



TRIM #: DOC-11430
 Date Rec'd: December 9, 2010
 File #:

REPORT

Canada-Newfoundland & Labrador Offshore
 Petroleum Board

REPORT TITLE

**Husky Energy East Coast Operations
 Newfoundland & Labrador Offshore Area
 Environmental Assessment Review for 2010**

SUBMITTED TO

**Ms. E. Young
 Canada-Newfoundland and Labrador Offshore Petroleum Board
 5th Floor, TD Place
 140 Water Street
 St. John's, NL A1C 6H6**

SUBMITTED BY

**Husky Energy
 235 Water Street, Suite 901
 St. John's, NL
 A1C 1B6**

Additional Comments

Signature:

Date:

Name

Title

DG Taylor

for

**DG Taylor
 DG Taylor Inc.**

Prepared By

Steve Bettles

30 Nov 2010

**Steve Bettles
 Environment Lead**

Reviewed By

SueAnn Thistle

Dec 8, 2010

**SueAnn Thistle,
 HSEQ Manager**

Approved By Department Manager

Date:	November 2010	HDMS No.:	004099775	Report No.:	WR-HSE-RP-1886	Version No.:	01
-------	----------------------	-----------	------------------	-------------	-----------------------	--------------	-----------

CONFIDENTIALITY NOTE:

All rights reserved.
 No part of this document may be reproduced or transmitted in any form or by any means without the written permission of Husky Energy.

Table of Contents

1.0	Introduction	4
2.0	Husky Energy – Jeanne d’Arc Basin 2006 3D Seismic Environmental Assessment Review (CEAR No. 05-01-8783).....	5
2.1	Project Description and Scope	5
2.1.1	Activities Covered	5
2.1.2	Geographic Scope.....	6
2.1.3	Temporal Scope.....	7
2.1.4	2010 Activities.....	7
2.2	Environmental Aspects	7
2.2.1	Fisheries	7
2.2.2	Species at Risk	8
2.2.3	Mitigations.....	8
3.0	Husky White Rose Development Project: New Drill Centre Construction and Operations Program Environmental Assessment (CEAR No. 06-01-7410).....	9
3.1	Project Description and Scope	9
3.1.1	Activities Covered	9
3.1.2	Geographic Scope.....	9
3.1.3	Temporal Scope.....	11
3.1.4	2010 Activities.....	11
3.2	Environmental Aspects	11
3.2.1	Fisheries	11
3.2.2	Species at Risk	12
3.2.3	Mitigations.....	12
4.0	Husky Delineation/Exploration Drilling Program for Jeanne d’Arc Basin Area, 2008-2017 (CEAR No. 07-01-28877)	13
4.1	Project Description and Scope	13
4.1.1	Activities Covered	13
4.1.2	Geographic Scope.....	13
4.1.3	Temporal Scope.....	13
4.1.4	2010 Activities.....	13
4.1.5	Fisheries	15
4.1.6	Species at Risk	15
4.1.7	Mitigations.....	16
5.0	Concluding Statement.....	16
6.0	References	17

6.1 Original Husky Environmental Assessments17
6.2 Recent & Relevant Environmental Assessments by Others Reviewed17
6.3 Relevant Species at Risk Recovery Strategies Reviewed.....18
7.0 Appendices19

List of Figures

Figure 2-1 - Geographic Scope of Project Area for CEAR No. 05-01-87836
Figure 3-1 - Geographic Scope of Project Area for CEAR No. 06-01-741010
Figure 4-1 - Geographic Scope of Project Area CEAR No. 07-01-2887714

List of Tables

Table 1 - Environmental Assessment Approvals in Force for Husky Energy as of January 20104

1.0 Introduction

Offshore oil and gas exploration and production programs generally encompass long periods of time and multiple, successive, operational steps. As a consequence of this, environmental assessments of these programs address a variety of activities undertaken over a number of years.

This document is the third of the annual reviews of the status and ongoing validity of the environmental assessments currently in place for Husky Energy's activities in the Newfoundland and Labrador Offshore Area. These reviews are to assist the C-NLOPB in fulfilling its responsibilities under the *Canadian Environmental Assessment Act* by ensuring that the scope of the assessment(s) and the mitigations committed to therein remain technically valid.

The following lists Husky Energy's environmental assessments that have been approved by the C-NLOPB under which Husky may be conducting offshore operations in 2010.

