



Stantec

Stantec Consulting Ltd
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October 13, 2011
File: 121410955.245

Sydney Tar Ponds Agency
1 Inglis Street
PO Box 1028, Stn. A
Sydney, NS B1P 6J7

Attention: Ms. Diane Ingraham, PhD., PMP, Quality Contracts Manager

Dear Ms. Ingraham:

**Reference: STPA Project Element CO6A – Coke Ovens Capping
Independent Quality Assurance (IQAC) August 2011 Monthly Summary Report**

At the request of Sydney Tar Ponds Agency (STPA), Stantec Consulting Ltd (Stantec) has completed the following quality assurance inspection/testing services and meetings in accordance with project requirements at the above mentioned site between August 1 and August 31, 2011:

- Project Item PM-01: Seven daily field reports.
- Project Item PM-02: One monthly QA report (August 2011) completed in the month of October 2011.
- Project Item PM-04: Two site meetings were attended in the month of August 2011.
- Project Item PM-05: Other meetings and frequent opinions were provided in the month of August 2011.
- Project Item QCP-02: Submittal reviews (Review of revised Contractor's Quality Control Plan (CQCP) in the month of August 2011 and August 2011 QC report including daily/test reports in the month of October 2011).
- Project Item ENV-T-01: One noise monitoring event. Noise levels were not within the specified limits at 2 of the 3 locations. STPA was immediately notified.
- Project Item ENV-T-02: Six surface water (turbidity) sampling events. All measurements recorded were within the acceptable range.

We trust this information meets your present requirements. If you have any questions, please do not hesitate to contact us.



Sincerely,

STANTEC CONSULTING LTD



Rabi Morelly, M.Sc., P.Eng.
Geotechnical and Materials Quality Lead
rabi.morelly@stantec.com

Willie McNeil, B.Tech. (Env.), CET
Project Manager
willie.mcneil@stantec.com

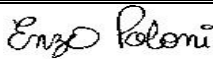

**STPA PROJECT ELEMENT CO6A: COKE OVENS SURFACE CAP
IQAC SITE TESTING SUMMARY**

Date:	August 15, 2011	IQAC On-Site Rep:	Enzo Poloni
Relevant Project Specification(s)	Environmental Quality Assurance	Relevant Project Specification(s) No.	QA-EPP Project No. 121410955.245
IQAC Item No(s) / Descriptions	ENV-T-02	Time On-Site:	10:55
Weather:	Cloudy, 22°C		
Area Tested/Inspected:	CO6A – Coke Oven Brook Up/Down Stream		
Inspection / Testing Summary			
<p>Stantec arrived on site at 10:55am for turbidity sampling at the Narrows. Tim noted only 2 samples are taken on site with a running/daily background sample and a single downstream sample at the railway culvert with the converging of 3 contributor streams. All samples taken along the Coke Oven Brook shore. Sampling at 11:00am. Activities included trucking contaminated material from CO6A to CO6B. Downstream sample appeared cleaner than upstream.</p> <p>Samples analyzed at Stantec lab.</p>			
Sample #	GPS Co-ordinates (NAD 83 – Northing/Easting)	General Site Description	Sample Results (NTU)
1	460 2056 511 2961	ESE-5 Upstream	1.77
2	460 2735 511 3172	ESE-2 Downstream	1.46
<p>As stated in the Environmental Protection Plan – <i>“The upper level criteria defined as a reportable event for turbidity will be 110% of background, when background (upstream sample location) is greater than or equal to 80 Nephelometric Turbidity Units (NTU). When background is less than 80NTU, a reportable event will be greater than an increase of 8NTU above background”</i></p> <p><i>Turbidity values recorded above are within acceptable levels.</i></p>			
IQAC Review and Acceptance			
IQAC On-Site Rep (Sign/Print/Date):	 /Enzo Poloni, B.Tech. (Env)	IQAC Management Review (Sign/Print/Date):	 /Tanya MacDonald, B.Tech.(Env), ASCT
	August 15, 2011		August 16, 2011

**STPA PROJECT ELEMENT CO6A: COKE OVENS SURFACE CAP
IQAC SITE TESTING SUMMARY**

Date:	August 22, 2011	IQAC On-Site Rep:	Enzo Poloni
Relevant Project Specification(s)	Environmental Quality Assurance	Relevant Project Specification(s) No.	QA-EPP Project No. 121410955.245
IQAC Item No(s) / Descriptions	ENV-T-02	Time On-Site:	10:55
Weather:	Cloudy, 21°C		
Area Tested/Inspected:	CO6A – Coke Oven Brook Up/Down Stream		
Inspection / Testing Summary			
<p>Stantec arrived on site at 10:55am for turbidity sampling at the Narrows. Sampling began at 11:15am. Downstream sampled first, then upstream. QC/Contractor noted only contaminated materials trucking from CO6A stockpile to CO6B laydown. Island Well Drilling with water truck onsite. Samples analyzed at Stantec lab.</p>			
Sample #	GPS Co-ordinates (NAD 83 – Northing/Easting)	General Site Description	Sample Results (NTU)
1	460 2733 511 3173	ESE-5 Upstream	2.05
2	460 2058 511 2958	ESE-2 Downstream	1.02
<p>As stated in the Environmental Protection Plan – <i>“The upper level criteria defined as a reportable event for turbidity will be 110% of background, when background (upstream sample location) is greater than or equal to 80 Nephelometric Turbidity Units (NTU). When background is less than 80NTU, a reportable event will be greater than an increase of 8NTU above background”</i></p> <p><i>Turbidity values recorded above are within acceptable levels.</i></p>			
IQAC Review and Acceptance			
IQAC On-Site Rep (Sign/Print/Date):	 /Enzo Poloni, B.Tech. (Env)	IQAC Management Review (Sign/Print/Date):	 /Tanya MacDonald, B.Tech.(Env), ASCT
	August 22, 2011		August 23, 2011

