This report has been submitted: 2014-12-18 23:29:17

| Name of disease (or topic) for which you are a designated OIE Reference Laboratory: | Infection with Mikrocytos mackini |
| Address of laboratory: | 3190 Hammond Bay Road Nanaimo British Colombia V9T 6N7 CANADA |
| Tel.: | +1-250 756 70 34 |
| Fax: | +1-250 756 70 53 |
| E-mail address: | gary.meyer@dfo-mpo.gc.ca |
| Website: |  |
| Name (including Title) of Head of Laboratory (Responsible Official): | Mark Higgins Head of Aquatic Animal Health Section |
| Name (including Title and Position) of OIE Reference Expert: | Gary Meyer |
| Which of the following defines your laboratory? Check all that apply: | Governmental |
**ToR 1: To use, promote and disseminate diagnostic methods validated according to OIE Standards**

1. Did your laboratory perform diagnostic tests for the specified disease/topic for purposes such as disease diagnosis, screening of animals for export, surveillance, etc.? (Not for quality control, proficiency testing or staff training)  
Yes

<table>
<thead>
<tr>
<th>Diagnostic Test</th>
<th>Indicated in OIE Manual (Yes/No)</th>
<th>Total number of test performed last year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indirect diagnostic tests</td>
<td></td>
<td>Nationally Internationally</td>
</tr>
<tr>
<td>Direct diagnostic tests</td>
<td></td>
<td>Nationally Internationally</td>
</tr>
<tr>
<td>Histology</td>
<td></td>
<td>approx. 150</td>
</tr>
</tbody>
</table>

**ToR 2: To develop reference material in accordance with OIE requirements, and implement and promote the application of OIE Standards. To store and distribute to national laboratories biological reference products and any other reagents used in the diagnosis and control of the designated pathogens or disease.**

2. Did your laboratory produce or supply imported standard reference reagents officially recognised by the OIE?  
No

3. Did your laboratory supply standard reference reagents (non OIE-approved) and/or other diagnostic reagents to OIE Member Countries?  
Yes
<table>
<thead>
<tr>
<th>Type of reagent available</th>
<th>Related diagnostic test</th>
<th>Produced/ provide</th>
<th>Amount supplied nationally (ml, mg)</th>
<th>Amount supplied internationally (ml, mg)</th>
<th>No. of recipient OIE Member Countries</th>
<th>Region of recipients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Histological samples</td>
<td>Histology</td>
<td>Provide</td>
<td>0</td>
<td>5 slides, 3 paraffin embedded samples</td>
<td>3</td>
<td>Africa Americas Asia and Pacific Europe Middle East</td>
</tr>
<tr>
<td>DNA samples</td>
<td>PCR</td>
<td>Provide</td>
<td>0</td>
<td>5 vials</td>
<td>3</td>
<td>Africa Americas Asia and Pacific Europe Middle East</td>
</tr>
</tbody>
</table>

4. Did your laboratory produce vaccines?
No

5. Did your laboratory supply vaccines to OIE Member Countries?
No

**ToR 3: To develop, standardise and validate, according to OIE Standards, new procedures for diagnosis and control of the designated pathogens or diseases**

6. Did your laboratory develop new diagnostic methods validated according to OIE Standards for the designated pathogen or disease?
Yes

7. Did your laboratory develop new vaccines according to OIE Standards for the designated pathogen or disease?
No

<table>
<thead>
<tr>
<th>Name of the new test or diagnostic method or vaccine developed</th>
<th>Description and References (Publication, website, etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taqman qPCR assay (ITS-28S rDNA)</td>
<td>Paper titled: Molecular detection of Mikrocytos mackini in Pacific oysters using quantitative PCR is in the final stages of preparation and will be submitted for publication in early 2015.</td>
</tr>
</tbody>
</table>
**ToR 4: To provide diagnostic testing facilities, and, where appropriate, scientific and technical advice on disease control measures to OIE Member Countries**

8. Did your laboratory carry out diagnostic testing for other OIE Member Countries?

No

9. Did your laboratory provide expert advice in technical consultancies on the request of an OIE Member Country?

Yes

<table>
<thead>
<tr>
<th>Name of the OIE Member Country receiving a technical consultancy</th>
<th>Purpose</th>
<th>How the advice was provided</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRANCE</td>
<td>Assessment of risk factors associated with introduction and establishment of M. mackini</td>
<td>E-mail</td>
</tr>
<tr>
<td>UNITED STATES OF AMERICA</td>
<td>PCR protocols for detection of M. mackini</td>
<td>E-mail</td>
</tr>
</tbody>
</table>

**ToR 5: To carry out and/or coordinate scientific and technical studies in collaboration with other laboratories, centres or organisations**

10. Did your laboratory participate in international scientific studies in collaboration with OIE Member Countries other than the own?