Table 1 - Environmental Assessment Approvals in Force for Husky Energy as of January 2010

Screening Determination Reference ¹	EA Report Title	Husky Document Number
CEAR No. 05-01-8783²	Husky Energy – Jeanne d'Arc Basin 2006 3D Seismic Environmental Assessment Update	EC-HSE-RP-0029
CEAR No. 06-01-7410	Husky White Rose Development Project: New Drill Centre Construction and Operations Program Environmental Assessment & Addendum	WR-HSE-RP-4003 & WR-HSE-RP-0167
	Husky White Rose Development Project: New Drill Centre Construction and Operations Program Environmental Assessment Amendment: Construction of Protective Flowline Rock Berms	WR-HSE-RP-1087
CEAR No. 07-01-28877	Husky Delineation/Exploration Drilling Program for Jeanne d'Arc Basin Area, 2008-2017	ED-HSE-RP-0016

The following sections organized by specific, individual environmental assessments provide the necessary information to confirm the ongoing validity of the assessment in question or note any changes that need to be addressed.

¹ Follow the links to C-NLOPB public registry to view the environmental assessments, amendments and regulatory determinations.

² This Screening Determination is scheduled to expire as of 31 December 2010

2.0 Husky Energy – Jeanne d’Arc Basin 2006 3D Seismic Environmental Assessment Review (CEAR No. 05-01-8783)

2.1 Project Description and Scope

2.1.1 Activities Covered

This assessment encompasses the conduct of 2D and 3D seismic surveys in the Jeanne d’Arc Basin area. Typically up to two 5085 in³ air gun arrays operating at 2000 psi could be employed firing alternately with sound source characteristics of 106.4 bar-m (i.e., ~255 dB re 1µPa (0 p)). The assessment also considers the need for a picket vessel(s) to accompany the survey vessel.

Geophysical site surveys (i.e., geo-hazard surveys) using smaller sound sources and other necessary survey equipment needed to conduct a site survey for a drilling location. For this type of survey typically four or more sleeve airguns of approximately 160 in³ in total volume operating at 2000 psi are used. The maximum output from this array has a peak to peak value of 17.0 Bar-metres equating to 244.6 dB (peak to peak)//1µPa@1m, or 238 dB (zero to peak)//1µPa@1m.

2.1.2 Geographic Scope

The geographic scope of the assessment encompasses sufficient area to conduct seismic surveys over Husky’s land interests in the Jeanne d’Arc Basin area and allow for survey line turn around for the seismic vessel (Figure 2–1). The corner coordinates of the Project Area are 46° 15' to 47° 50' North and 47° 15' to 49° 15' West.



Figure 2–1 - Geographic Scope of Project Area for CEAR No. 05-01-8783

2.1.3 Temporal Scope

This assessment was prepared to cover the years 2006 through 2010. Within any one year, large area surveys were anticipated to occur from May through mid-November. However, geo-hazard surveys were scoped to occur year round to support drilling operations as needed in response to identification of drilling targets within the geographic and temporal scope of the assessment.

2.1.4 2010 Activities

Husky Energy did not conduct 2D or 3D seismic surveys or geohazard surveys over the area depicted in Figure 2-1 in 2010.

2.2 Environmental Aspects

2.2.1 Fisheries

Fishing activities in the study area have not changed significantly since the environmental assessment report cited in Table 1 was accepted and the program approved.

Recent environmental assessments by other offshore operators that overlap the geographic and temporal scope of Husky's seismic EA (see Sections 2.1.2 and 2.1.3), reflect the same patterning for fishing activity on the Grand Banks as derived from Fisheries and Oceans databases including research vessel and under-utilized species information. While the general patterning of fishing is generally the same, the following paragraphs note some issues and developments of relevance to the interaction between the oil and gas and fishing industries within the scope of this environmental assessment.

Consultations specific to this update were undertaken in June 2010 with Fish Food and Allied Workers (FFAW) Union and One Ocean to discuss 2010 activities. As a result a follow-up discussion was held with Ocean Choice International with respect to specific comments received on American Plaice. The following paragraphs summarize the key points arising from both consultations.

A directed fishery for American plaice has not existed for some time however consultation with the fishing industry indicates that a directed fishery for this species may be permitted as early as 2011. If that happens previous fishing patterns for that species may be re-established in areas near the Jeanne d'Arc basin. Future updates will need to take this into account.

In general consultation with the fishing industry indicates that it is important to recognize that harvesters fish a resource, and not fixed points from year to year. Licenses are issued for large areas (e.g. NAFO subdivisions 3K or 3L) and fishing activity could take place anywhere within these areas and not just at the pattern of locations fished in recent years indicated by Fisheries and Oceans data. For example, in 2009, snow crab harvesters explored many new areas as the resource seemed to have moved further inshore. In 2010, harvesters are also reporting fishing in shallower depths for crab. This kind of change requires that the operator should continue to consult with the fishing industry on a regular basis to keep up to date with trends in fishing from year to year.

Since the approval of the aforementioned environmental assessment the fishing and oil and gas industries, through One Ocean, have completed two initiatives to help enhance communication and collaboration between the two industries. The first is a communication protocol that has been distributed to fishers and members of the petroleum industry. The protocol recommends communication procedures between fish harvesters and offshore installations and petroleum-related vessels during operational activities. The second is a risk-based decision matrix that defines the conditions under which oil and gas operators could employ either or both a Fisheries Liaison Officer or a guide vessel in support of certain oil and gas operations that have a potential to affect fisheries activities offshore.