**STPA PROJECT ELEMENT CO6A: COKE OVENS SURFACE CAP
IQAC SITE TESTING SUMMARY**

Date:	August 30, 2011	IQAC On-Site Rep:	Enzo Poloni
Relevant Project Specification(s)	Environmental Quality Assurance	Relevant Project Specification(s) No.	QA-EPP Project No. 121410955.245
IQAC Item No(s) / Descriptions	ENV-T-02	Time On-Site:	10:55
Weather:	Cloudy, 21°C		
Area Tested/Inspected:	CO6A – Coke Oven Brook Up/Down Stream		
Inspection / Testing Summary			
Stantec arrived on site at 10:55am for turbidity sampling at the Narrows. Met with Tim and was introduced to his upcoming replacement, Jonathan Rochard (EXP). Tim noted NS Lands was on site for testing the upper COB (land-fill side) pertaining to reddish-staining/suspension. Downstream first, then upstream. Samples analyzed at Stantec lab.			
Sample #	GPS Co-ordinates (NAD 83 – Northing/Easting)	General Site Description	Sample Results (NTU)
1	460 2735 511 3174	ESE-5 Upstream	2.93
2	460 2056 511 2958	ESE-2 Downstream	1.22
As stated in the Environmental Protection Plan – <i>“The upper level criteria defined as a reportable event for turbidity will be 110% of background, when background (upstream sample location) is greater than or equal to 80 Nephelometric Turbidity Units (NTU). When background is less than 80NTU, a reportable event will be greater than an increase of 8NTU above background”</i>			
<i>Turbidity values recorded above are within acceptable levels.</i>			
IQAC Review and Acceptance			
IQAC On-Site Rep (Sign/Print/Date):	 /Enzo Poloni, B.Tech. (Env)	IQAC Management Review (Sign/Print/Date):	 /Tanya MacDonald, B.Tech.(Env), ASCT
	August 30, 2011		August 31, 2011



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August 11, 2011
File: 121410955.245.400

Sydney Tar Ponds Agency
1 Inglis Street
PO Box 1028, Str. A
Sydney, NS B1P 6J7

Attention: Ms. Diane Ingraham, Ph.D., PMP, Quality Contract Manager

Dear: Ms. Ingraham

**Reference: Review of Contractor's Quality Control Plan (CQCP) July 2011 Revision
Element CO6A Coke Ovens Capping
Sydney Tar Ponds Project, Sydney, NS**

At the request of the Sydney Tar Ponds Agency (STPA), Stantec Consulting Limited (Stantec), acting as the Project Independent Quality Assurance Consultant (IQAC), has completed a quality assurance review of the Contractor's, DENKO Mi'kmaq Enterprises LTD, Quality Control Plan (CQCP) for Project Element CO6A (July 2011 Revision).

Based on our review of the information provided, the IQAC offers the following comments for your considerations:

- The CQCP is still not stating the applicable quality control requirements (i.e.; gradation and durability requirements) and testing frequencies of Rip Rap material.
- The Field Report for Concrete Strength Specimens and Concrete Field Report forms enclosed in appendix B "Relevant Forms" should be revised or replaced to include only applicable parameters for grout testing.
- Section 3.2 states that the Contractor's Environmental Protection Plan (CEPP) has been developed and has been accepted by the DE. The IQAC cannot comment on the contents of the CEPP, as it has not been provided for review.
- Appendix A Quality Assurance and Quality Control Testing and Inspection Requirements CO6A Table lists ENV-T-01 in the Environmental Testing section of the table. However, the remainder of the row is blank. This section does not include a description of what the test is, the activity, criteria/standard or frequency. Upon review of the "Contract Documents" it was revealed that the QA/QC Testing & Inspection Table (Appendix B) of the Quality Control Plan (Appendix D) in the Contract Documents is also missing this information. Based on the review of the Nova Scotia Environment Approval (Section 6) and CO6 100% Environmental Protection Plan (Section 4.2), noise monitoring is required to be conducted at the nearest receptors during construction hours and at the construction fence line. The row in the table has not been revised.
- Appendix A Quality Assurance and Quality Control Testing and Inspection Requirements CO6A Table lists a frequency for QA as once per week for Environmental Inspections (ENV-I-01 through to ENV-I-06). At the request of STPA, the IQAC will not be conducting any Environmental Inspections. QA Frequency should be listed as Not Applicable.
- The requirement for surface water monitoring is listed in Section 4.3 of the CO6 100% Environmental Protection Plan. However, this requirement has not been carried forward in the Quality Assurance and Quality Control Testing and Inspection Requirements CO6A Table in either the CQCP or the Quality Control Plan provided in the Contract Documents. Surface water testing has not been included in the revised CQCP.

