



Stantec Consulting Ltd
207-201 Churchill Drive
Membertou NS B1S 0H1
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Stantec

January 3, 2012
File: 121410955.225

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 TP6A – Flow Diversion
Independent Quality Assurance (IQAC) October 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 October 1 and October 31, 2011:

- Project Item PM-01: Six daily field reports.
- Project Item PM-02: One monthly QA report (October 2011) completed in the month of December 2011.
- Project Item PM-04: One site meeting was attended in the month of October 2011.
- Project Item PM-05: Other meetings and frequent opinions were provided in the month of October.
- Project Item QCP-02: Submittal reviews (Contractor's October 2011 QC report including daily/test reports).
- Project Items TS-70: Performed one air content, slump and temperature tests and seven day compressive strength testing on one concrete set/placement (set 26) for the mud slab of the dissipation structure. Test results are summarized in the QC/QA-Summary table.
- Project Item ENV-T-01: One noise monitoring event. Noise levels were within the specified limits. See Monthly Noise QA Testing Summary table in this report for further information.
- Project Item ENV-T-02: Sixteen (16) surface water (turbidity) sampling events. All measurements recorded were within the acceptable range with the exception of the samples collected at the Narrows on October 5, 2011. See the IQAC Site Testing Summary Form in this report for further information.

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

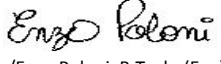
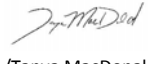
Willie McNeil, B.Tech. (Env.), CET
Project Manager
willie.mcneil@stantec.com

**STPA PROJECT ELEMENT TP6A: FLOW DIVERSION
IQAC SITE TESTING SUMMARY**

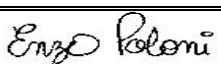

Date:	September 29, 2011	IQAC On-Site Rep:	Enzo Poloni
Relevant Project Specification(s)	Environmental Quality Assurance	Relevant Project Specification(s) No.	QA-EPP Project No. 121410955.225
IQAC Item No(s) / Descriptions	ENV-T-02	Time On-Site:	11:25am
Weather:	Sunny, 15°C		
Area Tested/Inspected:	TP6A – North Pond Narrows East/West		
Inspection / Testing Summary			
<p>Stantec arrived on site at 11:25am for turbidity sampling at the Narrows. Samples taken from boat. Met with QC representative and 2 laborers for sampling. Activities noted as silt curtain/oil boom replacement at Narrows with no activities at Battery Point. Samples analyzed at Stantec lab.</p>			
Sample #	GPS Co-ordinates (NAD 83 – Northing/Easting)	General Site Description	Sample Results (NTU)
1	460 0556 511 3140	West Side Narrows	1.16
2	460 0544 511 3155	East Side Narrows	1.21
<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>It has been reported to QA, that a background level of 7.39NTU is acceptable to use on element TP6A. As such, a reportable event would be a concentration downstream greater than 15.39 NTU.</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
	September 29, 2011		September 30, 2011

STPA PROJECT ELEMENT TP6A: FLOW DIVERSION



IQAC SITE TESTING SUMMARY

Date:	October 5, 2011	IQAC On-Site Rep:	Enzo Poloni
Relevant Project Specification(s)	Environmental Quality Assurance	Relevant Project Specification(s) No.	QA-EPP Project No. 121410955.225
IQAC Item No(s) / Descriptions	ENV-T-02	Time On-Site:	11:20am
Weather:	Rain, 16°C		
Area Tested/Inspected:	TP6A – Narrows, Battery Point, Wash Brook, Coke Ovens Brook		
Inspection / Testing Summary			
Stantec arrived on site at 11:20am for turbidity sampling at the Narrows. QA was informed of QC/Contractors amended procedures of sampling due to large amount of rain received over the number of days. QC sampling narrows (2 sites), Battery Point (2 sites) and Wash Brook/Coke Oven Brook (as contributors/background samples, 1 each site). Samples analyzed at Stantec lab.			
Sample #	GPS Co-ordinates (NAD 83 – Northing/Easting)	General Site Description	Sample Results (NTU)
1	460 0534 511 3146	West Side Narrows (Downstream)	26.5 (Fail)
2	460 0559 511 3154	East Side Narrows (Downstream)	29.1 (Fail)
3	460 0167 511 2146	West Battery Point (Downstream)	20.0
4	460 0138 511 3238	East Battery Point (Downstream)	21.2
5	460 1690 511 2455	Coke Oven Brook (Upstream)	9.85
6	460 1311 511 1874	Wash Brook (Upstream)	14.0
<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>It has been reported to QA, that a background level of 7.39NTU is acceptable to use on element TP6A. As such, a reportable event would be a concentration downstream greater than 15.39 NTU.</i></p> <p>Due to the fact that the west side and east side samples presented measured turbidity values above the 15.39NTU guideline, upstream samples were collected from the two contributing brooks (Coke Oven Brook and Wash Brook). Using 14.0 NTU as background in this case would result in a reading above 22 NTU as a failure. The failures are likely attributed to high winds and rain over the past few days onsite.</p> <p>It was reported to QA that the QC was going to continue to monitor every 2 hours for the rest of the day. QA notified STPA of the observed exceedence.</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
	October 5, 2011		October 6, 2011



**STPA PROJECT ELEMENT TP6A: FLOW DIVERSION
IQAC SITE TESTING SUMMARY**

Date:	October 13, 2011	IQAC On-Site Rep:	Enzo Poloni
Relevant Project Specification(s)	Environmental Quality Assurance	Relevant Project Specification(s) No.	QA-EPP Project No. 121410955.225
IQAC Item No(s) / Descriptions	ENV-T-02	Time On-Site:	11:20am
Weather:	Cloudy, 10°C		
Area Tested/Inspected:	TP6A – Narrows – East/West		
Inspection / Testing Summary			
<p>Stantec on site at 11:20am meeting Curt Knowles (QC representative) and 2 laborers. Sampling by boat at the Narrows began immediately. It was reported to QA by QC that only pump deficiencies were part of contractor's activities for the day.</p> <p>Samples analyzed at Stantec lab.</p>			
Sample #	GPS Co-ordinates (NAD 83 – Northing/Easting)	General Site Description	Sample Results (NTU)
1	460 0542 511 3132	West Side Narrows	1.45
2	460 0559 511 3163	East Side Narrows	1.50
<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>It has been reported to QA, that a background level of 7.39NTU is acceptable to use on element TP6A. As such, a reportable event would be a concentration downstream greater than 15.39 NTU.</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
	October 13, 2011		October 13, 2011