2.2.2 Species at Risk

An updated listing of SARA and COSEWIC listed species for the Grand Banks area of relevance to this assessment is provided in Appendix 1. SARA listed species with final recovery strategies in place are noted. None of the SARA listed species relevant to the scope of this assessment have an associated critical habitat description or an action plan in place. Appendix 1 also provides a listing of COSEWIC candidate species under consideration for completeness.

Since the last EA update was completed, no new species were added to the SARA Schedule 1 listing.

None of the recovery plans for SARA listed species in place materially change the mitigation measures currently committed to by Husky Energy for the scope of the operations addressed by the environmental assessment.

2.2.3 Mitigations

Husky regards the environmental predictions and consequent mitigations cited in the environmental assessment and subsequent significance determination that relates to [CEAR No. 05-01-8783](#) as still valid and re-commits to implementing these mitigation measures for the activities to be carried out under the scope of this assessment this year.

3.0 Husky White Rose Development Project: New Drill Centre Construction and Operations Program Environmental Assessment (CEAR No. 06-01-7410)

3.1 Project Description and Scope

3.1.1 Activities Covered

This project involves the construction of up to five (5) glory holes during a construction phase that will continue through 2011.

Construction will also include installation of drilling templates and other subsea equipment in the glory holes to support eventual production operations.

The five glory holes will support up to 28 new wells. In addition, subsea flow lines will also be installed to connect new glory holes with existing ones that connect to the SeaRose FPSO.

Husky Energy proposes to drill up to five new drill centres in three areas adjacent to the three drill centres currently active in the White Rose Field. All proposed activities will occur within the defined project areas, North, West and South White Rose Extension Drill Centres and the North Amethyst Drill Centre. The South White Rose Extension (SWRX) and North Amethyst each require new drill centres and a maximum of 16 wells each. The West White Rose Extension (WWRX) could potentially support up to two new drill centres and a maximum of 18 wells. The North White Rose Extension (NWRX) would support one new drill centre and a maximum of 4 wells. There are a total of 54 wells proposed for the five drill centres.

3.1.2 Geographic Scope

The geographic scope of the assessment is portrayed in the inset map in Figure 3-1.