August 11, 2011

Ms. Diane Ingraham, Ph.D., PMP, Quality Contract Manager

Page 2 of 2

**Reference: Review of Contractor's Quality Control Plan (CQCP) July 2011 Revision
Element CO6A Coke Ovens Capping
Sydney Tar Ponds Project, Sydney, NS**

Our above comments are for your further review and necessary action.

We trust this information meets your present needs. If you have any questions, or if we can be of further assistance, please do not hesitate to contact us at your convenience.

Sincerely,

STANTEC CONSULTING LTD.



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Geotechnical & Materials Engineer
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Stantec

October 12, 2011
 File: 121410955.245

Sydney Tar Ponds Agency
 1 Inglis Street
 PO Box 1028, Str. A
 Sydney, NS B1P 6J7

Attention: Ms. Diane Ingraham, Ph.D., PMP, Quality Contract Manager

Dear: Ms. Ingraham

**Reference: Environmental Quality Assurance of Quality Control Program
 Element CO6A, Sydney Tar Ponds Project, Sydney, NS
 Review of Contractor's August 2011 Quality Control (QC) Report**

At the request of the Sydney Tar Ponds Agency (STPA), Stantec Consulting Limited (Stantec), acting as the project Independent Quality Assurance Consultant (IQAC), has completed a Quality Assurance Review of the Contractor's, (DENKO Mi'Kmaq Enterprises Ltd.) and their quality control consultant (exp. Global Inc.), Monthly Quality Control (QC) Report for the month of August 2011 for project element CO6A.

Comments are prepared using a three tier system as requested by the STPA:

- Level 1 - Critical comments which need to be addressed promptly. The IQAC requests responses on any critical comments within one week.
- Level 2 - Comments for which a response is required. All comments for which a response is required should be responded to in the form of a written response or by providing the necessary information as requested.
- Level 3 - Comments that would improve the quality of the work but for which the agency need not respond to.

Based on our review of the QC information provided from the referenced period, the IQAC offers the following comments for your considerations:

Level 3	<u>Environmental Inspection Logs</u> EILs from August 4, 5, 8, 9 th and 16 th are not included in Appendix E or summarized on the Construction Quality Control (QC) Environmental Inspection Summary Table.
Level 1	<u>Environmental Inspection Logs</u> The footnote on Page 1 of the EILs state, " <i>Criteria for Acceptable and Not Acceptable for each checklist item is given on Pages 3 to 6</i> ". Pages 3 to 6 are not provided nor is the guidelines for noise or surface water provided on the EIL. As such, it cannot be determined from the EIL if the measurements Pass or Fail the guidelines.
Level 3	<u>Environmental Inspection Logs</u> The final noise monitoring result on August 19, 2011 is missing on the EIL. It is presented as 66.4 L _{eq} (dBA) in the Summary Table.

October 12, 2011

Ms. Diane Ingraham, Ph.D., PMP, Quality Contract Manager

Page 2 of 2

**Reference: Environmental Quality Assurance of Quality Control Program
Element CO6A Sydney Tar Ponds Project, Sydney, NS
Review of Contractor's August 2011 Quality Control (QC) Report**

Level 1	<u>Independent Quality Assurance Monitoring</u> Stantec (IQAC) was not provided proper notification that the QC had commenced noise and surface water monitoring. As such, the IQAC took the initiative to contact the QC Environmental Monitor to arrange for monitoring. However, this communication did not happen until the second week of August. Therefore, the IQAC does not have data to provide for the first week in this monthly report on noise and surface water sampling.
Level 3	<u>Quality Control (QC) and Quality Assurance (QA) Environmental Testing Summary Table</u> Noise Sampling results on August 3, 2011 are reported as 67.8 L _{eq} (dBA), 68.2 L _{eq} (dBA) and 64.2 L _{eq} (dBA) on the Summary Table. However, the results presented on the EILs for August 3, 2011 are 67.8 L _{eq} (dBA), 67.5 L _{eq} (dBA) and 66.2 L _{eq} (dBA).

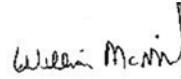
We trust this information meets your present needs. If you have any questions, or if we can be of further assistance, please do not hesitate to contact us at your convenience.