**STPA PROJECT ELEMENT TP6A: FLOW DIVERSION
IQAC SITE TESTING SUMMARY**

Date:	October 19, 2011	IQAC On-Site Rep:	Enzo Poloni
Relevant Project Specification(s)	Environmental Quality Assurance	Relevant Project Specification(s) No.	QA-EPP Project No. 121410955.225
IQAC Item No(s) / Descriptions	ENV-T-02	Time On-Site:	11:20
Weather:	Partly Cloudy, 13°C		
Area Tested/Inspected:	TP6A – Narrows and Battery Point		
Inspection / Testing Summary			
<p>Stantec onsite at 11:20am to meet Curt Knowles and 2 laborers. Sampling began at Narrows (where pump deficiencies were active) and then at Battery Point where side casting was taking place for a West side approach pad that will be used for next phase of the project.</p> <p>Samples analyzed at Stantec lab.</p>			
Sample #	GPS Co-ordinates (NAD 83 – Northing/Easting)	General Site Description	Sample Results (NTU)
1	460 0545 511 3134	West Side Narrows	2.22
2	460 0544 511 3165	East Side Narrows	1.94
3	460 0162 511 3177	West Pad North (Battery Point)	1.69
4	460 0227 511 3140	West Pad South (Battery Point)	1.97
<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>It has been reported to QA, that a background level of 7.39NTU is acceptable to use on element TP6A. As such, a reportable event would be a concentration downstream greater than 15.39 NTU.</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
	October 19, 2011		October 20, 2011

**STPA PROJECT ELEMENT TP6A: FLOW DIVERSION
IQAC SITE TESTING SUMMARY**

Date:	October 27, 2011	IQAC On-Site Rep:	Enzo Poloni
Relevant Project Specification(s)	Environmental Quality Assurance	Relevant Project Specification(s) No.	QA-EPP Project No. 121410955.225
IQAC Item No(s) / Descriptions	ENV-T-02	Time On-Site:	11:20
Weather:	Overcast, 7°C		
Area Tested/Inspected:	TP6A – Narrows and Battery Point		
Inspection / Testing Summary			
<p>Stantec onsite at 11:20am for Battery Point West (2) behind CBRM WTP, then onsite for East Battery Point (2) and then the Narrows (2). Activities noted as side casting (slag) West Battery Point and out-flow chamber pumping on East Battery Point. Samples analyzed at Stantec lab.</p>			
Sample #	GPS Co-ordinates (NAD 83 – Northing/Easting)	General Site Description	Sample Results (NTU)
1	460 0154 511 3315	East Side Narrows	2.37
2	460 0130 511 3288	West Side Narrows	2.19
3	460 0192 511 3155	East Side Battery Point	2.50
4	460 0178 511 3154	West Side Battery Point	2.32
5	460 0553 511 3159	West Pad North (Battery Point)	2.77
6	460 0545 511 3122	West Pad South (Battery Point)	2.93
<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>It has been reported to QA, that a background level of 7.39NTU is acceptable to use on element TP6A. As such, a reportable event would be a concentration downstream greater than 15.39 NTU.</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
	October 27, 2011		October 27, 2011



Stantec Consulting Ltd

207-201 Churchill Drive, Membertou, NS B1S 0H1
(TEL) 902-564-1855 (FAX) 902-564-8756

CCIL CERTIFIED LABORATORY FOR TESTING CONCRETE

CONCRETE TEST REPORT

Stantec

PROJECT 1410955.225
CLIENT Sydney Tar Ponds Agency
C.C.

TO
Sydney Tar Ponds Agency
1 Inglis Street, PO Box 1028
Sydney, NS
B1P 6J7

ATTN: Ms. Diane Ingraham

PROJECT Sydney Tar Ponds
Element TP6A

Sydney Tar Ponds
Sydney

SET NO. 26

NO. OF 3

DATE 2011.Oct.26

DATE 2011.Oct.25

SPCM NO.	SPECIMEN TYPE	CURE CONDN	DATE TESTED	AGE AT TEST (DAYS)	AVERAGE DIAMETER (mm) OR SIDE (mm x mm)	AVERAGE LENGTH OR SPAN (mm)	MAXIMUM LOAD (kN)	COMPRESSIVE OR FLEXURAL STRENGTH (MPa) Average	FAILURE TYPE
A	Cylinder	Lab	Nov.01	7	100.0	200.0	254	32.3	ZZZ
B	Cylinder	Lab	Nov.22	28	100.0	200.0	324	41.3	
C	Cylinder	Lab	Nov.22	28	100.0	200.0	320	40.7 41.0	

SPECIFIED STRENGTH 30 MPa @ 28 DAYS

CEMENT TYPE GU

MAXIMUM SIZE AGGREGATE 20 mm

BATCH TIME 10:27

ADMIXTURES

SUPPLIER Municipal Ready Mix

TRUCK NO. 11 **TICKET NO.** 75945

LOAD VOL. 6 m³ **CUM. VOL.** 6 m³

WATER ADDED 1 **AUTH. BY** N/A

Page 1 of 1 2011.Dec.19

CONCRETE 17.0 °C
AIR TEMPERATURE 10.0 °C
SLUMP 75 mm **SPEC.** 75 ±
AIR 6.2 % **SPEC.** 6.5 ± 1.5

CAST TIME 11:25
CAST BY SYD DC
CURING CONDITIONS Curing box

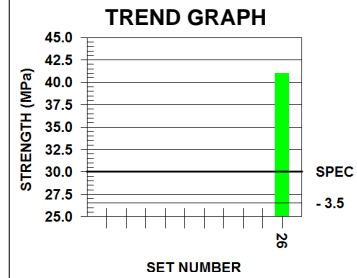
INITIAL CURING TEMP:MAXIMUM 17.0 °C **MINIMUM** 16.0 °C

LOCATION
Mud slab for dissipation structure.

