31-Oct-13	 Temporary Site Office - Ready for Occupancy											
<b>EWP001 Supply of Main Contractor Office</b>		<b>80</b>	<b>04-Oct-13</b>	<b>10-Feb-14</b>												
ENG001-1000	Supply Main Contractor Office - Design & Dwgs / Scope of V	30	04-Oct-13	18-Nov-13	 Supply Main Contractor Office - Design & Dwgs / Scope of Work (All Disciplines)											
EWP001-1000	Supply Main Contractor Office - Negotiations & Award	10	19-Nov-13	02-Dec-13	 Supply Main Contractor Office - Negotiations & Award											
EWP001-1010	Supply Main Contractor Office - Fabrication and delivery	40	03-Dec-13	10-Feb-14	 Supply Main Contractor Office - Fabrication and delivery											
<b>EWP002 Installation of Main Contractor Office</b>		<b>66</b>	<b>10-Dec-13</b>	<b>26-Mar-14</b>												
CON002-1050	Installation Main Contractor Office - Mobilization	5	10-Dec-13	16-Dec-13	 Installation Main Contractor Office - Mobilization											
CON002-1010	Installation Main Contractor Office - Preparation of supports	10	17-Dec-13	13-Jan-14	 Installation Main Contractor Office - Preparation of supports											
CON002-1020	Installation Main Contractor Office - Installation	40	28-Jan-14	25-Mar-14	 Installation Main Contractor Office - Installation											
CON002-1030	Installation Main Contractor Office - Municipality Inspection	1	26-Mar-14	26-Mar-14	 Installation Main Contractor Office - Municipality Inspection											
CON002-1040	Installation Main Contractor Office - Installation complete	0		26-Mar-14	 Installation Main Contractor Office - Installation complete											
<b>EWP069 Site Utilities Installation</b>		<b>10</b>	<b>19-Dec-13</b>	<b>15-Jan-14</b>												
CON001-1000	Main Contractor Office - Utilities installation	10	19-Dec-13	15-Jan-14	 Main Contractor Office - Utilities installation											
<b>Spillway Cover System</b>		<b>84</b>	<b>04-Oct-13</b>	<b>14-Feb-14</b>												
<b>EWP015 Final clean-up &amp; Scaling</b>		<b>30</b>	<b>05-Dec-13</b>	<b>29-Jan-14</b>												
CON015-1000	Spillway Cover - Final clean-up of 1/3 of the area	10	05-Dec-13	18-Dec-13	 Spillway Cover - Final clean-up of 1/3 of the area											
CON015-1010	Spillway Cover - Final clean-up of 2/3 of the area	10	19-Dec-13	15-Jan-14	 Spillway Cover - Final clean-up of 2/3 of the area											
CON015-1012	Spillway Cover - Final clean-up of 3/3 of the area	10	16-Jan-14	29-Jan-14	 Spillway Cover - Final clean-up of 3/3 of the area											
<b>EWP022 Steel Columns for Spillway Cover</b>		<b>30</b>	<b>11-Oct-13</b>	<b>25-Nov-13</b>												
EWP022-1000	Columns for Spillway Cover - Scope Definition & Negotiations	10	11-Oct-13	25-Oct-13	 Columns for Spillway Cover - Scope Definition & Negotiations & Award											
EWP022-1010	Columns for Spillway Cover - Shop Drawings	3	28-Oct-13	30-Oct-13	 Columns for Spillway Cover - Shop Drawings											
EWP022-1020	Columns for Spillway Cover - Shop Dwgs approval	2	31-Oct-13	01-Nov-13	 Columns for Spillway Cover - Shop Dwgs approval											
EWP022-1030	Columns for Spillway Cover - Fab. & Delivery to site for 1/3 (r	5	04-Nov-13	08-Nov-13	 Columns for Spillway Cover - Fab. & Delivery to site for 1/3 (ncl. Steel Plates)											
EWP022-1040	Columns for Spillway Cover - Fab. & Delivery to site for 2/3 (r	5	12-Nov-13	18-Nov-13	 Columns for Spillway Cover - Fab. & Delivery to site for 2/3 (ncl. Steel Plates)											
EWP022-1050	Columns for Spillway Cover - Fab. & Delivery to site for 3/3 (r	5	19-Nov-13	25-Nov-13	 Columns for Spillway Cover - Fab. & Delivery to site for 3/3 (ncl. Steel Plates)											
<b>EWP020 Spillway Temporary Cover</b>		<b>84</b>	<b>04-Oct-13</b>	<b>14-Feb-14</b>												
EWP020-1000	Spillway Cover - Scope Definition & Negotiations & Award	10	04-Oct-13	18-Oct-13	 Spillway Cover - Scope Definition & Negotiations & Award											

 Actual Work	 Critical Remaining Work	<b>EARLY WORKS DETAILED SCHEDULE</b>		Date	Revision	Checked	Approved
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Activity ID	Activity Name	Remaining Duration	Start	Finish	2014												
					Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
EWP020-1060	Spillway Cover - Survey Area & Spillway Cover base plates	4	24-Oct-13	29-Oct-13			█										
EWP020-1010	Spillway Cover - Design of cover system	5	25-Oct-13	31-Oct-13			█										
EWP020-1070	Spillway Cover - Preparation for Base Plates Installation	15	30-Oct-13	20-Nov-13													
EWP020-1020	Spillway Cover - Design/Drawings approval	2	01-Nov-13	04-Nov-13			█										
EWP020-1030	Spillway Cover - Fab. & Delivery to site	12	05-Nov-13	21-Nov-13			█										
CON020-1040	Spillway Cover - Installation Cover for 1/3 of the area (Incl. C	13	18-Nov-13	01-Dec-13													
CON020-1050	Spillway Cover - Installation Cover for 2/3 of the area (Incl. C	10	26-Nov-13	09-Dec-13													
CON020-1070	Spillway Cover - Installation Cover for 3/3 of the area (Incl. C	10	04-Dec-13	17-Dec-13													
EWP020-1080	Spillway Cover - Heating of Spillway Cover ready for concrete	15	18-Dec-13	01-Jan-14													
CON020-1080	Spillway - Overbreak Concrete Placement for 1/3 of the area	10	06-Jan-14	17-Jan-14													
CON020-1090	Spillway - Overbreak Concrete Placement for 2/3 of the area	10	20-Jan-14	31-Jan-14													
CON020-1100	Spillway - Overbreak Concrete Placement for 3/3 of the area	10	03-Feb-14	14-Feb-14													
<b>Power House Integrated Cover System (ICS)</b>		<b>208</b>	<b>24-Sep-13</b>	<b>18-Aug-14</b>													
<b>EWP015 Final clean-up &amp; Scaling</b>		<b>70</b>	<b>13-Jan-14</b>	<b>23-Apr-14</b>													
CON015-2000	Integrated Cover System - Final Clean-up for SSB	15	13-Jan-14	31-Jan-14													
CON015-2010	Integrated Cover System - Foundations for SSB	10	03-Feb-14	14-Feb-14													
CON015-2020	Integrated Cover System - Final Clean-up for Bay 1	15	03-Feb-14	21-Feb-14													
CON015-2040	Integrated Cover System - Final Clean-up for Bay 2	15	17-Feb-14	07-Mar-14													
CON015-2030	Integrated Cover System - Foundations for Bay 1	8	24-Feb-14	05-Mar-14													
CON015-2060	Integrated Cover System - Final Clean-up for Bay 3	15	03-Mar-14	24-Mar-14													
CON015-2050	Integrated Cover System - Foundations for Bay 2	8	10-Mar-14	20-Mar-14													
CON015-2080	Integrated Cover System - Final Clean-up for Bay 4 & NSB	15	17-Mar-14	08-Apr-14													
CON015-2070	Integrated Cover System - Foundations for Bay 3	8	25-Mar-14	04-Apr-14													
CON015-2090	Integrated Cover System - Foundations for Bay 4 & NSB	10	09-Apr-14	23-Apr-14													