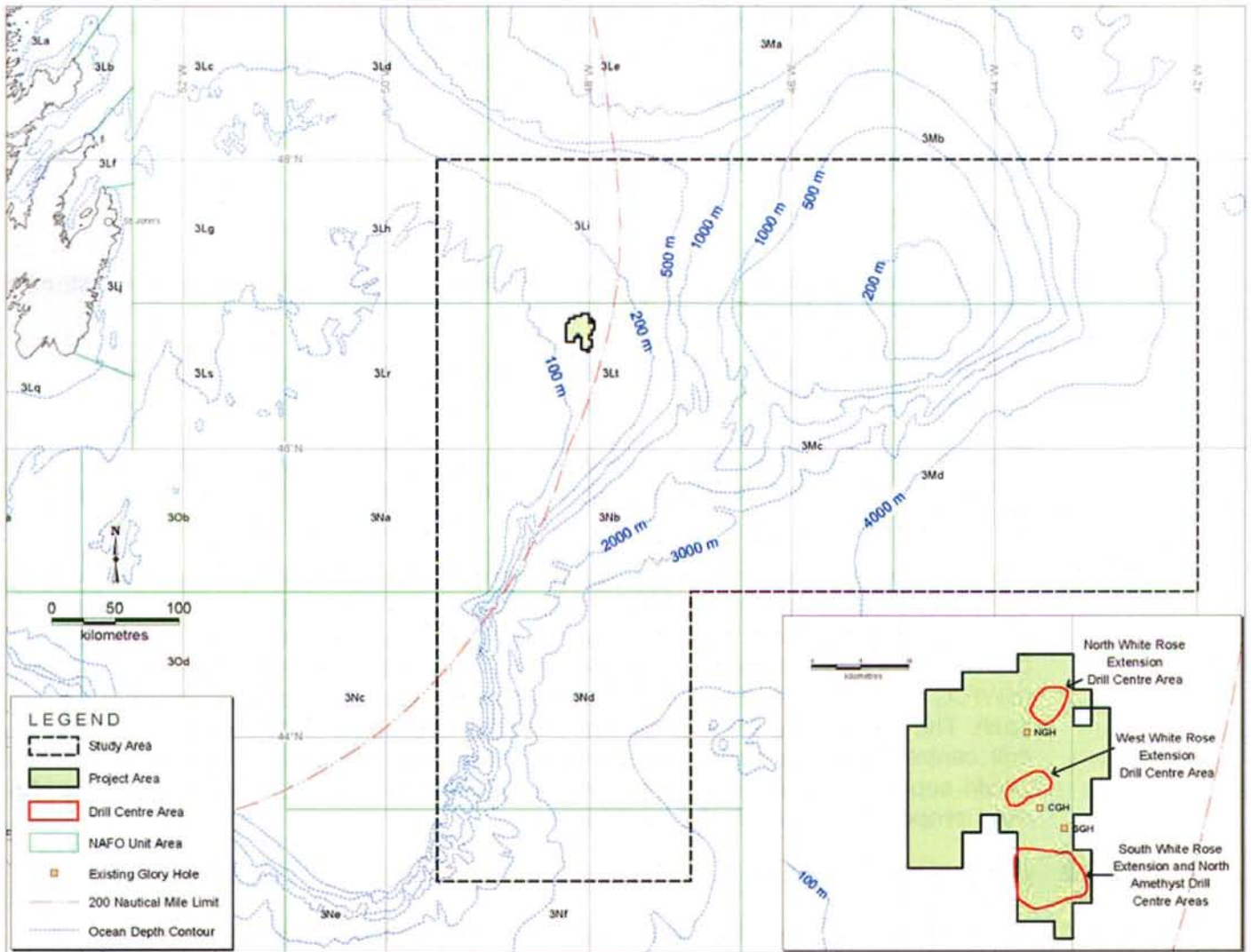


Figure 3-1 - Geographic Scope of Project Area for CEAR No. 06-01-7410

3.1.3 Temporal Scope

The temporal scope of construction activities is from 2007 to 2011, inclusive. Annually, glory hole dredging activities are scheduled for May through mid-September each year. Drilling and other construction activities are scoped for year-round operations however placement of subsea equipment to support drilling and production operations and installation of flow lines in glory holes will most likely occur during the summer and fall weather windows.

3.1.4 2010 Activities

No new glory hole excavation or flow line construction occurred in 2010.

To date, development drilling activities carried out under the scope of this environmental assessment have involved drilling at the North Amethyst Drill Center. A development well was drilled by the Henry Goodrich at the Central Drill Centre. The GSF Grand Banks will continue drilling a water injection well at the North Amethyst Drill Centre and possibly begin one more water injection well at that location before the end of 2010. Two additional development wells have been completed at the North Amethyst Drill Centre in 2010. Oil production from the North Amethyst Drill Center began on May 31, 2010.

3.2 Environmental Aspects

3.2.1 Fisheries

Fishing activities in the study area have not changed significantly since the environmental assessment report cited in Table 1 was accepted and the program approved.

Recent environmental assessments by other offshore operators that overlap the geographic and temporal scope of Husky's Drill Centre EA (see Sections 3.1.2 and 3.1.3) reflect the same patterning for fishing activity on the Grand Banks as derived from Fisheries and Oceans databases including research vessel and underutilized species information. While the general patterning of fishing is generally the same the following paragraphs note some issues and developments of relevant to the interaction between the oil and gas and fishing industry within the scope of this environmental assessment.

Consultations specific to this update were undertaken in June 2010 with Fish Food and Allied Workers Union and One Ocean to discuss 2010 activities. As a result a follow-up discussion was held with Ocean Choice International with respect to specific comments received on American Plaice. The following paragraphs summarize the key points arising from both consultations.

A directed fishery for American plaice has not existed for some time however consultation with the fishing industry indicates that a directed fishery for this species may be permitted as early as 2011. If that happens previous fishing patterns for that species may be re-established in areas near the Jeanne d'Arc basin. Future updates will need to take this into account.

In general consultation with the fishing industry indicates that it is important to recognize that harvesters fish a resource, and not fixed points from year to year. Licenses are

issued for large areas (e.g. NAFO subdivisions 3K or 3L) and fishing activity could take place anywhere within these areas and not just at the pattern of locations fished in recent years indicated by Fisheries and Oceans data. For example, in 2009, snow crab harvesters explored many new areas as the resource seemed to have moved further inshore. In 2010, harvesters are also reporting fishing in shallower depths for crab. This kind of change requires that the operator should continue to consult with the fishing industry on a regular basis to keep up to date with trends in fishing from year to year.

Since the approval of the aforementioned environmental assessment the fishing and oil and gas industries, through One Ocean, have completed two initiatives to help enhance communication and collaboration between the two industries. The first is a communication protocol that has been distributed to fishers and members of the petroleum industry. The protocol recommends communication procedures between fish harvesters and offshore installations and petroleum-related vessels during operational activities. The second is a risk-based decision matrix that defines the conditions under which oil and gas operators could employ either or both a Fisheries Liaison Officer or a guide vessel in support of certain oil and gas operations that have a potential to affect fisheries activities offshore.

3.2.2 Species at Risk

An updated listing of SARA and COSEWIC listed species for the Grand Banks area of relevance to this assessment is provided in Appendix 1. SARA listed species with final recovery strategies in place are noted. None of the SARA listed species relevant to the scope of this assessment have an associated critical habitat description or an action plan in place. Appendix 1 also provides a listing of COSEWIC candidate species under consideration for completeness.

Since the last EA update was completed, no new species were added to the SARA Schedule 1 listing.

None of the recovery plans for SARA listed species in place materially change the mitigation measures currently committed to by Husky for the scope of the operations addressed by the environmental assessment.

3.2.3 Mitigations

Husky regards the environmental predictions and consequent mitigations cited in the environmental assessment and subsequent significance determination that relates to [CEAR No. 06-01-7410](#) as still valid and re-commits to implementing these mitigation measures for the activities to be carried out under the scope of this assessment this year.

4.0 Husky Delineation/Exploration Drilling Program for Jeanne d'Arc Basin Area, 2008-2017 (CEAR No. 07-01-28877)

4.1 Project Description and Scope

4.1.1 Activities Covered

This environmental assessment addressed the potential for drilling 18 delineation and/or exploration wells from semi-submersible or jack-up mobile drilling units or drill ships. It also assessed the effects of geo-hazard surveys and vertical seismic profiles (VSPs) associated with the drilling program.

Husky Energy proposes to drill up to 18 exploration/delineation wells on any current or future Husky land holdings in the Jeanne d'Arc Basin area during 2008 to 2017.

4.1.2 Geographic Scope

The geographic scope of the drilling program is depicted in Figure 4-1. The project area is depicted by the red rectangle. The coordinates of the project area are as follows: 48° North and 49.5° West, 48° North and 47° West, 46° North and 49.5° West; and, 46° North and 47° West.

4.1.3 Temporal Scope

Exploration and delineation drilling activities as outlined above will be carried out year round from 2008 through 2017.

4.1.4 2010 Activities

There was one exploratory well on EL 1090R (Glenwood) and one on PL 1008 (North Amethyst in 2010.

Walk-away vertical seismic profile surveys were conducted at North Amethyst and at the Glenwood well H-69 in 2010.

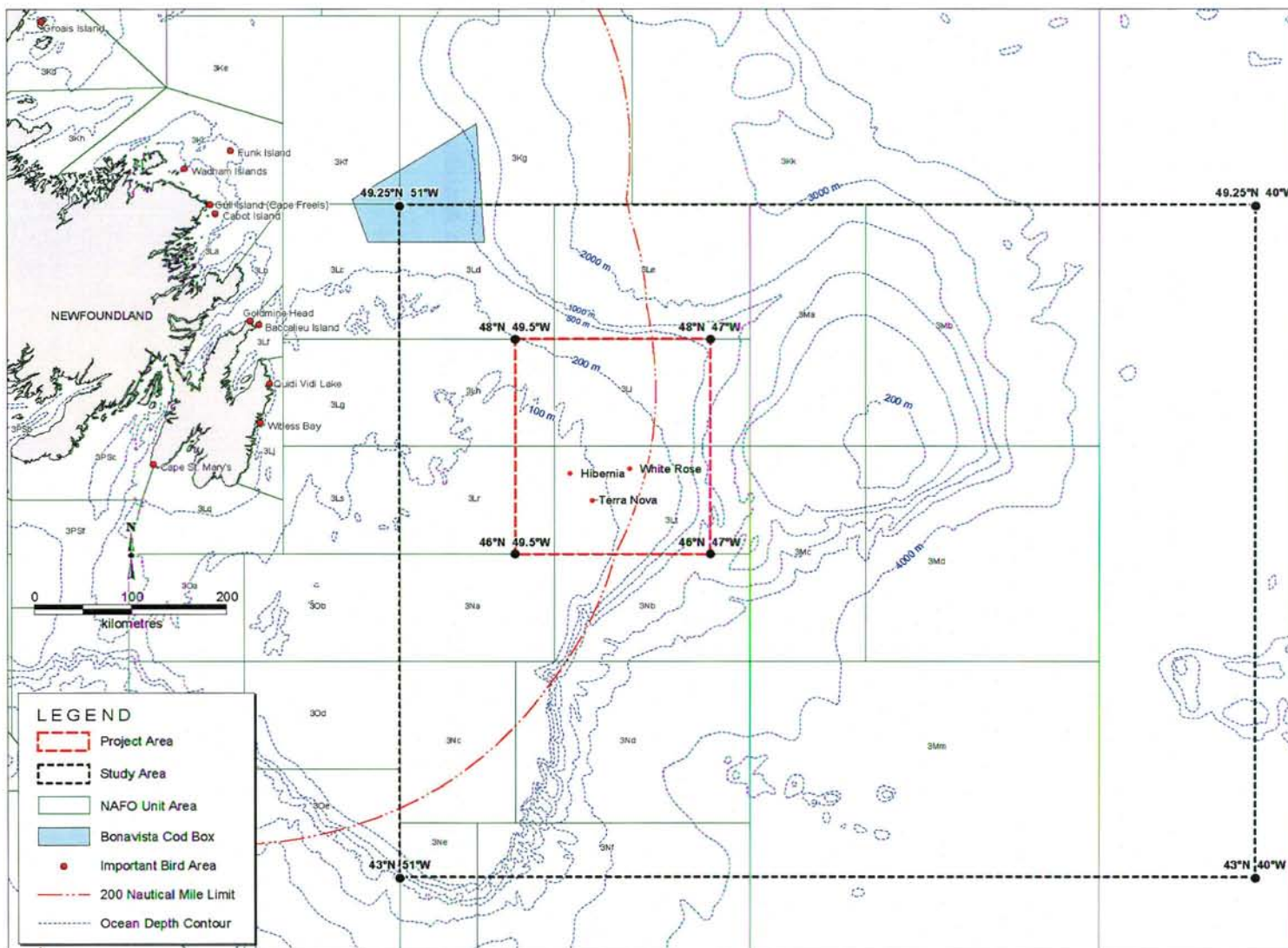


Figure 4-1 - Geographic Scope of Project Area CEAR No. 07-01-28877

4.1.5 Fisheries

Fishing activities in the study area have not changed significantly since the environmental assessment report cited in Table 1 was accepted and the program approved.

Recent environmental assessments by other offshore operators that overlap the geographic and temporal scope of Husky's drilling EA (see Sections 4.1.2 and 4.1.3) reflect the same patterning for fishing activity on the Grand Banks as derived from Fisheries and Oceans databases including research vessel and underutilized species information. While the general patterning of fishing is generally the same the following paragraphs note some issues and developments of relevant to the interaction between the oil and gas and fishing industry within the scope of this environmental assessment.

Consultations specific to this update were undertaken in June 2010 with Fish Food and Allied Workers Union and One Ocean to discuss 2010 activities. As a result a follow-up discussion was held with Ocean Choice International with respect to specific comments received on American Plaice. The following paragraphs summarize the key points arising from both consultations.

A directed fishery for American plaice has not existed for some time however consultation with the fishing industry indicates that a directed fishery for this species may be permitted as early as 2011. If that happens previous fishing patterns for that species may be re-established in areas near the Jeanne d'Arc basin. Future updates will need to take this into account.

In general consultation with the fishing industry indicates that it is important to recognize that harvesters fish a resource, and not fixed points from year to year. Licenses are issued for large areas (e.g. NAFO subdivisions 3K or 3L) and fishing activity could take place anywhere within these areas and not just at the pattern of locations fished in recent years indicated by Fisheries and Oceans data. For example, in 2009, snow crab harvesters explored many new areas as the resource seemed to have moved further inshore. In 2010, harvesters are also reporting fishing in shallower depths for crab. This kind of change requires that the operator should continue to consult with the fishing industry on a regular basis to keep up to date with trends in fishing from year to year.

Since the approval of the aforementioned environmental assessment the fishing and oil and gas industries, through One Ocean, have completed two initiatives to help enhance communication and collaboration between the two industries. The first is a communication protocol that has been distributed to fishers and members of the petroleum industry. The protocol recommends communication procedures between fish harvesters and offshore installations and petroleum-related vessels during operational activities. The second is a risk-based decision matrix that defines the conditions under which oil and gas operators should employ either or both a Fisheries Liaison Officer or a guide vessel in support of certain oil and gas operations that have a potential to affect fisheries activities offshore.

4.1.6 Species at Risk

An updated listing of SARA and COSEWIC listed species for the Grand Banks area of relevance to this assessment is provided in Appendix 1. SARA listed species with final

recovery strategies in place are noted. None of the SARA listed species relevant to the scope of this assessment have an associated critical habitat description or an action plan in place. Appendix 1 also provides a listing of COSEWIC candidate species under consideration for completeness.

Since the last EA update was completed, no new species were added to the SARA Schedule 1 listing.

None of the recovery plans for SARA listed species in place materially change the mitigation measures currently committed by Husky for the scope of the operations addressed by the environmental assessment.

4.1.7 Mitigations

Husky regards the environmental predictions and consequent mitigations cited in the environmental assessment and subsequent significance determination that relates to [CEAR No. 07-01-28877](#) as still valid and re-commits to implementing these mitigation measures for the activities to be carried out under the scope of this assessment this year.

5.0 Concluding Statement

The activities Husky plans to carry out in 2010 have been reviewed and assessed to be within the scope of the environmental assessments referenced herein.

The environmental effects predicted in the currently valid assessments are still valid. Husky reaffirms its commitment to implement the mitigation measures proposed in these assessments and in the Screening Decisions made by the C-NLOPB.

6.0 References

6.1 Original Husky Environmental Assessments

1. LGL Limited. 2005c. Northern Jeanne d'Arc Basin Seismic Program Environmental Assessment. LGL Rep. SA836. Rep. by LGL Limited, St. John's, NL for Husky Energy Inc., Calgary, AB. 241 p.
2. LGL Limited. 2006c. Husky White Rose Development Project: New Drill Centre Construction & Operations Program Environmental Assessment. LGL Rep. SA883. Rep. by LGL Limited, St. John's, NL, for Husky Energy Inc., Calgary, AB. 299 p. + App.
3. LGL Limited. 2007. Husky White Rose Development Project: New Drill Centre Construction & Operations Program Environmental Assessment Addendum. LGL Rep. SA883a. Rep. by LGL Limited, St. John's, NL, for Husky Energy Inc., Calgary, AB. 126 p. + App.
4. LGL Limited. 2007. Husky Delineation/Exploration Drilling Program for Jeanne d'Arc Basin Area, 2008-2017, Environmental Assessment. LGL Rep. SA935. Prepared by LGL, St. John's, NL, in association with Canning & Pitt Associates, Inc., Oceans Ltd., and PAL Environmental Services. Prepared for Husky Energy Inc., Calgary, AB. 231 p. + Appendices.

6.2 Recent & Relevant Environmental Assessments by Others Reviewed

1. LGL Limited. 2008. Environmental assessment of StatoilHydro's Jeanne d'Arc Basin area seismic and geohazard program, 2008-2016. LGL Rep. SA947a. Rep. by LGL Limited, Canning & Pitt Associates Inc., and Oceans Ltd., St. John's, NL, for StatoilHydro Canada Ltd., St. John's, NL. 174 p. + appendices.
2. LGL Limited. 2008. Environmental Assessment of StatoilHydro Canada Ltd. Exploration and Appraisal/Delineation Drilling Program for Offshore Newfoundland, 2008-2016. LGL Rep. SA947b. Rep. by LGL Limited, Canning & Pitt Associates Inc., and Oceans Ltd., St. John's, NL, for StatoilHydro Canada Ltd., St. John's, NL. 292 p. + appendices.
3. Christian, John R. 2008. Environmental Assessment of Petro-Canada Jeanne d'Arc Basin Exploration Drilling Program, 2009-2017. LGL Rep. SA993. Prepared by LGL, St. John's, NL prepared for Petro-Canada, St. John's, NL 258 p. + Appendix.
4. Christian, John R. 2009. Environmental Assessment of Petro-Canada Jeanne d'Arc Basin Exploration Drilling Program, 2009-2017 Addendum. LGL Rep. SA993. Prepared by LGL, St. John's, NL prepared for Petro-Canada, St. John's, NL 22 p.
5. LGL Limited. 2009. Orphan Basin exploration drilling program environmental assessment: Validation 2010. LGL Rep. SA1012. Rep. by LGL Limited, St. John's, NL, for Chevron Canada Resources., Calgary, AB. 63 p. + appendix.
6. Stantec. 2010. Hebron Project Comprehensive Study Report. Prepared by Stantec Ltd. on behalf of ExxonMobil Canada Properties

6.3 Relevant Species at Risk Recovery Strategies Reviewed

1. Atlantic Leatherback Turtle Recovery Team 2006. Recovery Strategy for Leatherback Turtle (*Dermochelys coriacea*) in Atlantic Canada. Species at Risk Act Recovery Strategy Series. Fisheries and Oceans Canada, Ottawa, vi + 45 pp.
2. Kulka, D., C. Hood and J. Huntington. 2007. Recovery Strategy for Northern Wolffish (*Anarhichas denticulatus*) and Spotted Wolffish (*Anarhichas minor*), and Management Plan for Atlantic Wolffish (*Anarhichas lupus*) in Canada. Fisheries and Oceans Canada: Newfoundland and Labrador Region. St. John's, NL. x + 103 pp.
3. DFO (Fisheries and Oceans Canada). 2008. *Recovery Strategy for the Atlantic walrus (Odobenus rosmarus rosmarus), Northwest Atlantic population, in Canada. Species at Risk Act Recovery Strategy Series.* Fisheries and Oceans Canada, Ottawa, ON. x + 11 pp.
4. Beauchamp, J., Bouchard, H., de Margerie, P., Otis, N., Savaria, J.-Y., 2009. Recovery Strategy for the blue whale (*Balaenoptera musculus*), Northwest Atlantic population, in Canada [FINAL]. Species at Risk Act Recovery Strategy Series. Fisheries and Oceans Canada, Ottawa. 62 pp.

7.0 Appendix

Appendix 1 - Current Listing of [SARA](#) and [COSEWIC](#) Listed Species in the Husky Project Areas

Appendix 1 - Current Listing of SARA and COSEWIC Listed Species in the Husky Project Areas³

Species		Original EAs ⁴			SARA Schedule 1			COSEWIC			
		Exploration	Seismic	Drill Centres	Endangered	Threatened	Special Concern	Endangered	Threatened	Special Concern	Candidate
Common Name	Scientific Name										
Birds											
Ivory Gull	<i>Pagophila eburnea</i>				X			X			
Manx Shearwater	<i>Puffinus puffinus</i>										Under review ⁵
Marine Fish											
Northern wolffish	<i>Anarhichas denticulatus</i>					X			X		
Spotted wolffish	<i>Anarhichas minor</i>					X			X		
Atlantic wolffish	<i>Anarhichas lupus</i>						X			X	
Atlantic cod (Newfoundland & Labrador population)	<i>Gadus morhua</i>							X			
Porbeagle shark	<i>Lamna nasus</i>							X			
White shark	<i>Carcharodon carcharias</i>							X			
Roundnose Grenadier	<i>Coryphaenoides rupestris</i>							X			
Cusk	<i>Brosme brosme</i>								X		
American Shad	<i>Alosa sapidissima</i>										Mid-priority
Alewife	<i>Alosa pseudoharengus</i>										Mid-priority
Capelin	<i>Mallotus villosus</i>										Mid-priority
Haddock	<i>Melanogrammus aeglefinus</i>										Mid-priority
Shortfin mako shark	<i>Isurus oxyrinchus</i>								X		
Blue shark	<i>Prionace glauca</i>									X	
American Eel	<i>Anguilla rostrata</i>									X	
Roughhead grenadier	<i>Macrourus bergla</i>									X	
Bluefin Tuna	<i>Thunnus thynnus</i>										Under review ⁶
Spiny eel	<i>Notacanthus chemnitzii</i>										Mid-priority

³ Green Shade means a final Recovery Strategy is in place but no critical habitat has been identified nor have actions plans been finalized for these species. Note that two other species that have recovery strategies, the Atlantic Walrus and Grey Whale, have been extirpated from Eastern Canadian waters and therefore are not listed in the above table.

⁴ X indicates new species added to either SARA or COSEWIC lists since the original environmental assessments were approved and/or last update

⁵ Species Status report in preparation or under review; not on current public lists but SARA secretariat confirms under review status

⁶ Species Status report in preparation or under review; not on current public lists but SARA secretariat confirms under review status

Species		Original EAs ⁴			SARA Schedule 1			COSEWIC			
		Exploration	Seismic	Drill Centres							
Common Name	Scientific Name				Endangered	Threatened	Special Concern	Endangered	Threatened	Special Concern	Candidate
Pollock	<i>Pollachius virens</i>										Mid-priority
Spinytail Skate	<i>Bathyraja spinicauda</i>										Mid-priority
Atlantic salmon (South Newfoundland Population)	<i>Salmo salar</i>	X	X	X					X		
Ocean pout	<i>Zoarces americanus</i>										High priority
Acadian Redfish (Atlantic population)	<i>Sebastes fasciatus</i>	X	X	X					X		
Deepwater Redfish (Northern population)	<i>Sebastes mentella</i>	X	X	X					X		
American Plaice (Newfoundland & Labrador Population)	<i>Hippoglossoides platessoides</i>								X		
Marine Mammals ⁷											
Blue whale	<i>Balaenoptera musculus</i>				X			X			
North Atlantic right whale	<i>Eubalaena glacialis</i>				X			X			
Fin whale (Atlantic population)	<i>Balaenoptera physalus</i>						X			X	
Killer Whale (NW Atlantic & Eastern Arctic Populations)	<i>Orcinus orca</i>									X	
Sperm whale	<i>Physeter macrocephalus</i>										Low priority
Cuvier's Beaked Whale	<i>Ziphius cavirostris</i>										Mid-priority
Sowerby's beaked whale	<i>Mesoplodon bidens</i>									X	
Harbour porpoise	<i>Phocoena phocoena</i>									X	
Hooded seal	<i>Cystophora cristata</i>										Low priority
Harp seal	<i>Phoca groenlandica</i>										Low priority
Reptiles											
Leatherback sea turtle	<i>Dermochelys coriacea</i>				X			X			
Loggerhead sea turtle	<i>Caretta caretta</i>	X	X	X				X			
Number of Species Added to SARA & COSEWIC Lists ⁸ since original EAs (or last update) and status		4	4	4	0	0	0	0	0	0	0

⁷ The Atlantic walrus (Northwest Atlantic population) is listed on Schedule 1 of SARA as extirpated however the Recovery Strategy for this species concludes that it's recovery neither technically or biologically feasible at this time (DFO 2008a).

⁸ Including COSEWIC "candidate species"