COMMENTS
On Site Inspection By Derek Corbett.
Spec Slump: 75 mm maximum

Stantec Consulting Ltd

PER.



MOULD TYPE PLASTIC

Monthly Noise QA Testing Summary Table

Contractor:	MBJV	Client:	STPA	Form Number:	TP6A Noise OCTOBER 2011
Element:	TP6A	Oversight:	AECOM/CBCL	Project:	Remediation of the Tar Ponds and Coke Ovens Sites
Month:	OCTOBER 2011	IQAC:	Stantec		

SPECIFIED REQUIREMENTS					RESULTS							NOTES
Spec Section	Spec Description	Test Type	Standard	QA Frequency	Date Collected	Criteria	QA Sample ID	Sample Location GPS Coordinates NAD 83	QA Test Result	QA Pass/Fail	QA Frequency Met? Y/N	QA
EPP	ENV-T-01	Noise	CBRM Noise By-Law & NSE Criteria	once per month	11-Oct-11	<65 dBA	TP6A-10-11-2011-0830-1036	460 1242 511 2827	56.5dBA	Pass	Y	Sample location is at McNally Site Trailer. Traffic mobilizing on and off site at TP2.
EPP	ENV-T-01	Noise	CBRM Noise By-Law & NSE Criteria	once per month	11-Oct-11	<65 dBA	TP6A-10-11-2011-1045-1246	460 1588 511 2477	54.8dBA	Pass	Y	Sample location is at Coke Oven Brook Laydown Area. Pumps not running. Minimal contractor presence. Same HAZCO operations overlap. Road traffic.
EPP	ENV-T-01	Noise	CBRM Noise By-Law & NSE Criteria	once per month	11-Oct-11	<65 dBA	TP6A-10-11-2011-1253-1458	460 0573 511 3217	49.8dBA	Pass	Y	Sample location is at East Access Road to Battery Point beyond Narrows. Traffic for multiple contractors from Narrows to Battery Point.

Activities onsite at the time of the sampling events include pump and environmental control maintenance.



Stantec Consulting Ltd.
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Membertou, NS B1S 0H1
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Stantec

December 15, 2011
File: 121410955.225

Sydney Tar Ponds Agency
1 Inglis Street
PO Box 1028, Stn. 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 TP6A, Sydney Tar Ponds Project, Sydney, NS
Review of Contractor's October 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 (MB2/Beaver Joint Venture (MBJV) and their quality control consultant (exp Services Inc. (exp)) Monthly Quality Control (QC) Report for the month of October 2011 for project Element TP6A.

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:

SOILS/CONCRETE/MATERIALS TESTING

Level 2	This monthly report including concrete reports and QC/QC summary table list concrete slump limits to be 75 ± 25 mm. However, revised Drawings of Battery Point dated October 19, 2011 limit the slump to 75 mm Max. Accordingly, on October 25, 2011, two out of four tested placements did not meet the slump requirement.
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This report covers the quality control aspects for both the geotechnical and concrete/materials portions of the project.

December 15, 2011

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

Page 2 of 2

**Reference: Materials and Geotechnical Quality Assurance of Quality Control Program
Element TP6A, Sydney Tar Ponds Project, Sydney, NS
Review of Contractor's October 2011 Quality Control (QC) Report**

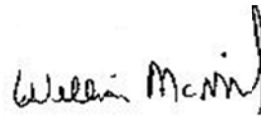
We trust this information meets your present needs. If you have any questions, or if we can be of further assistance, please do not hesitate to contact us at your convenience.

Sincerely,

STANTEC CONSULTING LTD



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



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



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Stantec

January 3, 2012
 File: 121410955.225

Sydney Tar Ponds Agency
 1 Inglis Street
 PO Box 1028, Stn. 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 TP6A, Sydney Tar Ponds Project, Sydney, NS
 Review of Contractor's October 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, MB2/Beaver Marine Joint Venture (MBJV) and their quality control consultant (Exp Services Inc. (exp)), Monthly Quality Control (QC) Report for the month of October 2011 for project element TP6A.

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 comment for your consideration:

ENVIRONMENTAL INSPECTIONS/TESTING

<u>Quality Control (QC) and Quality Assurance (QA) Environmental Testing Summary Table</u>	
Level 1	<p>October 5 and October 6 surface water measurements are all listed as a "Pass". However, based on 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>It has been reported to QA, that a background level of 7.39NTU is acceptable to use on element TP6A. As such, a reportable event would be a concentration downstream greater than 15.39 NTU.</p> <p>If a measurement greater than 15.39 NTU is observed, then upstream sampling is required so that the above criteria can be applied.</p>

January 3, 2012

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

Page 2 of 2

**Reference: Environmental Quality Assurance of Quality Control Program
Element TP6A, Sydney Tar Ponds Project, Sydney, NS
Review of Contractor's October 2011 Quality Control (QC) Report**

	<p>Based on the rationale provided in the EPP and QA calculations of the upstream sample measurements provided in the table, several sampling locations fail. Although the EILs indicate that the elevated levels of turbidity are likely attributed to high winds and rain over the past few days onsite, the failures should be better represented in the Table. Using one "Pass" to describe the results for ALL sampling locations is not representative of the a proper interpretation of the data.</p>
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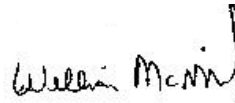
This report covers the quality control aspects for the environmental inspection/testing portions of the project. We trust this information meets your present needs. If you have any questions, or if we can be of further assistance, please do not hesitate to contact us at your convenience.

Sincerely,

STANTEC CONSULTING LTD



Tanya MacDonald
Environmental Manager
Tel: (902) 564-1855
Fax: (902) 564-8756
tanya.macdonald@stantec.com



Willie McNeil, B.Tech.(Env.), CET Manager,
Project Manager
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Quality Control (QC) and Quality Assurance (QA) Testing Summary Table

Weekly
 Monthly

From: 25-Sep-11 To: 29-Oct-11

Contractor:	MBJV	Client:	STPA	Form Number:	97918-QAF-059
Element:	TP-6A	Oversight:	AECOM/CBCL	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																			
Week 5																			
03 30 00	Cast-in-Place Concrete	Compressive Strength	CSA-A23.2	Per Pour	1 test or 20% of QC, whichever is greater	25-Oct-11	2011-X1	35 MPa	28-Oct-11	Pending	Pending	Pending	Set 26 25-Oct-11	22-Nov-11	41.0 MPa	Pass	Y		The compressive strength at 28 days met the 30.0 MPa specified strength.
03 30 00	Cast-in-Place Concrete	Slump	CSA-A23.2	Per Pour	1 test or 20% of QC, whichever is greater	25-Oct-11	2011-X1	75 ± 25 mm	28-Oct-11	70 mm	Pass	Y	Set 26 25-Oct-11	25-Oct-11	75 mm	Pass	Y		Specified Slump is 75 mm Max.
03 30 00	Cast-in-Place Concrete	Air Content	CSA-A23.2	Per Pour	1 test or 20% of QC, whichever is greater	25-Oct-11	2011-X1	5-8 %	28-Oct-11	6.40%	Pass	Y	Set 26 25-Oct-11	25-Oct-11	6.2%	Pass	Y		Specified Air Content is 5.0-8.0 %.
03 30 00	Cast-in-Place Concrete	Temperature	CSA-A23.2	Per Pour	1 test or 20% of QC, whichever is greater	25-Oct-11	2011-X1	Field Determination	28-Oct-11	17.0 °C	For Info Only	Y	Set 26 25-Oct-11	25-Oct-11	17.0° C	Pass	Y		Temperature refers to the temperature of fresh concrete prior to placement.
03 30 00	Cast-in-Place Concrete	Temperature Monitoring	CSA-A23.2	Per Pour		See QC Note	2011-X1	See QC Note	See QC Note	See QC Note	See QC Note	See QC Note							Temperature monitoring was not required as confirmed on-site by the DE.

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

Weekly
 Monthly

From: 2011-09-25 To: 2011-10-29

Contractor:	MBJV	Client:	STPA	Form Number:	97918-QAF-073
Element:	TP6A	Oversight:	AECOM/CBCL	Project:	Remediation of the Tar Ponds and Coke Ovens Sites
		IQAC:	Stantec		

Note: This summary table shall be submitted with the Contractor's Monthly QC Report only after all revisions are made to the data here contained based on any DE Environmental comments of the information submitted weekly.

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																			
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-09-25	TP6A-97919-Narrows E-0730-2011-09-25 TP6A-97919-Narrows W-0730-2011-09-25	As per EPP	2011-09-25	2.1 NTU 2.2 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-09-25	TP6A-97919-Narrows E-1130-2011-09-25 TP6A-97919-Narrows W-1130-2011-09-25	As per EPP	2011-09-25	3.2 NTU 3.5 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-09-26	TP6A-97919-Narrows E-0730-2011-09-26 TP6A-97919-Narrows W-0730-2011-09-26	As per EPP	2011-09-26	3.7 NTU 3.2 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-09-26	TP6A-97919-Narrows E-1130-2011-09-26 TP6A-97919-Narrows W-1130-2011-09-26	As per EPP	2011-09-26	3.0 NTU 2.9 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-09-27	TP6A-97919-Narrows E-0730-2011-09-27 TP6A-97919-Narrows W-0730-2011-09-27	As per EPP	2011-09-27	2.7 NTU 2.1 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-09-27	TP6A-97919-Narrows E-1130-2011-09-27 TP6A-97919-Narrows W-1130-2011-09-27	As per EPP	2011-09-27	3.6 NTU 2.9 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-09-28	TP6A-97919-Narrows E-0730-2011-09-28 TP6A-97919-Narrows W-0730-2011-09-28	As per EPP	2011-09-28	3.9 NTU 3.7 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-01	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Once Weekly		2011-09-28	TP6A-97919-Site Trailer-2011-09-28 TP6A-97919-COB -2011-09-28 TP6A-97919-Narrows-2011-09-28	CBRM noise by-law and NSE criteria	2011-09-28	53.4 L _{eq} (dBA) 54.7 L _{eq} (dBA) 58.3 L _{eq} (dBA)	Pass Pass Pass	Y						Samples collected as per EPP. A minimum of 2hr sample duration in three locations along the perimeter. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-09-28	TP6A-97919-Narrows E-1130-2011-09-28 TP6A-97919-Narrows W-1130-2011-09-28	As per EPP	2011-09-28	2.0 NTU 3.0 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-09-29	TP6A-97919-Narrows E-0730-2011-09-29 TP6A-97919-Narrows W-0730-2011-09-29	As per EPP	2011-09-29	2.2 NTU 2.6 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours	Once Weekly	2011-09-29	TP6A-97919-Narrows E-1130-2011-09-29 TP6A-97919-Narrows W-1130-2011-09-29	As per EPP	2011-09-29	2.4 NTU 2.6 NTU	Pass	Y	TP6A-09-29-2011-EastNarrows TP6A-09-29-2011-WestNarrows	29-Sep-11	1.21 NTU 1.16 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.
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-09-30	TP6A-97919-Narrows E-0730-2011-09-30 TP6A-97919-Narrows W-0730-2011-09-30	As per EPP	2011-09-30	3.2 NTU 2.9 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-09-30	TP6A-97919-Narrows E-1130-2011-09-30 TP6A-97919-Narrows W-1130-2011-09-30	As per EPP	2011-09-30	3.3 NTU 3.7 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-01	TP6A-97919-Narrows E-0730-2011-10-01 TP6A-97919-Narrows W-0730-2011-10-01	As per EPP	2011-10-01	5.4 NTU 4.3 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-01	TP6A-97919-Narrows E-1130-2011-10-01 TP6A-97919-Narrows W-1130-2011-10-01	As per EPP	2011-10-01	7.4 NTU 4.1 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
Week 2																			
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-02	TP6A-97919-Narrows E-0730-2011-10-02 TP6A-97919-Narrows W-0730-2011-10-02	As per EPP	2011-10-02	4.8 NTU 4.0 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-02	TP6A-97919-Narrows E-1130-2011-10-02 TP6A-97919-Narrows W-1130-2011-10-02	As per EPP	2011-10-02	4.3 NTU 4.6 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-03	TP6A-97919-Narrows E-0730-2011-10-03 TP6A-97919-Narrows W-0730-2011-10-03	As per EPP	2011-10-03	6.1 NTU 5.1 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-03	TP6A-97919-Narrows E-1130-2011-10-03 TP6A-97919-Narrows W-1130-2011-10-03	As per EPP	2011-10-03	4.1 NTU 3.2 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-04	TP6A-97919-Narrows E-0730-2011-10-04 TP6A-97919-Narrows W-0730-2011-10-04	As per EPP	2011-10-04	3.7 NTU 2.7 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-01	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Once Weekly		2011-10-04	TP6A-97919-Site Trailer-2011-10-04 TP6A-97919-COB -2011-10-04 TP6A-97919-Narrows-2011-10-04	CBRM noise by-law and NSE criteria	2011-10-04	54.4 L _{eq} (dBA) 57.1 L _{eq} (dBA) 52.6 L _{eq} (dBA)	Pass Pass Pass	Y						Samples collected as per EPP. A minimum of 2hr sample duration in three locations along the perimeter. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-04	TP6A-97919-Narrows E-1130-2011-10-04 TP6A-97919-Narrows W-1130-2011-10-04	As per EPP	2011-10-04	2.6 NTU 2.5 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-05	TP6A-97919-Narrows E-0730-2011-10-05 TP6A-97919-Narrows W-0730-2011-10-05 TP6A-97919-COB-0745-2011-10-05 TP6A-97919-WB-0745-2011-10-05 TP6A-97919-Narrows E-0930-2011-10-05 TP6A-97919-Narrows W-0930-2011-10-05 TP6A-97919-Battery Point E-0930-2011-10-05 TP6A-97919-Battery Point W-0930-2011-10-05 TP6A-97919-COB-0930-2011-10-05 TP6A-97919-WB-0930-2011-10-05	As per EPP	2011-10-05	50.6 NTU 33.5 NTU 121.0 NTU 59.2 NTU 112.0 NTU 68.7 NTU 32.4 NTU 31.2 NTU 20.0 NTU 62.9 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) Environmental Testing Summary Table

Weekly
 Monthly

From: 2011-09-25 To: 2011-10-29

Contractor:	MBJV	Client:	STPA	Form Number:	97918-QAF-073
Element:	TP6A	Oversight:	AECOM/CBCL	Project:	Remediation of the Tar Ponds and Coke Ovens Sites
		IQAC:	Stantec		

Note: This summary table shall be submitted with the Contractor's Monthly QC Report only after all revisions are made to the data here contained based on any DE Environmental comments of the information submitted weekly.

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
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours	Once Weekly	2011-10-05	TP6A-97919-Narrows E-1130-2011-10-05 TP6A-97919-Narrows W-1130-2011-10-05 TP6A-97919-Battery Point E-1130-2011-10-05 TP6A-97919-Battery Point W-1130-2011-10-05 TP6A-97919-COB-1145-2011-10-05 TP6A-97919-WB-1145-2011-10-05 TP6A-97919-Narrows E-1330-2011-10-05 TP6A-97919-Narrows W-1330-2011-10-05 TP6A-97919-Battery Point E-1330-2011-10-05 TP6A-97919-Battery Point W-1330-2011-10-05 TP6A-97919-COB-1345-2011-10-05 TP6A-97919-WB-1345-2011-10-05 TP6A-97919-Narrows E-1445-2011-10-05 TP6A-97919-Narrows W-1445-2011-10-05 TP6A-97919-Battery Point E-1445-2011-10-05 TP6A-97919-Battery Point W-1445-2011-10-05 TP6A-97919-COB-1500-2011-10-05 TP6A-97919-WB-1500-2011-10-05	As per EPP	2011-10-05	47.6 NTU 42.3 NTU 35.2 NTU 34.3 NTU 18.7 NTU 31.9 NTU 25.3 NTU 22.7 NTU 30.7 NTU 31.4 NTU 24.1 NTU 18.9 NTU 34.4 NTU 27.9 NTU 30.8 NTU 32.0 NTU 17.9 NTU 14.4 NTU	Pass	Y	TP6A-10-05-2011-EastNarrows TP6A-10-05-2011-WestNarrows TP6A-10-05-2011-EastBatteryPoint TP6A-10-05-2011-WestBatteryPoint TP6A-10-05-2011-CokeOvensBrook TP6A-10-05-2011-WashBrook	5-Oct-11	29.1 NTU 26.5 NTU 21.2 NTU 20.0 NTU 9.85 NTU 14.0 NTU	Fail Fail Pass Pass 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.
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-06	TP6A-97919-Narrows E-0730-2011-10-06 TP6A-97919-Narrows W-0730-2011-10-06 TP6A-97919-Battery Point E-0730-2011-10-06 TP6A-97919-Battery Point W-0730-2011-10-06 TP6A-97919-COB-0745-2011-10-06 TP6A-97919-WB-0745-2011-10-06 TP6A-97919-Narrows E-0930-2011-10-06 TP6A-97919-Narrows W-0930-2011-10-06 TP6A-97919-Battery Point E-0930-2011-10-06 TP6A-97919-Battery Point W-0930-2011-10-06 TP6A-97919-COB-0930-2011-10-06 TP6A-97919-WB-0930-2011-10-06	As per EPP	2011-10-06	22.8 NTU 24.1 NTU 11.2 NTU 9.6 NTU 6.0 NTU 8.0 NTU 22.0 NTU 24.9 NTU 16.1 NTU 13.3 NTU 5.7 NTU 6.5 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-06	TP6A-97919-Narrows E-1130-2011-10-06 TP6A-97919-Narrows W-1130-2011-10-06 TP6A-97919-Battery Point E-1130-2011-10-06 TP6A-97919-Battery Point W-1130-2011-10-06 TP6A-97919-Narrows E-1330-2011-10-06 TP6A-97919-Narrows W-1330-2011-10-06 TP6A-97919-Battery Point E-1330-2011-10-06 TP6A-97919-Battery Point W-1330-2011-10-06 TP6A-97919-Narrows E-1445-2011-10-06 TP6A-97919-Narrows W-1445-2011-10-06 TP6A-97919-Battery Point E-1445-2011-10-06 TP6A-97919-Battery Point W-1445-2011-10-06	As per EPP	2011-10-06	28.4 NTU 67.0 NTU 15.5 NTU 11.9 NTU 21.0 NTU 38.8 NTU 13.9 NTU 8.6 NTU 19.0 NTU 27.8 NTU 6.6 NTU 7.7 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-07	TP6A-97919-Narrows E-0730-2011-10-07 TP6A-97919-Narrows W-0730-2011-10-07	As per EPP	2011-10-07	7.1 NTU 6.6 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-07	TP6A-97919-Narrows E-1130-2011-10-07 TP6A-97919-Narrows W-1130-2011-10-07	As per EPP	2011-10-07	5.5 NTU 5.9 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-08	TP6A-97919-Narrows E-0730-2011-10-08 TP6A-97919-Narrows W-0730-2011-10-08	As per EPP	2011-10-08	4.1 NTU 3.3 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-08	TP6A-97919-Narrows E-1130-2011-10-08 TP6A-97919-Narrows W-1130-2011-10-08	As per EPP	2011-10-08	4.4 NTU 4.0 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
Week 3																			
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-09	TP6A-97919-Narrows E-0730-2011-10-09 TP6A-97919-Narrows W-0730-2011-10-09	As per EPP	2011-10-09	3.1 NTU 3.3 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-09	TP6A-97919-Narrows E-1130-2011-10-09 TP6A-97919-Narrows W-1130-2011-10-09	As per EPP	2011-10-09	3.3 NTU 2.8 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-10	TP6A-97919-Narrows E-0730-2011-10-10 TP6A-97919-Narrows W-0730-2011-10-10	As per EPP	2011-10-10	3.1 NTU 2.6 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-10	TP6A-97919-Narrows E-1130-2011-10-10 TP6A-97919-Narrows W-1130-2011-10-10	As per EPP	2011-10-10	2.3 NTU 2.4 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-11	TP6A-97919-Narrows E-0730-2011-10-11 TP6A-97919-Narrows W-0730-2011-10-11	As per EPP	2011-10-11	3.2 NTU 2.9 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-01	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Once Weekly	Once Monthly	2011-10-11	TP6A-97919-Site Trailer-2011-10-11 TP6A-97919-COB-2011-10-11 TP6A-97919-Narrows-2011-10-11	CBRM noise by-law and NSE criteria	2011-10-11	55.6 L _{eq} (dBA) 55.8 L _{eq} (dBA) 51.1 L _{eq} (dBA)	Pass Pass Pass	Y	TP6A-10-11-2011-0830-1036 TP6A-10-11-2011-1045-1246 TP6A-10-11-2011-1253-1458	11-Oct-11	56.5 L _{eq} (dBA) 54.8 L _{eq} (dBA) 49.8 L _{eq} (dBA)	Pass Pass Pass	Yes	Samples collected as per EPP. A minimum of 2hr sample duration in three locations along the perimeter. Please refer to the daily EIL for specific testing results.	Samples collected as per EPP. Refer to Monthly Noise QA Testing Summary Table in this report for more information.
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-11	TP6A-97919-Narrows E-1130-2011-10-11 TP6A-97919-Narrows W-1130-2011-10-11	As per EPP	2011-10-11	2.6 NTU 2.9 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-11	TP6A-97919-Narrows E-1530-2011-10-11 TP6A-97919-Narrows W-1530-2011-10-11	As per EPP	2011-10-11	3.3 NTU 4.2 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-12	TP6A-97919-Narrows E-0730-2011-10-12 TP6A-97919-Narrows W-0730-2011-10-12	As per EPP	2011-10-12	2.7 NTU 2.3 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-12	TP6A-97919-Narrows E-1130-2011-10-12 TP6A-97919-Narrows W-1130-2011-10-12	As per EPP	2011-10-12	3.1 NTU 2.8 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-13	TP6A-97919-Narrows E-0730-2011-10-13 TP6A-97919-Narrows W-0730-2011-10-13	As per EPP	2011-10-13	2.5 NTU 3.3 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) Environmental Testing Summary Table

Weekly
 Monthly

From: 2011-09-25 To: 2011-10-29

Contractor:	MBJV	Client:	STPA	Form Number:	97918-QAF-073
Element:	TP6A	Oversight:	AECOM/CBCL	Project:	Remediation of the Tar Ponds and Coke Ovens Sites
		IQAC:	Stantec		

Note: This summary table shall be submitted with the Contractor's Monthly QC Report only after all revisions are made to the data here contained based on any DE Environmental comments of the information submitted weekly.

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
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours	Once Weekly	2011-10-13	TP6A-97919-Narrows E-1130-2011-10-13 TP6A-97919-Narrows W-1130-2011-10-13	As per EPP	2011-10-13	3.6 NTU 3.7 NTU	Pass	Y	TP6A-10-13-2011-EastNarrows TP6A-10-13-2011-WestNarrows	13-Oct-11	1.50 NTU 1.45 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.
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-14	TP6A-97919-Narrows E-0730-2011-10-14 TP6A-97919-Narrows W-0730-2011-10-14	As per EPP	2011-10-14	2.9 NTU 2.8 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-14	TP6A-97919-Narrows E-1130-2011-10-14 TP6A-97919-Narrows W-1130-2011-10-14	As per EPP	2011-10-14	2.6 NTU 2.2 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-15	TP6A-97919-Narrows E-0730-2011-10-15 TP6A-97919-Narrows W-0730-2011-10-15 TP6A-97919-COB -0745-2011-10-15 TP6A-97919-WB -0745-2011-10-15	As per EPP	2011-10-15	26.2 NTU 24.4 NTU 35.8 NTU 12.5 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-15	TP6A-97919-Narrows E-1130-2011-10-15 TP6A-97919-Narrows W-1130-2011-10-15	As per EPP	2011-10-15	13.0 NTU 13.5 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
Week 4																			
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-16	TP6A-97919-Narrows E-0730-2011-10-16 TP6A-97919-Narrows W-0730-2011-10-16	As per EPP	2011-10-16	3.7 NTU 4.4 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-16	TP6A-97919-Narrows E-1130-2011-10-16 TP6A-97919-Narrows W-1130-2011-10-16	As per EPP	2011-10-16	3.6NTU 3.5 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-17	TP6A-97919-Narrows E-0730-2011-10-17 TP6A-97919-Narrows W-0730-2011-10-17	As per EPP	2011-10-17	3.2 NTU 3.7 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-17	TP6A-97919-Narrows E-1130-2011-10-17 TP6A-97919-Narrows W-1130-2011-10-17	As per EPP	2011-10-17	2.8 NTU 2.6 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-18	TP6A-97919-Narrows E-0730-2011-10-18 TP6A-97919-Narrows W-0730-2011-10-18	As per EPP	2011-10-18	2.9 NTU 4.1 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-18	TP6A-97919-Narrows E-1130-2011-10-18 TP6A-97919-Narrows W-1130-2011-10-18 TP6A-97919-Battery Point E-1130-2011-10-18 TP6A-97919-Battery Point W-1130-2011-10-18	As per EPP	2011-10-18	3.3 NTU 3.7 NTU 2.8 NTU 3.0 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-19	TP6A-97919-Narrows E-0730-2011-10-19 TP6A-97919-Narrows W-0730-2011-10-19	As per EPP	2011-10-19	3.9 NTU 4.5 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours	Once Weekly	2011-10-19	TP6A-97919-Narrows E-1130-2011-10-19 TP6A-97919-Narrows W-1130-2011-10-19 TP6A-97919-BP West Pad N-1130-2011-10-19 TP6A-97919-BP West Pad S-1130-2011-10-19	As per EPP	2011-10-19	3.5 NTU 3.8 NTU 3.4 NTU 3.0 NTU	Pass	Y	TP6A-10-19-2011-EastNarrows TP6A-10-19-2011-WestNarrows TP6A-10-19-2011-WestPadNorth TP6A-10-19-2011-WestPadSouth	19-Oct-11	1.94 NTU 2.22 NTU 1.69 NTU 1.97 NTU	Pass Pass 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.
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-20	TP6A-97919-Narrows E-0730-2011-10-20 TP6A-97919-Narrows W-0730-2011-10-20 TP6A-97919-BP West Pad N-0730-2011-10-20 TP6A-97919-BP West Pad S-0730-2011-10-20	As per EPP	2011-10-20	3.7 NTU 4.1 NTU 3.4 NTU 3.3 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-01	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Once Weekly		2011-10-20	TP6A-97919-Site Trailer-2011-10-20 TP6A-97919-Narrows -2011-10-20 TP6A-97919-Battery Point-2011-10-20	CBRM noise by-law and NSE criteria	2011-10-20	55.5 L _{eq} (dBA) 55.5 L _{eq} (dBA) 61.7 L _{eq} (dBA)	Pass Pass Pass	Y						Samples collected as per EPP.A minimum of 2hr sample duration in three locations along the perimeter.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-20	TP6A-97919-Narrows E-1130-2011-10-20 TP6A-97919-Narrows W-1130-2011-10-20	As per EPP	2011-10-20	5.9 NTU 8.7 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-21	TP6A-97919-Narrows E-0730-2011-10-21 TP6A-97919-Narrows W-0730-2011-10-21 TP6A-97919-BP West Pad N-0730-2011-10-21 TP6A-97919-BP West Pad S-0730-2011-10-21	As per EPP	2011-10-21	14.0 NTU 14.4 NTU 10.5 NTU 10.6 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-21	TP6A-97919-Narrows E-1130-2011-10-21 TP6A-97919-Narrows W-1130-2011-10-21 TP6A-97919-BP West Pad N-1130-2011-10-21 TP6A-97919-BP West Pad S-1130-2011-10-21	As per EPP	2011-10-21	7.4 NTU 7.5 NTU 7.9 NTU 8.3 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-22	TP6A-97919-Narrows E-0730-2011-10-22 TP6A-97919-Narrows W-0730-2011-10-22	As per EPP	2011-10-22	4.8 NTU 4.4 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-22	TP6A-97919-Narrows E-1130-2011-10-22 TP6A-97919-Narrows W-1130-2011-10-22	As per EPP	2011-10-22	4.0 NTU 4.4 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
Week 5																			
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-23	TP6A-97919-Narrows E-0730-2011-10-23 TP6A-97919-Narrows W-0730-2011-10-23	As per EPP	2011-10-23	3.3 NTU 3.4 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-23	TP6A-97919-Narrows E-1130-2011-10-23 TP6A-97919-Narrows W-1130-2011-10-23	As per EPP	2011-10-23	3.1 NTU 4.1 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-24	TP6A-97919-Narrows E-0730-2011-10-24 TP6A-97919-Narrows W-0730-2011-10-24	As per EPP	2011-10-24	2.7 NTU 2.8 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-24	TP6A-97919-Narrows E-1130-2011-10-24 TP6A-97919-Narrows W-1130-2011-10-24 TP6A-97919-Battery Point E-1130-2011-10-24 TP6A-97919-Battery Point W-1130-2011-10-24	As per EPP	2011-10-24	3.4 NTU 3.7 NTU 6.2 NTU 5.8 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-25	TP6A-97919-Narrows E-0730-2011-10-25 TP6A-97919-Narrows W-0730-2011-10-25 TP6A-97919-Battery Point E-0730-2011-10-25 TP6A-97919-Battery Point W-0730-2011-10-25	As per EPP	2011-10-25	3.5 NTU 3.4 NTU 3.0 NTU 2.9 NTU	Pass	Y						Samples were collected in accordance with the EPP.Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-25	TP6A-97919-Narrows E-1130-2011-10-25 TP6A-97919-Narrows W-1130-2011-10-25 TP6A-97919-Battery Point E-1130-2011-10-25 TP6A-97919-Battery Point W-1130-2011-10-25	As per EPP	2011-10-25	4.0 NTU 3.7 NTU 3.0 NTU 3.6 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) Environmental Testing Summary Table

Weekly
 Monthly

From: 2011-09-25 To: 2011-10-29

Contractor:	MBJV	Client:	STPA	Form Number:	97918-QAF-073
Element:	TP6A	Oversight:	AECOM/CBCL	Project: Remediation of the Tar Ponds and Coke Ovens Sites	
		IQAC:	Stantec		

Note: This summary table shall be submitted with the Contractor's Monthly QC Report only after all revisions are made to the data here contained based on any DE Environmental comments of the information submitted weekly.

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
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-26	TP6A-97919-Narrows E-0730-2011-10-26 TP6A-97919-Narrows W-0730-2011-10-26	As per EPP	2011-10-26	9.2 NTU 8.2 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-26	TP6A-97919-Narrows E-1130-2011-10-26 TP6A-97919-Narrows W-1130-2011-10-26 TP6A-97919-BP West Pad N-1130-2011-10-26 TP6A-97919-BP West Pad S-1130-2011-10-26	As per EPP	2011-10-26	10.6 NTU 11.6 NTU 7.3 NTU 6.5 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-27	TP6A-97919-Narrows E-0730-2011-10-27 TP6A-97919-Narrows W-0730-2011-10-27 TP6A-97919-BP West Pad N-0730-2011-10-27 TP6A-97919-BP West Pad S-0730-2011-10-27	As per EPP	2011-10-27	5.0 NTU 7.1 NTU 4.6 NTU 4.4 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-01	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Once Weekly		2011-10-27	TP6A-97919-Site Trailer-2011-10-27 TP6A-97919-Narrows -2011-10-27 TP6A-97919-Battery Point-2011-10-27	CBRM noise by-law and NSE criteria	2011-10-27	52.9 L _{eq} (dBA) 58.4 L _{eq} (dBA) 65.6 L _{eq} (dBA)	Pass Pass Fail	N						Samples collected as per EPP. A minimum of 2hr sample duration in three locations along the perimeter. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours	Once Weekly	2011-10-27	TP6A-97919-Narrows E-1130-2011-10-27 TP6A-97919-Narrows W-1130-2011-10-27 TP6A-97919-Battery Point E-1130-2011-10-27 TP6A-97919-Battery Point W-1130-2011-10-27 TP6A-97919-BP West Pad N-1130-2011-10-27 TP6A-97919-BP West Pad S-1130-2011-10-27	As per EPP	2011-10-27	4.3 NTU 3.8 NTU 3.8 NTU 4.2 NTU 4.6 NTU 4.4 NTU	Pass	Y	TP6A-10-27-2011-EastNarrows TP6A-10-27-2011-WestNarrows TP6A-10-27-2011-EastBatteryPoint TP6A-10-27-2011-WestBatteryPoint TP6A-10-27-2011-WestPadNorth TP6A-10-27-2011-WestPadSouth	27-Oct-11	2.37 NTU 2.19 NTU 2.50 NTU 2.32 NTU 2.77 NTU 2.93 NTU	Pass Pass Pass Pass 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.
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-28	TP6A-97919-Narrows E-0730-2011-10-28 TP6A-97919-Narrows W-0730-2011-10-28 TP6A-97919-Battery Point E-0730-2011-10-28 TP6A-97919-Battery Point W-0730-2011-10-28	As per EPP	2011-10-28	3.8 NTU 3.6 NTU 3.3 NTU 2.7 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-28	TP6A-97919-Narrows E-1130-2011-10-28 TP6A-97919-Narrows W-1130-2011-10-28 TP6A-97919-BP West Pad N-1130-2011-10-28 TP6A-97919-BP West Pad S-1130-2011-10-28	As per EPP	2011-10-28	3.9 NTU 5.1 NTU 2.4 NTU 3.0 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-29	TP6A-97919-Narrows E-0730-2011-10-29 TP6A-97919-Narrows W-0730-2011-10-29	As per EPP	2011-10-29	6.7 NTU 7.2 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-10-29	TP6A-97919-Narrows E-1130-2011-10-29 TP6A-97919-Narrows W-1130-2011-10-29	As per EPP	2011-10-29	4.1 NTU 4.3 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	



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Stantec

December 13, 2011
File: 121410955.225

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 TP6A
Independent Quality Assurance (IQAC) October 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) October 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



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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

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Project Manager
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