Sincerely,

STANTEC CONSULTING LTD



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Sydney Tar Ponds Agency
1 Inglis Street
PO Box 1028, Str. A
Sydney, NS B1P 6J7

Attention: Ms. Diane Ingraham, Ph.D., PMP, Quality Contract Manager

Dear Ms. Ingraham:

**Reference: Materials and Geotechnical Quality Assurance of Quality Control Program
Element CO6A, Sydney Tar Ponds Project, Sydney, NS
Review of Contractor's August 2011 Quality Control (QC) Report**

At the request of the Sydney Tar Ponds Agency (STPA), Stantec Consulting Ltd (Stantec), acting as the project Independent Quality Assurance Consultant (IQAC), has completed a Quality Assurance Review of the Contractor's (DENKO Mi'kmaq Enterprises LTD, and their quality control consultant (exp Services Inc. (exp)) Monthly Quality Control (QC) Report for the month of August 2011 for project Element CO6A.

Comments are prepared using a three tier system as requested by the STPA:

Level 1 - Critical comments which need to be addressed promptly. The IQAC requests responses on any critical comments within one week.

Level 2 - Comments for which a response is required. All comments for which a response is required should be responded to in the form of a written response or by providing the necessary information as requested.

Level 3 - Comments that would improve the quality of the work but for which the agency need not respond to.

Based on our review of the QC information provided from the referenced period, the IQAC does not offer any comments.

This report covers the quality control aspects for the materials and geotechnical inspection/testing portions of the project. We trust this information meets your present needs. If you have any questions, or if we can be of further assistance, please do not hesitate to contact us at your convenience.

Sincerely,

STANTEC CONSULTING LTD

Rabi Morelly, M.Sc., P.Eng
Geotechnical & Materials Quality Lead
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Willie McNeil, B.Tech. (Env.), CET
Project Manager
willie.mcneil@stantec.com

Quality Control (QC) and Quality Assurance (QA) Environmental Testing Summary Table

- Weekly
 Monthly

From: 2011-07-31 To: 2011-08-27

Contractor:	DENKO M'Kmaq Enterprises	Client:	STPA	Form Number:	97918-QAF-073
Element:	CO6A	Oversight:	Dillon Consulting	Project:	Remediation of the Tar Ponds and Coke Ovens Sites
		IQAC:	Stantec		