<b>EWP019 Integrated Cover System (ICS) - supply and install</b>		<b>208</b>	<b>24-Sep-13</b>	<b>18-Aug-14</b>													
EWP019-1000	Integrated Cover System Design - Contract awarded	0		24-Sep-13													
EWP019-1190	Integrated Cover System - Survey Data supplied to Astaldi by	4	04-Oct-13	09-Oct-13													
EWP019-1010	Integrated Cover System Design - Finalize design	22	07-Oct-13	06-Nov-13													
EWP019-1020	Integrated Cover System Design - Design/Drawings approval	15	07-Nov-13	28-Nov-13													
EWP019-1030	Integrated Cover System Fab, Deliv & Install - Tender period	15	15-Nov-13	05-Dec-13													
EWP019-1040	Integrated Cover System Fab, Deliv & Install - Evaluate and /	10	06-Dec-13	19-Dec-13													
EWP019-1110	Integrated Cover System - Organization and Shop drawings	40	20-Dec-13	27-Feb-14													
EWP019-1120	Integrated Cover System - Shop Drawings approval	35	17-Jan-14	06-Mar-14													
EWP019-1050	Integrated Cover System - Fabrication	90	24-Jan-14	04-Jun-14													
EWP019-1060	Integrated Cover System - Delivery for SSB	10	24-Mar-14	07-Apr-14													
EWP019-1070	Integrated Cover System - Delivery for Bay 1	10	08-Apr-14	21-Apr-14													
CON019-1130	Integrated Cover System - Erect ICS for SSB	30	08-Apr-14	21-May-14													

<p>█ Actual Work      █ Critical Remaining Work</p> <p>█ Remaining Work    ◆ Milestone</p>	<p><b>EARLY WORKS DETAILED SCHEDULE</b></p> <p>Page 10 of 11</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> <tr> <td>17-Oct-13</td> <td>Issued for Comments</td> <td>PC/MB</td> <td></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	Date	Revision	Checked	Approved	17-Oct-13	Issued for Comments	PC/MB					
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<b>Client: NALCOR energy</b>	<b>MUSKRAT FALLS HYDRO PROJECT</b>	
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Activity ID	Activity Name	Remaining Duration	Start	Finish	2014														
					Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
EWP019-1080	Integrated Cover System - Delivery for Bay 2	10	23-Apr-14	06-May-14										█	Integrated Cover System - Delivery for Bay 2				
CON019-1140	Integrated Cover System - Erect ICS for Bay 1	40	23-Apr-14	18-Jun-14										█	Integrated Cover System - Erect ICS for Bay 1				
EWP019-1090	Integrated Cover System - Delivery for Bay 3	10	07-May-14	21-May-14										█	Integrated Cover System - Delivery for Bay 3				
CON019-1150	Integrated Cover System - Erect ICS for Bay 2	40	07-May-14	04-Jul-14										█	Integrated Cover System - Erect ICS for Bay 2				
CON019-1160	Integrated Cover System - Erect ICS for Bay 3	40	22-May-14	21-Jul-14										█	Integrated Cover System - Erect ICS for Bay 3				
CON019-1180	Integrated Cover System - Erect Overhead cranes	40	29-May-14	28-Jul-14										█	Integrated Cover System - Erect Overhead cranes				
EWP019-1100	Integrated Cover System - Delivery for Bay 4 & NSB	10	05-Jun-14	18-Jun-14										█	Integrated Cover System - Delivery for Bay 4 & NSB				
CON019-1170	Integrated Cover System - Erect ICS for Bay 4 & NSB	40	19-Jun-14	18-Aug-14										█	Integrated Cover System - Erect ICS for Bay 4 & NSB				

	Actual Work		Critical Remaining Work
	Remaining Work		Milestone

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