

**Contract No. HY/2012/07
Tuen Mun - Chek Lap Kok Link -
Southern Connection Viaduct Section**

***Second Quarterly Post-Translocation Coral
Monitoring Report***

28 April 2014

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Contract No. HY/2012/07 Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section

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*Second Quarterly Post-Translocation Coral Monitoring
Report*

**Document Code: 0215660_2nd Quarterly Coral Translocation
Report_Southern_v1.pdf**

Client: Gammon		Project No: 0215660			
Summary: This document presents the Second Quarterly Post-Translocation Coral Monitoring Report for Tuen Mun – Chek Lap Kok Link Southern Connection Viaduct Section.		Date: 28 April 2014			
		Approved by: 			
		Mr Craig Reid Partner			
		Certified by: 			
		Mr Jovy Tam ET Leader			
V0	Second Post-Translocation Coral Monitoring Report	CL	JT	CAR	28/04/14
Revision	Description	By	Checked	Approved	Date
<p>This report has been prepared by Environmental Resources Management the trading name of 'ERM Hong-Kong, Limited', with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.</p> <p>We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.</p>		Distribution			
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Ref.: HYDZHMBEEM00_0_1945L.14

20 May 2014

AECOM
Supervising Officer Representative's Office
6 Hoi Kok Street,
Tsuen Wan, N.T.

By Fax (3691 2899) and By Post

Attention: Mr. Daniel Ip

Dear Sir,

**Re: Agreement No. CE 48/2011 (EP)
Environmental Project Office for the
HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities,
and Tuen Mun-Chek Lap Kok Link – Investigation**

**Contract No. HY/2012/07 TM-CLKL Southern Connection Viaduct Section
Second Quarterly Post-Translocation Coral Monitoring Report**

Reference is made to the submission of a Second Quarterly Post-Translocation Coral Monitoring Report certified by the ET Leader (ERM's reference: 0215660_2nd Quarterly Coral Translocation Report_Southern_v1.pdf dated on 28 April 2014) provided to us via email on 28 April 2014.

We are pleased to inform you that we have no adverse comments on the captioned report.

Thank you for your kind attention. Please do not hesitate to contact the undersigned or the ENPO Leader Mr. Y. H. Hui should you have any queries.

Yours sincerely,



F. C. Tsang
Independent Environmental Checker
Tuen Mun – Chek Lap Kok Link

c.c. HyD – Mr. Stephen Chan (By Fax: 3188 6614)
HyD – Mr. Matthew Fung (By Fax: 3188 6614)
AECOM – Mr. Conrad Ng (By Fax: 3922 9797)
ERM – Mr. Jovy Tam (By Fax: 2723 5660)
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1.1**BACKGROUND**

According to findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated increase in cross boundary traffic, developments in the NWNT, and possible developments in North Lantau, including the Airport developments, the Lantau Logistics Park (LLP) and the Hong Kong - Zhuhai - Macao Bridge (HZMB). In order to cope with the anticipated traffic demand, two new road sections between NWNT and North Lantau - Tuen Mun - Chek Lap Kok Link (TM-CLKL) and Tuen Mun Western Bypass (TMWB) are proposed.

An Environmental Impact Assessment (EIA) of TM-CLKL was prepared in accordance with the EIA Study Brief (No. ESB-175/2007) and the *Technical Memorandum of the Environmental Impact Assessment Process (EIAO-TM)*. The EIA Report was submitted under the Environmental Impact Assessment Ordinance (EIAO) in August 2009. Subsequent to the approval of the EIA Report (EIAO Register Number AEIAR-145/2009), an Environmental Permit (EP-354/2009) for TM-CLKL was granted by the Director of Environmental Protection (DEP) on 4 November 2009, and EP variation (EP-354/2009A) was issued on 8 December 2010. Another application for variation of environmental permit (VEP) (EP-354/2009/B) was granted on 28 January 2014.

Pursuant to Condition 2.6 of the EP, the Detailed Coral Translocation Methodology ⁽¹⁾ has been submitted on 9 October 2013 and was subsequently approved by the DEP for this Contract. Coral translocation was undertaken for the coral colonies at Tai Ho Wan on 24 October 2013 prior to the construction of temporary staging and the Southern Connection Viaduct Section in order to reduce the potential marine ecological impacts by translocating movable coral colonies to the receptor site at Yam Tsai Wan. In accordance with the Detailed Coral Translocation Methodology, the translocated coral colonies as well as the tagged natural coral colonies at the receptor site will be monitored once every three (3) months for a period of 12 months after the coral translocation exercise.

1.2**PURPOSE OF THIS REPORT**

The purpose of this *Second Quarterly Post-Translocation Coral Monitoring Report* is to report findings of the Second Quarterly Post-translocation Coral Monitoring which is undertaken at the receptor site, Yam Tsai, Wan, to

(1) ERM (October 2013) Detailed Coral Translocation Methodology. Prepared under Contract No. HY/2012/07 - TM-CLKL Southern Connection Viaduct Section

monitor the updated status of translocated corals from the donar site at Tai Ho Wan. The results of the post-translocation monitoring are reviewed with reference to findings of the pre-translocation survey in order to assess any observable changes in status of the translocated coral colonies. Post-translocation monitoring results are also evaluated against Action and Limit Levels which are based on recorded changes in percentage of partial mortality of the corals.

1.3 *STRUCTURE OF THIS REPORT*

The remainder of the report is structured as follows:

Section 2: Second Quarterly Post-Translocation - Details the methodology and results of the Second Quarterly Post-translocation Coral Monitoring.

Section 3: Schedule of Quarterly Post-translocation Coral Monitoring - Details the tentative schedule of the subsequent Quarterly Post-translocation Coral Monitoring.

Section 4: Conclusion - Concludes the Second Post-translocation Coral Monitoring results for the Contract.

2.1 POST-TRANSLOCATION MONITORING METHODOLOGY

Pre-translocation surveys were undertaken at the donor site of Tai Ho Wan and receptor site of Yam Tsai Wan to collect baseline data on translocated coral colonies from Tai Ho Wan and natural coral colonies at Yam Tsai Wan during the coral translocation exercise in October 2013. During the pre-translocation survey, thirteen (13) *Guaiagorgia* sp. colonies, which were successfully translocated from Tai Ho Wan to Yam Tsai Wan, were tagged for monitoring. In addition to the translocated coral colonies, ten (10) colonies of *Guaiagorgia* sp. were tagged at the receptor site. Each of the tagged coral colonies was identified at least to genus levels and photographed. The following data were recorded for each tagged coral colonies during the pre-translocation survey:

- Genus/ Species;
- Size (Maximum diameter/ height);
- Mortality (%);
- Bleaching (%); and,
- Sediment (%).

During the Post-translocation Coral Monitoring, the tagged coral colonies will be re-visited for monitoring using the same methodology as the pre-translocation survey. Photographic records of the translocated and natural coral colonies will be taken by maintaining the same aspect and orientation as photographs taken for the pre-translocation surveys as far as possible. The adoption of the same monitoring method would allow for direct comparison of baseline pre-location data with the post-translocation monitoring data in order to determine any changes in conditions of corals. The general environmental conditions including weather, sea and tidal conditions of the coral receptor site will also be monitored.

The results of the post-translocation monitoring will be reviewed with reference to findings of the pre-translocation surveys undertaken at the donor and receptor sites. If observations of any die-off / abnormal conditions of the translocated corals are made during the post-translocation monitoring, the ET should inform the Contractor, Independent Environmental Checker (IEC) / Environmental Project Office (ENPO), and AFCD, and liaise with AFCD to investigate any mitigation measures needed.

Post-translocation Coral Monitoring results will be evaluated against Action and Limit Levels which is based on the recorded changes in the percentage of partial mortality of the corals (*Table 2.1*). If the defined Action Level or Limit Level for coral monitoring is exceeded, the actions set out in *Table 2.2* will be implemented.

Table 2.1 *Action and Limit Levels for Post-Translocation Coral Monitoring*

Parameter	Action Level Definition	Limit Level Definition
Mortality	If during Impact Monitoring a 15% increase in the percentage of partial mortality on the corals occurs at more than 20% of the translocated coral colonies that is not recorded on the original corals at the receptor site, then the Action Level is exceeded.	If during Impact Monitoring a 25% increase in the percentage of partial mortality on the corals occurs at more than 20% of the translocated coral colonies that is not recorded on the original corals at the receptor site, then the Limit Level is exceeded.

Table 2.2 *Event and Action Plan for Post-Translocation Coral Monitoring*

Event	Action			
	ET Leader	IEC	SOR	Contractor
Action Level Exceedance	<ol style="list-style-type: none"> 1. Check monitoring data 2. Inform the IEC, SOR and Contractor of the findings; 3. Increase the monitoring to at least once a month to confirm findings; 4. Propose mitigation measures for consideration 	<ol style="list-style-type: none"> 1. Discuss monitoring with the ET and the Contractor; 2. Review proposals for additional monitoring and any other measures submitted by the Contractor and advise the SOR accordingly. 	<ol style="list-style-type: none"> 1. Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; 2. Make agreement on the measures to be implemented. 	<ol style="list-style-type: none"> 1. Inform the SOR and confirm notification of the non-compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the SOR; 3. Implement the agreed measures.
Limit Level Exceedance	<ol style="list-style-type: none"> 1. Undertake Steps 1-4 as in the Action Level Exceedance. If further exceedance of Limit Level, propose enhancement measures for consideration. 	<ol style="list-style-type: none"> 1. Discuss monitoring with the ET and the Contractor; 2. Review proposals for additional monitoring and any other measures submitted by the Contractor and advise the SOR accordingly. 	<ol style="list-style-type: none"> 1. Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; 2. Make agreement on the measures to be implemented. 	<ol style="list-style-type: none"> 1. Inform the SOR and confirm notification of the non-compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the SOR; 3. Implement the agreed measures.

The Second Quarterly Post-translocation Coral Monitoring was carried out at the receptor site, Yam Tsai Wan, on 16 April 2014. The weather conditions during the survey date are summarized in *Table 2.3*. Location of the survey area at the receptor site is presented in *Figure 2.1*.

Table 2.3 *Weather Conditions during the Second Quarterly Post-Translocation Coral Monitoring Survey*

Date	Location	Condition	Underwater Visibility
16 April 2014	Receptor site: Yam Tsai Wan	North force 4 to 5 Sunny periods	Less than 0.5 m

The species, size, mortality percentage, bleaching percentage and percentage of sediment cover of the translocated coral colonies and natural coral colonies recorded during the Second Quarterly Post-translocation Monitoring Surveys were summarized in *Tables 2.4* and *2.5*. Photographic records taken during the Second Quarterly Post-translocation Coral Monitoring are shown in *Annex A*.

Findings of the Second Quarterly Post-translocation Monitoring indicated that the Action or Limit Levels for coral monitoring were not exceeded as increase in percentage of partial mortality was not detected for both the tagged translocated and natural coral colonies when comparing to the pre-translocation dataset (*Tables 2.4 & 2.5*). As such, it is considered not necessary to undertake any action in accordance with the Event and Action Plan.

Overall, findings of the Second Quarterly Post-translocation Monitoring did not appear to indicate any deterioration in the general health conditions of the translocated and natural coral colonies at the receptor site during this quarterly period.



Figure 2.1

Post-translocation Coral Monitoring Survey Area under both
 Contract No. HY/2012/07 and HY/2012/08

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Table 2.4 Sizes, Partial Mortality, Bleaching and Sediment Cover of Tagged Translocated Coral Colonies from Donor Site, Tai Ho Wan, recorded during the Pre-translocation, First and Second Quarterly Post-translocation Coral Monitoring Surveys

Coral #	Species	Size (cm) - Max Diameter/ Height	Partial Mortality (%)	Percentage Increase in Partial Mortality (%) ⁽¹⁾	Bleaching (%)	Sediment (%)
Pre-translocation Survey on 23 October 2013 at the donor site, Tai Ho Wan						
1	<i>Guaiagorgia</i> sp.	7	0	N/A	N/A	0
2	<i>Guaiagorgia</i> sp.	9	0	N/A	N/A	0
3	<i>Guaiagorgia</i> sp.	5	0	N/A	N/A	0
4	<i>Guaiagorgia</i> sp.	8	0	N/A	N/A	0
5	<i>Guaiagorgia</i> sp.	13	10	N/A	N/A	0
6	<i>Guaiagorgia</i> sp.	8	70	N/A	N/A	0
7	<i>Guaiagorgia</i> sp.	6	0	N/A	N/A	0
8	<i>Guaiagorgia</i> sp.	7	0	N/A	N/A	0
9	<i>Guaiagorgia</i> sp.	19	50	N/A	N/A	0
10	<i>Guaiagorgia</i> sp.	15	35	N/A	N/A	0
11	<i>Guaiagorgia</i> sp.	22	55	N/A	N/A	0
12	<i>Guaiagorgia</i> sp.	14	20	N/A	N/A	0
13	<i>Guaiagorgia</i> sp.	16	45	N/A	N/A	0
First Quarterly Post-translocation Coral Monitoring Survey on 17 January 2014 at the Receptor Site, Yam Tsai Wan						
1	<i>Guaiagorgia</i> sp.	7	0	0	N/A	0
2	<i>Guaiagorgia</i> sp.	9	0	0	N/A	0
3	<i>Guaiagorgia</i> sp.	5	0	0	N/A	0
4	<i>Guaiagorgia</i> sp.	8	0	0	N/A	0
5	<i>Guaiagorgia</i> sp.	13	10	0	N/A	0
6	<i>Guaiagorgia</i> sp.	8	70	0	N/A	0
7	<i>Guaiagorgia</i> sp.	6	0	0	N/A	0
8	<i>Guaiagorgia</i> sp.	7	0	0	N/A	0
9	<i>Guaiagorgia</i> sp.	19	50	0	N/A	0
10	<i>Guaiagorgia</i> sp.	15	35	0	N/A	0
11	<i>Guaiagorgia</i> sp.	22	55	0	N/A	0
12	<i>Guaiagorgia</i> sp.	14	20	0	N/A	0
13	<i>Guaiagorgia</i> sp.	16	45	0	N/A	0
Second Quarterly Post-translocation Coral Monitoring Survey on 16 April 2014 at the Receptor Site, Yam Tsai Wan						
1	<i>Guaiagorgia</i> sp.	7	0	0	N/A	0
2	<i>Guaiagorgia</i> sp.	9	0	0	N/A	0
3	<i>Guaiagorgia</i> sp.	5	0	0	N/A	0
4	<i>Guaiagorgia</i> sp.	8	0	0	N/A	0
5	<i>Guaiagorgia</i> sp.	13	10	0	N/A	0

Coral #	Species	Size (cm) - Max Diameter/ Height	Partial Mortality (%)	Percentage Increase in Partial Mortality (%) ⁽¹⁾	Bleaching (%)	Sediment (%)
6	<i>Guaiagorgia</i> sp.	8	70	0	N/A	0
7	<i>Guaiagorgia</i> sp.	6	0	0	N/A	0
8	<i>Guaiagorgia</i> sp.	7	0	0	N/A	0
9	<i>Guaiagorgia</i> sp.	19	50	0	N/A	0
10	<i>Guaiagorgia</i> sp.	15	35	0	N/A	0
11	<i>Guaiagorgia</i> sp.	22	55	0	N/A	0
12	<i>Guaiagorgia</i> sp.	14	20	0	N/A	0
13	<i>Guaiagorgia</i> sp.	16	45	0	N/A	0

Note:

(1) Represents percentage increase in partial mortality from the Baseline Survey to the Impact Coral Monitoring Survey.

Table 2.5 Sizes, Mortality, Bleaching and Sediment of Tagged Natural Coral Colonies at Receptor Site, Yam Tsai Wan

Coral #	Species	Size (cm) – Max. Diameter/ Height	Partial Mortality (%)	Percentage Increase in Partial Mortality (%) ⁽¹⁾	Bleaching (%)	Sediment (%)
Pre-translocation Survey on 24 October 2013						
1	<i>Guaiagorgia</i> sp.	25	5	N/A	N/A	0
2	<i>Guaiagorgia</i> sp.	32	35	N/A	N/A	0
3	<i>Guaiagorgia</i> sp.	28	15	N/A	N/A	0
4	<i>Guaiagorgia</i> sp.	38	25	N/A	N/A	0
5	<i>Guaiagorgia</i> sp.	27	40	N/A	N/A	0
6	<i>Guaiagorgia</i> sp.	28	25	N/A	N/A	0
7	<i>Guaiagorgia</i> sp.	21	10	N/A	N/A	0
8	<i>Guaiagorgia</i> sp.	26	30	N/A	N/A	0
9	<i>Guaiagorgia</i> sp.	19	50	N/A	N/A	0
10	<i>Guaiagorgia</i> sp.	35	35	N/A	N/A	0
First Quarterly Post-translocation Monitoring Survey on 17 January 2014						
1	<i>Guaiagorgia</i> sp.	25	5	0	N/A	0
2	<i>Guaiagorgia</i> sp.	32	35	0	N/A	0
3	<i>Guaiagorgia</i> sp.	28	15	0	N/A	0
4	<i>Guaiagorgia</i> sp.	38	25	0	N/A	0
5	<i>Guaiagorgia</i> sp.	27	40	0	N/A	0
6	<i>Guaiagorgia</i> sp.	28	25	0	N/A	0
7	<i>Guaiagorgia</i> sp.	21	10	0	N/A	0
8	<i>Guaiagorgia</i> sp.	26	30	0	N/A	0
9	<i>Guaiagorgia</i> sp.	19	50	0	N/A	0
10	<i>Guaiagorgia</i> sp.	35	35	0	N/A	0
Second Quarterly Post-translocation Monitoring Survey on 16 April 2014						
1	<i>Guaiagorgia</i> sp.	25	5	0	N/A	0
2	<i>Guaiagorgia</i> sp.	32	35	0	N/A	0
3	<i>Guaiagorgia</i> sp.	28	15	0	N/A	0
4	<i>Guaiagorgia</i> sp.	38	25	0	N/A	0
5	<i>Guaiagorgia</i> sp.	27	40	0	N/A	0
6	<i>Guaiagorgia</i> sp.	28	25	0	N/A	0
7	<i>Guaiagorgia</i> sp.	21	10	0	N/A	0
8	<i>Guaiagorgia</i> sp.	26	30	0	N/A	0
9	<i>Guaiagorgia</i> sp.	19	50	0	N/A	0
10	<i>Guaiagorgia</i> sp.	35	35	0	N/A	0

Note:

(1) Represents percentage increase in partial mortality from the Baseline Survey to the Impact Coral Monitoring Survey.

SCHEDULE OF QUARTERLY POST-TRANSLOCATION CORAL MONITORING

Post-Translocation Coral Monitoring will be conducted every three (3) months for a period of 12 months. The tentative schedule of the subsequent quarterly post-translocation monitoring is provided in *Table 3.1* below.

Table 3.1 *Schedule of Quarterly Post-Translocation Monitoring*

Post-Translocation Monitoring Survey ⁽¹⁾	Timing
1 st Quarterly Monitoring	3 months after the translocation works Conducted on 17 January 2014
2 nd Quarterly Monitoring	6 months after the translocation works Conducted on 16 April 2014
3 rd Quarterly Monitoring	9 months after the translocation works July 2014
4 th Quarterly Monitoring	12 months after the translocation works October 2014

Note:

(1) Shaded cell indicates completed quarterly monitoring.

The Second Quarterly Post-Translocation Coral Monitoring has been carried out on 16 April 2014 at the receptor site, Yam Tsai Wan, as per the requirements stipulated in the *Detailed Coral Translocation Methodology*. During the monitoring, 13 translocated coral colonies and 10 natural coral colonies were re-visited and monitored at the receptor site, Yam Tsai Wan. The conditions of the translocated and natural coral colonies during the Second Quarterly Post-Translocation Coral Monitoring are compared with the pre-translocation conditions which were recorded during the coral translocation exercise in October 2013.

Action and Limit Levels for the partial mortality of tagged corals were established based on the Pre-translocation Coral Monitoring results. No exceedances of the Action and Limit Levels were identified during the Second Quarterly Post-Translocation Coral Monitoring on 16 April 2014. There thus did not appear to be any deterioration in the general conditions of the translocated and natural coral colonies at the receptor site, Yam Tsai Wan.

Overall, the coral translocation exercise is considered to be undertaken successfully as the translocated corals did not show any sign of deterioration in condition at the receptor site during this quarterly survey.

Findings of future Post-Translocation Coral Monitoring surveys will be presented in the subsequent Post-Translocation Coral Monitoring Reports in order to determine any observable changes in status of the translocated coral colonies. In the event that deterioration in conditions of the translocated corals is identified, monitoring would allow for implementation of appropriate remedial actions to mitigate such changes in condition.

Annex A

Photographic Records of Translocated and Tagged Natural Coral Colonies

Coral #	Baseline monitoring Survey	2 Quarterly Post-Translocated Monitoring
1	 A close-up photograph of a small, white, branching coral colony. A white tag with the red text 'TH01' is held in front of the coral.	 A photograph of the same coral colony TH01, showing its growth and branching structure over time. The tag 'TH01' is visible in the background.
2	 A close-up photograph of a small, white, branching coral colony. A white tag with the red text 'TH02' is held in front of the coral.	 A photograph of the same coral colony TH02, showing its growth and branching structure over time. The tag 'TH02' is visible in the background.
3	 A close-up photograph of a small, light blue, branching coral colony. A white tag with the red text 'TH03' is held in front of the coral.	 A photograph of the same coral colony TH03, showing its growth and branching structure over time. The tag 'TH03' is visible in the background.
4	 A close-up photograph of a small, white, branching coral colony. A white tag with the red text 'TH04' is held in front of the coral.	 A photograph of the same coral colony TH04, showing its growth and branching structure over time. The tag 'TH04' is visible in the background.
5	 A close-up photograph of a small, white, branching coral colony. A white tag with the red text 'TH05' is held in front of the coral.	 A photograph of the same coral colony TH05, showing its growth and branching structure over time. The tag 'TH05' is visible in the background.

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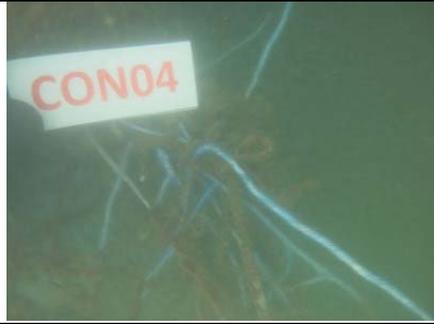
12



13



Photographic Records of Tagged Natural Coral Colonies at Receptor Site, Yam Tsui Wan

Coral #	Baseline monitoring Survey	2 nd Quarterly Post-Translocated Monitoring
1		
2		
3		
4		
5		

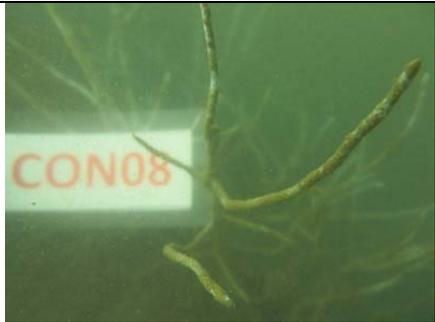
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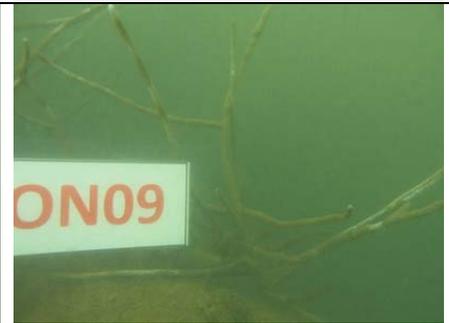
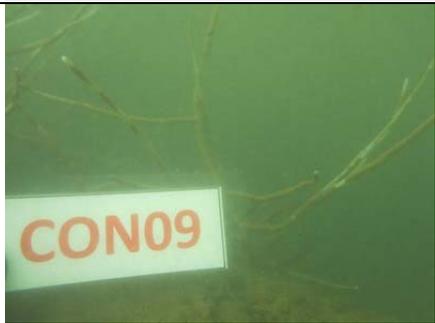
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