SPECIFIED REQUIREMENTS						RESULTS										NOTES					
Spec Section	Spec Description	Test Type	Standard	QC Frequency	QA Frequency	Date Collected	QC Sample ID	Criteria	Date QC Result Received	QC Test Result	QC Pass/Fail	QC Frequency Met? Y/N	QA Sample ID	Date QA Result Received	QA Test Result	QA Pass/Fail	QA Frequency Met? Y/N	QC	QA		
Week 1																					
EPP Section 4.3	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-08-01	CO6A-ESC 5-0730-2011-08-01 CO6A-ESC 2-0730-2011-08-01 CO6A-ESC 5-1100-2011-08-01 CO6A-ESC 2-1100-2011-08-01 CO6A-ESC 5-1500-2011-08-01 CO6A-ESC 2-1500-2011-08-01	As per EPP	2011-08-01	1.44 NTU 2.26 NTU 1.75 NTU 2.32 NTU 2.55 NTU 2.22 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.		
EPP Section 4.2	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Daily		2011-08-01	CO6A-100m E site Trailer, 15m S Spar - 2011-08-01 CO6A-50m E site trailer, 15m S Spar - 2011-08-01 CO6A-50m E site trailer, 25m S Spar - 2011-08-01	CBRM noise by-law and NSE criteria	2011-08-01	71.0 L _{eq} (dBA) 65.6 L _{eq} (dBA) 64.6 L _{eq} (dBA)	Fail	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results. Noise exceedances were due to wind and excess traffic along SPAR road.		
EPP Section 4.2	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Daily		2011-08-02	CO6A-100m E site Trailer, 15m S Spar - 2011-08-02 CO6A-50m E site trailer, 15m S Spar - 2011-08-02 CO6A-50m W site trailer, 25m S Spar - 2011-08-02	CBRM noise by-law and NSE criteria	2011-08-02	70.5 L _{eq} (dBA) 68.2 L _{eq} (dBA) 64.2 L _{eq} (dBA)	Fail	Y							Samples were collected in accordance with the EPP. Please refer to the daily observation report for specific testing results. Noise exceedances were due to wind and excess traffic along SPAR road.		
EPP Section 4.3	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-08-02	CO6A-ESC 5-0700-2011-08-02 CO6A-ESC 2-0700-2011-08-02 CO6A-ESC 5-1100-2011-08-02 CO6A-ESC 2-1100-2011-08-02 CO6A-ESC 5-1530-2011-08-02 CO6A-ESC 2-1530-2011-08-02	As per EPP	2011-08-02	2.26 NTU 2.37 NTU 4.01 NTU 2.06 NTU 3.37 NTU 2.25 NTU	Pass	Y								Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
EPP Section 4.2	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Daily		2011-08-03	CO6A-50m W site trailer, 25m S Spar - 2011-08-03 CO6A-25m S Spar in front of site trailer - 2011-08-03 CO6A-50m W site trailer, 15m S Spar - 2011-08-03	CBRM noise by-law and NSE criteria	2011-08-03	67.8 L _{eq} (dBA) 68.2 L _{eq} (dBA) 64.2 L _{eq} (dBA)	Fail	Y							Samples were collected in accordance with the EPP. Please refer to the daily observation report for specific testing results. Noise exceedances were due to wind and excess traffic along SPAR road.		
EPP Section 4.3	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-08-03	CO6A-ESC 5-0730-2011-08-03 CO6A-ESC 2-0730-2011-08-03 CO6A-ESC 5-1130-2011-08-03 CO6A-ESC 2-1130-2011-08-03	As per EPP	2011-08-03	2.02 NTU 2.08 NTU 2.03 NTU 2.68 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.		
Week 2																					
EPP Section 4.2	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Daily		2011-08-10	CO6A-50m W site trailer, 25m S Spar - 2011-08-10 CO6A-30m S Spar, in front of site trailer - 2011-08-10 CO6A-50m E site trailer, 25m S Spar - 2011-08-10	CBRM noise by-law and NSE criteria	2011-08-10	69.3 L _{eq} (dBA) 64.8 L _{eq} (dBA) 68.9 L _{eq} (dBA)	Fail	Y							Samples were collected in accordance with the EPP. Please refer to the daily observation report for specific testing results. Noise exceedances were due to wind and excess traffic along SPAR road.		
EPP Section 4.3	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-08-10	CO6A-ESC 5-0720-2011-08-10 CO6A-ESC 2-0720-2011-08-10 CO6A-ESC 5-1100-2011-08-10 CO6A-ESC 2-1100-2011-08-10 CO6A-ESC 5-1530-2011-08-10 CO6A-ESC 2-1530-2011-08-10	As per EPP	2011-08-10	1.35 NTU 2.87 NTU 1.21 NTU 2.66 NTU 2.10 NTU 2.81 NTU	Pass	Y								Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
EPP Section 4.2	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Daily		2011-08-11	CO6A-50m W site trailer, 25m S Spar - 2011-08-11 CO6A-25m S Spar, in front of site trailer - 2011-08-11 CO6A-50m E site trailer, 25m S Spar - 2011-08-11	CBRM noise by-law and NSE criteria	2011-08-11	69.6 L _{eq} (dBA) 65.9 L _{eq} (dBA) 67.8 L _{eq} (dBA)	Fail	Y							Samples were collected in accordance with the EPP. Please refer to the daily observation report for specific testing results. Noise exceedances were due to wind and excess traffic along SPAR road.		
EPP Section 4.3	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-08-11	CO6A-ESC 5-0730-2011-08-11 CO6A-ESC 2-0730-2011-08-11 CO6A-ESC 5-1100-2011-08-11 CO6A-ESC 2-1100-2011-08-11 CO6A-ESC 5-1500-2011-08-11 CO6A-ESC 2-1500-2011-08-11	As per EPP	2011-08-11	1.92 NTU 3.46 NTU 2.00 NTU 3.25 NTU 2.48 NTU 2.91 NTU	Pass	Y								Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
EPP Section 4.2	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Daily		2011-08-12	CO6A-50m W site trailer, 25m S Spar - 2011-08-12 CO6A-25m S Spar, in front of site trailer - 2011-08-12 CO6A-50m E site trailer, 35m S Spar - 2011-08-12	CBRM noise by-law and NSE criteria	2011-08-12	74.9 L _{eq} (dBA) 69.5 L _{eq} (dBA) 66.5 L _{eq} (dBA)	Fail	Y							Samples were collected in accordance with the EPP. Please refer to the daily observation report for specific testing results. Noise exceedances were due to trains, wind and excess traffic along SPAR road.		
EPP Section 4.3	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-08-12	CO6A-ESC 5-0730-2011-08-12 CO6A-ESC 2-0730-2011-08-12 CO6A-ESC 5-1100-2011-08-12 CO6A-ESC 2-1100-2011-08-12 CO6A-ESC 5-1500-2011-08-12 CO6A-ESC 2-1500-2011-08-12	As per EPP	2011-08-12	1.54 NTU 2.83 NTU 1.65 NTU 3.17 NTU 2.45 NTU 3.10 NTU	Pass	Y								Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
Week 3																					
EPP Section 4.2	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Daily		2011-08-15	CO6A-50m W site trailer, 30m S Spar - 2011-08-15 CO6A-30m S Spar in front of site trailer - 2011-08-15 CO6A-150m E site trailer, 20m S Spar - 2011-08-15	CBRM noise by-law and NSE criteria	2011-08-15	72.8 L _{eq} (dBA) 69.5 L _{eq} (dBA) 66.3 L _{eq} (dBA)	Fail	Y							Samples were collected in accordance with the EPP. Please refer to the daily observation report for specific testing results. Noise exceedances were due to trains, wind and excess traffic along SPAR road.		

Quality Control (QC) and Quality Assurance (QA) Environmental Testing Summary Table

- Weekly
 Monthly

From: 2011-07-31 To: 2011-08-27

Contractor:	DENKO M'Kmaq Enterprises	Client:	STPA	Form Number:	97918-QAF-073
Element:	CO6A	Oversight:	Dillon Consulting	Project:	Remediation of the Tar Ponds and Coke Ovens Sites
		IQAC:	Stantec		

SPECIFIED REQUIREMENTS						RESULTS											NOTES		
Spec Section	Spec Description	Test Type	Standard	QC Frequency	QA Frequency	Date Collected	QC Sample ID	Criteria	Date QC Result Received	QC Test Result	QC Pass/Fail	QC Frequency Met? Y/N	QA Sample ID	Date QA Result Received	QA Test Result	QA Pass/Fail	QA Frequency Met? Y/N	QC	QA
EPP Section 4.3	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours	Once weekly	2011-08-15	CO6A-ESC 5-0730-2011-08-15 CO6A-ESC 2-0730-2011-08-15 CO6A-ESC 5-1130-2011-08-15 CO6A-ESC 2-1130-2011-08-15 CO6A-ESC 5-1500-2011-08-15 CO6A-ESC 2-1500-2011-08-15	As per EPP	2011-08-15	0.39 NTU 1.94 NTU 1.83 NTU 1.62 NTU 2.61 NTU 1.51 NTU	Pass	Y	CO6A-ESC5-2011-08-15 CO6A-ESC2-2011-08-15	15-Aug	1.77 NTU 1.46 NTU	Pass Pass	Yes	Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	Samples were collected in accordance with the EPP. Please refer to the weekly IQAC Site Testing Summary for further details.
EPP Section 4.2	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Daily	Once Monthly	2011-08-17	CO6A-50m W site trailer, 30m S Spar - 2011-08-17 CO6A-30m S Spar, in front of site trailer - 2011-08-17 CO6A-150m E site trailer, 20m S Spar -2011-08-17	CBRM noise by-law and NSE criteria	2011-08-17	75.1 L _{eq} (dBA) 70.0 L _{eq} (dBA) 69.6 L _{eq} (dBA)	Fail	Y	CO6A-08-17-2011-0920-1134 CO6A-08-17-2011-1138-1340 CO6A-08-17-2011-1343-1514	2011-08-17	72.7 L _{eq} (dBA) 64.1 L _{eq} (dBA) 65.6 L _{eq} (dBA)	Fail Pass Fail	Yes	Samples were collected in accordance with the EPP. Please refer to the daily observation report for specific testing results. Noise exceedances were due to trains, wind and excess traffic along SPAR road.	Samples collected as per EPP. Refer to Monthly Noise QA Testing Summary Table in this report for more information.
EPP Section 4.3	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-08-17	CO6A-ESC 5-0900-2011-08-17 CO6A-ESC 2-0900-2011-08-17 CO6A-ESC 5-1300-2011-08-17 CO6A-ESC 2-1300-2011-08-17 CO6A-ESC 5-1700-2011-08-17 CO6A-ESC 2-1700-2011-08-17	As per EPP	2011-08-17	2.95 NTU 3.82 NTU 3.16 NTU 3.06 NTU 3.04 NTU 2.77 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
EPP Section 4.2	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Daily		2011-08-18	CO6A-50m W site trailer, 25m S Spar - 2011-08-18 CO6A-30m S Spar, in front of site trailer - 2011-08-18 CO6A-150m E site trailer, 25m S Spar -2011-08-18	CBRM noise by-law and NSE criteria	2011-08-18	70.9 L _{eq} (dBA) 65.7 L _{eq} (dBA) 71.5 L _{eq} (dBA)	Fail	Y						Samples were collected in accordance with the EPP. Please refer to the daily observation report for specific testing results. Noise exceedances were due to trains, wind and excess traffic along SPAR road.	
EPP Section 4.3	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-08-18	CO6A-ESC 5-0720-2011-08-18 CO6A-ESC 2-0720-2011-08-18 CO6A-ESC 5-1120-2011-08-18 CO6A-ESC 2-1120-2011-08-18 CO6A-ESC 5-1530-2011-08-18 CO6A-ESC 2-1530-2011-08-18	As per EPP	2011-08-18	1.49 NTU 3.25 NTU 2.41 NTU 2.11 NTU 2.46 NTU 2.97 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
EPP Section 4.2	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Daily		2011-08-19	CO6A-50m W site trailer, 30m S Spar - 2011-08-19 CO6A-30m S Spar, in front of site trailer - 2011-08-19 CO6A-150m E site trailer, 25m S Spar -2011-08-19	CBRM noise by-law and NSE criteria	2011-08-19	68.6 L _{eq} (dBA) 65.0 L _{eq} (dBA) 66.4 L _{eq} (dBA)	Fail	Y						Samples were collected in accordance with the EPP. Please refer to the daily observation report for specific testing results. Noise exceedances were due to trains, wind and excess traffic along SPAR road.	
EPP Section 4.3	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-08-19	CO6A-ESC 5-0730-2011-08-19 CO6A-ESC 2-0730-2011-08-19 CO6A-ESC 5-1130-2011-08-19 CO6A-ESC 2-1130-2011-08-19 CO6A-ESC 5-1500-2011-08-19 CO6A-ESC 2-1500-2011-08-19	As per EPP	2011-08-19	1.12 NTU 3.17 NTU 1.79 NTU 1.74 NTU 3.08 NTU 1.79 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
Week 4																			
EPP Section 4.2	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Daily		2011-08-22	CO6A-50m W site trailer, 30m S Spar -2011-08-22 CO6A-30m S Spar in front of site trailer - 2011-08-22 CO6A-150m E site trailer, 25m S Spar -2011-08-22	CBRM noise by-law and NSE criteria	2011-08-22	69.9 L _{eq} (dBA) 77.3 L _{eq} (dBA) 76.8 L _{eq} (dBA)	Fail	Y						Samples were collected in accordance with the EPP. Please refer to the daily observation report for specific testing results. Noise exceedances were due to trains, wind and excess traffic along SPAR road.	
EPP Section 4.3	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours	Once weekly	2011-08-22	CO6A-ESC 5-0730-2011-08-22 CO6A-ESC 2-0730-2011-08-22 CO6A-ESC 5-1100-2011-08-22 CO6A-ESC 2-1100-2011-08-22 CO6A-ESC 5-1500-2011-08-22 CO6A-ESC 2-1500-2011-08-22	As per EPP	2011-08-22	1.03 NTU 1.28 NTU 1.22 NTU 2.12 NTU 1.77 NTU 1.38 NTU	Pass	Y	CO6A-ESC5-2011-08-22 CO6A-ESC2-2011-08-22	22-Aug	2.05 NTU 1.02 NTU	Pass Pass	Yes	Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	Samples were collected in accordance with the EPP. Please refer to the weekly IQAC Site Testing Summary for further details.
EPP Section 4.2	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Daily		2011-08-23	CO6A-50m W site trailer, 30m S Spar - 2011-08-23 CO6A-30m S Spar, in front of site trailer - 2011-08-23 CO6A-150m E site trailer, 25m S Spar -2011-08-23	CBRM noise by-law and NSE criteria	2011-08-23	63.8 L _{eq} (dBA) 66.3 L _{eq} (dBA) 69.4 L _{eq} (dBA)	Fail	Y						Samples were collected in accordance with the EPP. Please refer to the daily observation report for specific testing results. Noise exceedances were due to trains, wind and excess traffic along SPAR road.	
EPP Section 4.3	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-08-23	CO6A-ESC 5-0720-2011-08-23 CO6A-ESC 2-0720-2011-08-23 CO6A-ESC 5-1100-2011-08-23 CO6A-ESC 2-1100-2011-08-23 CO6A-ESC 6-1100-2011-08-23 CO6A-ESC 5-1500-2011-08-23 CO6A-ESC 2-1500-2011-08-23	As per EPP	2011-08-23	2.38 NTU 7.26 NTU 12.0 NTU 20.7 NTU 13.1 NTU 5.63 NTU 5.89 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
EPP Section 4.2	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Daily		2011-08-24	CO6A-50m W site trailer, 30m S Spar - 2011-08-24 CO6A-30m S Spar, 50m W of site trailer - 2011-08-24 CO6A-150m W site trailer, 30m S Spar -2011-08-24	CBRM noise by-law and NSE criteria	2011-08-24	63.8 L _{eq} (dBA) 66.7 L _{eq} (dBA) 68.9 L _{eq} (dBA)	Fail	Y						Samples were collected in accordance with the EPP. Please refer to the daily observation report for specific testing results. Noise exceedances were due to trains and excess traffic along SPAR road.	
EPP Section 4.3	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-08-24	CO6A-ESC 5-0730-2011-08-24 CO6A-ESC 2-0730-2011-08-24 CO6A-ESC 5-1100-2011-08-24 CO6A-ESC 2-1100-2011-08-24 CO6A-ESC 5-1500-2011-08-24 CO6A-ESC 2-1500-2011-08-24	As per EPP	2011-08-24	1.54 NTU 3.59 NTU 1.60 NTU 3.34 NTU 1.93 NTU 3.44 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
EPP Section 4.2	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Daily		2011-08-25	CO6A-50m W site trailer, 30m S Spar - 2011-08-25 CO6A-30m S Spar, 50m W of site trailer - 2011-08-25 CO6A-150m W site trailer, 30m S Spar -2011-08-25	CBRM noise by-law and NSE criteria	2011-08-25	67.0 L _{eq} (dBA) 74.3 L _{eq} (dBA) 68.2 L _{eq} (dBA)	Fail	Y						Samples were collected in accordance with the EPP. Please refer to the daily observation report for specific testing results. Noise exceedances were due to winds, trains and excess traffic along SPAR road.	
EPP Section 4.3	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-08-25	CO6A-ESC 5-0720-2011-08-25 CO6A-ESC 2-0720-2011-08-25 CO6A-ESC 5-1130-2011-08-25 CO6A-ESC 2-1130-2011-08-25 CO6A-ESC 5-1500-2011-08-25 CO6A-ESC 2-1500-2011-08-25	As per EPP	2011-08-25	2.26 NTU 5.43 NTU 2.63 NTU 5.38 NTU 2.81 NTU 4.73 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
EPP Section 4.2	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Daily		2011-08-26	CO6A-50m W site trailer, 30m S Spar - 2011-08-26 CO6A-30m S Spar, 50m W of site trailer - 2011-08-26 CO6A-150m W site trailer, 30m S Spar -2011-08-26	CBRM noise by-law and NSE criteria	2011-08-26	69.3 L _{eq} (dBA) 67.9 L _{eq} (dBA) 72.7 L _{eq} (dBA)	Fail	Y						Samples were collected in accordance with the EPP. Please refer to the daily observation report for specific testing results. Noise exceedances were due to winds, trains and excess traffic along SPAR road.	

Quality Control (QC) and Quality Assurance (QA) Environmental Testing Summary Table

- Weekly
 Monthly

From: 2011-07-31 To: 2011-08-27

Contractor:	DENKO M'Kmaq Enterprises	Client:	STPA	Form Number:	97918-QAF-073
Element:	CO6A	Oversight:	Dillon Consulting	Project:	Remediation of the Tar Ponds and Coke Ovens Sites
		IQAC:	Stantec		

SPECIFIED REQUIREMENTS						RESULTS											NOTES			
Spec Section	Spec Description	Test Type	Standard	QC Frequency	QA Frequency	Date Collected	QC Sample ID	Criteria	Date QC Result Received	QC Test Result	QC Pass/Fail	QC Frequency Met? Y/N	QA Sample ID	Date QA Result Received	QA Test Result	QA Pass/Fail	QA Frequency Met? Y/N	QC	QA	
EPP Section 4.3	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-08-26	CO6A-ESC 5-0720-2011-08-26 CO6A-ESC 2-0720-2011-08-26 CO6A-ESC 5-1100-2011-08-26 CO6A-ESC 2-1100-2011-08-26 CO6A-ESC 5-1500-2011-08-26 CO6A-ESC 2-1500-2011-08-26	As per EPP	2011-08-26	1.73 NTU 5.67 NTU 2.18 NTU 4.79 NTU 2.11 NTU 4.19 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	

Quality Control (QC) and Quality Assurance (QA) Testing Summary Table

Weekly
 Monthly

From: 31-Jul-11 To: 27-Aug-11

Contractor: DENKO Mi'Kmaq Enterprises	Client: STPA	Form Number: 97918-QAF-059
Element: CO6A	Oversight: Dillon Consulting	Project: Remediation of the Tar Ponds and Coke Ovens Sites
	IQAC: Stantec	

SPECIFIED REQUIREMENTS						RESULTS											NOTES		
Spec Section	Spec Description	Test Type	Standard	QC Frequency	QA Frequency	Date Collected	QC Sample ID	Criteria	Date QC Result Received	QC Test Result	QC Pass/Fail	QC Frequency Met? Y/N	QA Sample ID	Date QA Result Received	QA Test Result	QA Pass/Fail	QA Frequency Met? Y/N	QC	QA
Week 1																			
No Testing Conducted this Week																			
Week 2																			
No Testing Conducted this Week																			
Week 3																			
No Testing Conducted this Week																			
Week 4																			
No Testing Conducted this Week																			



Stantec Consulting Ltd
207-201 Churchill Drive
Membertou NS B1S 0H1
Tel: (902) 564-1855
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Stantec

October 12, 2011
File: 121410955.245

Sydney Tar Ponds Agency
1 Inglis Street
PO Box 1028, Stn. A
Sydney, NS B1P 6J7

Attention: Ms. Diane Ingraham, PhD., CAPM, Quality Contracts Manager

Dear Ms. Ingraham:

**Reference: Extras Section - STPA Project Element CO6A Coke Ovens Capping
Independent Quality Assurance (IQAC) August 2011 Monthly Summary Report**

At the request of Sydney Tar Ponds Agency (STPA), Stantec Consulting Ltd (Stantec) has no reportable extra items to include in the EXTRAS section of the (IQAC) August 2011 Monthly Summary Report.

We trust this information meets your present requirements. If you have any questions, please do not hesitate to contact us.

Sincerely,

STANTEC CONSULTING LTD

Willie McNeil, B.Tech. (Env.), CET
Project Manager
Tel: (902) 564-1855
Fax: (902) 564-8756
willie.mcneil@stantec.com



Stantec

Stantec Consulting Ltd
207-201 Churchill Drive
Membertou NS B1S 0H1
Tel: (902) 564-1855
Fax: (902) 564-8756

Sydney Tar Ponds Agency
1 Inglis Street
PO Box 1028, Stn. A
Sydney, NS B1P 6J7

Attention: Ms. Diane Ingraham, PhD., PMP, Quality Contracts Manager

Dear Ms. Ingraham:

Reference: Monthly Invoices

As per the request of the Sydney Tar Ponds Agency, monthly invoices will be submitted in a separate submittal.

Sincerely,

STANTEC CONSULTING LTD

Willie McNeil, B.Tech. (Env.), CET
Project Manager
Tel: (902) 564-1855
Fax: (902) 564-8756
willie.mcneil@stantec.com