No

**ToR 6: To collect, process, analyse, publish and disseminate epizootiological data relevant to the designated pathogens or diseases**

11. Did your Laboratory collect epizootiological data relevant to international disease control?

No

12. Did your laboratory disseminate epizootiological data that had been processed and analysed?

No

13. What method of dissemination of information is most often used by your laboratory? (Indicate in the appropriate box the number by category)

a) Articles published in peer-reviewed journals:  3


b) International conferences: 2
Geoff J. Lowe, Gary R. Meyer and Cathryn L. Abbott

C Caraguel1, N Toft, MP Polinski, G Meyer, CL Abbott. Screening oyster populations for the parasite Mikrocytos mackini with ‘eyes wide shut’. Australian and New Zealand College of Veterinary Scientists Meeting.

c) National conferences: 0

d) Other:
(Provide website address or link to appropriate information) 0

**ToR 7: To provide scientific and technical training for personnel from OIE Member Countries**
**To recommend the prescribed and alternative tests or vaccines as OIE Standards**

14. Did your laboratory provide scientific and technical training to laboratory personnel from other OIE Member Countries?

No

**ToR 8: To maintain a system of quality assurance, biosafety and biosecurity relevant for the pathogen and the disease concerned**

15. Does your laboratory have a Quality Management System certified according to an International Standard?

No

<table>
<thead>
<tr>
<th>Explain Quality Management System in adoption process or currently in place</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actively working toward ISO 17025 accreditation</td>
</tr>
</tbody>
</table>

16. Is your laboratory accredited by an international accreditation body?

No

17. Does your laboratory maintain a “biorisk management system” for the pathogen and the disease concerned?

Yes
ToR 9: To organise and participate in scientific meetings on behalf of the OIE

18. Did your laboratory organise scientific meetings on behalf of the OIE?
No

19. Did your laboratory participate in scientific meetings on behalf of the OIE?
No

ToR 10: To establish and maintain a network with other OIE Reference Laboratories designated for the same pathogen or disease and organise regular inter-laboratory proficiency testing to ensure comparability of results

20. Did your laboratory exchange information with other OIE Reference Laboratories designated for the same pathogen or disease?
Not applicable (Only OIE Reference Lab. designated for disease)

21. Was your laboratory involved in maintaining a network with OIE Reference Laboratories designated for the same pathogen or disease by organising or participating in proficiency tests?
Not applicable (Only OIE Reference Lab. designated for disease)

22. Did your laboratory collaborate with other OIE Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?
Not applicable (Only OIE Reference Lab. designated for disease)

ToR 11: To organise inter-laboratory proficiency testing with laboratories other than OIE Reference Laboratories for the same pathogens and diseases to ensure equivalence of results

23. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than OIE Reference Laboratories for the same disease?
Yes

Note: See Interlaboratory test comparisons in: Laboratory Proficiency Testing at: http://www.oie.int/en/our-scientific-expertise/reference-laboratories/proficiency-testing see point 1.3
<table>
<thead>
<tr>
<th>Purpose for inter-laboratory test comparisons</th>
<th>No. participating laboratories</th>
<th>Region(s) of participating OIE Member Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual routine proficiency testing for histological detection of M. mackini as part of Canada's National Aquatic Animal Health Program</td>
<td>2 (within Canada)</td>
<td>□ Africa □ Americas □ Asia and Pacific □ Europe □ Middle East</td>
</tr>
</tbody>
</table>

**ToR 12: To place expert consultants at the disposal of the OIE**

24. Did your laboratory place expert consultants at the disposal of the OIE?

No

25. Additional comments regarding your report: