



Stantec

Stantec Consulting Ltd
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October 12, 2012
File: 121410955.215

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

Attention: Mr. Claude Goora, P.Eng. , PMP, Quality Contracts Manager

Dear Mr. Goora:

**Reference: STPA Project Element TP7 – North & South Tar Ponds Surface Cap
IQAC – June 2012 Monthly Summary Report**

At the request of Sydney Tar Ponds Agency (STPA), Stantec Consulting Ltd. (hereafter Stantec) acting as the Independent Quality Assurance Consultant (IQAC) has completed the following quality assurance inspection/testing services and meetings in accordance with the project requirements at the above mentioned project element between June 1 and June 30, 2012:

- Project Item PM-01: Seven daily field reports.
- Project Item PM-03: One monthly report (June 2012) completed by Stantec in the month of October 2012.
- Project Item PM-04: Two site meetings were attended on June 14 and 28, 2012.
- Project Item PM-05: Other meetings and frequent opinions and emails were provided by Stantec in the month of June 2012.
- Project Item QCP-02: Submittal reviews (June 2012 QC monthly/daily and testing/inspection reports).
- Project Item TS-112: Completed four site visits on June 11, 13, 18 and 29, 2012 to assess the compaction of placed protective and/or low permeable fills. All compaction readings met the specified 95% minimum compaction criterion. Also, on June 13, 2012, one Shelby tube sample was extracted from the placed material to perform hydraulic conductivity testing. All test results are included in this monthly report and summarized in the QC/QA Summary Table section.
- Project Item ENV-T-01: One noise monitoring event on June 13, 2012. All readings recorded were within the acceptable range. See Monthly Noise QA Testing Summary table in this report for further information.
- Project Item ENV-T-02: Four (4) surface water (turbidity) sampling events. All measurements recorded were within the acceptable range.

October 12, 2012

Mr. Claude Goora, P.Eng. , PMP, Quality Contracts Manager

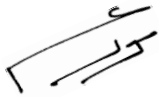
Page 2 of 2

**Reference: STPA Project Element TP7 – North & South Tar Ponds Surface Cap
IQAC – June 2012 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



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

A handwritten signature in black ink, appearing to read "Willie McNeil".

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

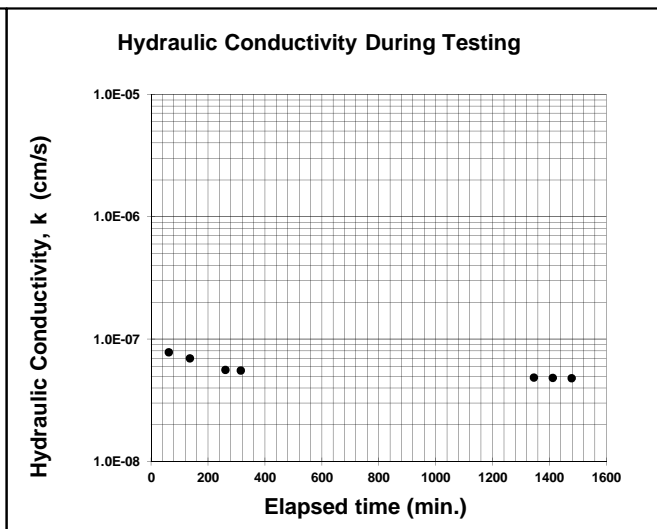
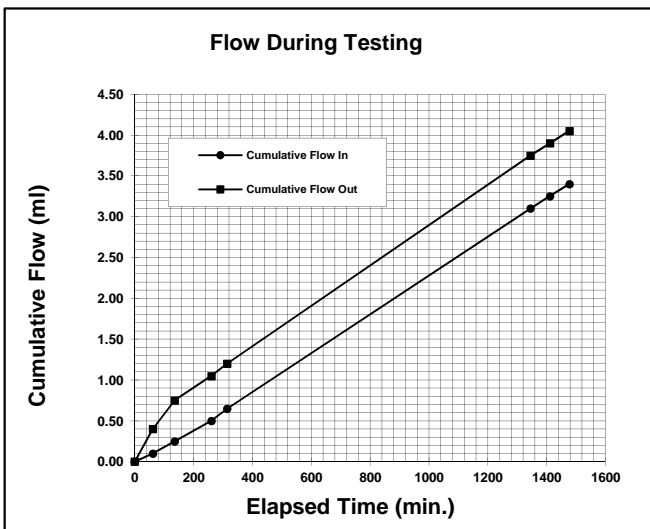
FLEXIBLE WALL HYDRAULIC CONDUCTIVITY TEST REPORT

(ASTM D5084-03 Modified)

CLIENT: Sydney Tar Ponds Agency	STANTEC PROJECT No.: 121410955
PROJECT TITLE: Element TP 7	DATE: June 14, 2012
SAMPLE DESCRIPTION: Protective Fill	SAMPLE No.: TP7-13JUN12-Cohesive Backfill-SA-A

INITIAL SAMPLE DATA	FINAL SAMPLE DATA
Length (cm) 9.66	Length (cm) 9.66
Diameter (cm) 6.88	Diameter (cm) 6.88
Area (cm ²) 37.18	Area (cm ²) 37.18
Total Mass (g) 778.8	Total Mass (g) 788.7
Volume (cm ³) 359.1	Volume (cm ³) 359.1
Water Content (%) 11.2	Water Content (%) 15.2
Degree of Saturation (%) 81.2	Degree of Saturation (%) 101.7
Wet Density (g/cm ³) 2.169	Wet Density (g/cm ³) 2.196
Dry Density(g/cm ³) 1.950	Dry Density(g/cm ³) 1.906
Assumed Specific Gravity 2.67	

CONSOLIDATION PHASE	HYDRAULIC CONDUCTIVITY PHASE
Cell Pressure(kPa) 380	Cell Pressure (kPa) 420
Top Cap Pressure(kPa) 360	Top Cap Pressure (kPa) 370
Bottom Cap Pressure(kPa) 360	Bottom Cap Pressure(kPa) 390
Consolidation Pressure(kPa) 20	Hydraulic Gradient 21.1



HYDRAULIC CONDUCTIVITY= 5.80E-08 cm/s

Comments:

Test specimen met the specified maximum Hydraulic Conductivity.

Note: Section 31 22 16 of the Project Specifications requires a maximum Hydraulic Conductivity of 1×10^{-6} cm/s (1×10^{-7} cm/s for low permeable fill).

Tested By: Blair MacVicar, B.Tech





Date: 21-Jun-12

Checked By: Rabi Morelly, M.Sc., P.Eng.





Date: 21-Jun-12

**STPA PROJECT ELEMENT TP7: North & South Tar Ponds Surface Cap
IQAC SITE TESTING SUMMARY**

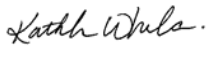

Date:	June 8, 2012	IQAC On-Site Rep:	Kathleen Whelan
Relevant Project Specification(s)	Environmental Quality Assurance	Relevant Project Specification(s) No.	QA-EPP Project No. 121410955.215
IQAC Item No(s) / Descriptions	ENV-T-02	Time On-Site:	1530
Weather:	Clear, 17°C ENE @7km		
Area Tested/Inspected:	TP7 – North/South Pond Channel		
Inspection / Testing Summary			
Met the contractor by the Narrows at 335 to sample downstream location. We then proceeded to midstream, upstream and coke ovens brook sampling locations. No issues were noted. Contractor activities for the day included excavating in phase I (Digging up roads/slag) and hauling clay to Phase III channel. Testing was completed onsite after each sample was taken.			
Sample #	GPS Co-ordinates (NAD 83 – Northing/Easting)	General Site Description	Sample Results (NTU)
1	460 0825 511 2992	Main Channel Downstream	2.19
2	460 1004 511 2776	Main Channel Midstream	1.94
3	460 1262 511 2358	Main Channel Upstream	1.77
4	460 1690 511 2450	Coke Ovens Brook Upstream	2.55
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>The four Turbidity values recorded above are within acceptable levels.</i>			
IQAC Review and Acceptance			
IQAC On-Site Rep (Sign/Print/Date):	 /Kathleen Whelan, B.Tech. (Env)	IQAC Management Review (Sign/Print/Date):	 /Jamie Tunnicliff, B.Sc., B.Eng.
	June 8, 2012		June 11, 2012

STPA PROJECT ELEMENT TP7: North & South Tar Ponds Surface Cap

IQAC SITE TESTING SUMMARY

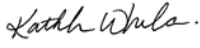

Date:	June 13, 2012	IQAC On-Site Rep:	Kathleen Whelan
Relevant Project Specification(s)	Environmental Quality Assurance	Relevant Project Specification(s) No.	QA-EPP Project No. 121410955.215
IQAC Item No(s) / Descriptions	ENV-T-02	Time On-Site:	0815
Weather:	Foggy, 11°C, N @4km		
Area Tested/Inspected:	TP7 – Coke Ovens Brook/Wash Brook		
Inspection / Testing Summary			
Met contractor on site at 0815 and proceeded to Coke Ovens Brook in Phase I. Only sampled upstream here where it was previously sampled downstream as well. This was on advisement of the contractor. Next proceeded to sample Wash Brook upstream, midstream and downstream. Samples were tested immediately after sampling. Contractor activities included hauling and installing clay to Phase I and II.			
Sample #	GPS Co-ordinates (NAD 83 – Northing/Easting)	General Site Description	Sample Results (NTU)
1	460 1679 511 2989	Coke Oven Brook Upstream	1.86
2	460 0826 511 2989	Wash Brook Downstream	1.75
3	460 1003 511 2776	Wash Brook Midstream	1.86
4	460 1263 511 2361	Wash Brook Upstream	1.34
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>The four Turbidity values recorded above are within acceptable levels.</i>			
IQAC Review and Acceptance			
IQAC On-Site Rep (Sign/Print/Date):	 /Kathleen Whelan, B.Tech. (Env)	IQAC Management Review (Sign/Print/Date):	 /Jamie Tunnicliff, B.Sc., B.Eng.
	June 13, 2012		June 14, 2012

**STPA PROJECT ELEMENT TP7: North & South Tar Ponds Surface Cap
IQAC SITE TESTING SUMMARY**

Date:	June 20, 2012	IQAC On-Site Rep:	Kathleen Whelan
Relevant Project Specification(s)	Environmental Quality Assurance	Relevant Project Specification(s) No.	QA-EPP Project No. 121410955.215
IQAC Item No(s) / Descriptions	ENV-T-02	Time On-Site:	1525
Weather:	Overcast, 18°C, SW@9km		
Area Tested/Inspected:	TP7 – Phase I and II		
Inspection / Testing Summary			
Met contractor on site at 1525. Sampled Coke Ovens Brook first then 3 wash brook locations. All samples were tested immediately after sampling. No issues noted. Contractor activities included hauling and installing clay to finish Phase I.			
Sample #	GPS Co-ordinates (NAD 83 – Northing/Easting)	General Site Description	Sample Results (NTU)
1	460 1684 511 2451	Coke Ovens Upstream	4.14
2	460 0824 511 299	Wash Brook Downstream	1.22
3	460 1010 511 2774	Wash Brook Midstream	0.88
4	460 1265 511 3435	Wash Brook Upstream	1.50
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>The four Turbidity values recorded above are within acceptable levels.</i>			
IQAC Review and Acceptance			
IQAC On-Site Rep (Sign/Print/Date):	 /Kathleen Whelan, B.Tech. (Env)	IQAC Management Review (Sign/Print/Date):	 /Jamie Tunnicliff, B.Sc., B.Eng.
	June 20, 2012		June 21, 2012

STPA PROJECT ELEMENT TP7: North & South Tar Ponds Surface Cap

IQAC SITE TESTING SUMMARY

Date:	June 25, 2012	IQAC On-Site Rep:	Kathleen Whelan
Relevant Project Specification(s)	Environmental Quality Assurance	Relevant Project Specification(s) No.	QA-EPP Project No. 121410955.215
IQAC Item No(s) / Descriptions	ENV-T-02	Time On-Site:	1530
Weather:	Clear, 19°C, W @ 19km		
Area Tested/Inspected:	TP7 – Coke Ovens Brook/Wash Brook		
Inspection / Testing Summary			
Met contractor on site at 1530 and proceeded to first sampling location. Contractor activities for the day included hauling and placing clay on Phase II (South end of North Pond). Sampled Coke Ovens Brook, then Wash Brook Downstream, Midstream and Upstream. Samples were tested on site immediately following collection. Offsite at 1630.			
Sample #	GPS Co-ordinates (NAD 83 – Northing/Easting)	General Site Description	Sample Results (NTU)
1	460 1686 511 2452	Coke Ovens Upstream	3.29
2	460 0826 511 2991	Wash Brook Downstream	1.61
3	460 1000 511 2777	Wash Brook Midstream	1.57
4	420 1260 511 2368	Wash Brook Upstream	2.52
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>The Turbidity values recorded above are within acceptable levels.</i>			
IQAC Review and Acceptance			
IQAC On-Site Rep (Sign/Print/Date):	 /Kathleen Whelan, B.Tech. (Env)	IQAC Management Review (Sign/Print/Date):	 /Jamie Tunnicliff, B.Sc., B.Eng.
	June 25, 2012		June 26, 2012



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Stantec

SOILS COMPACTION REPORT SHEET

CLIENT: Sydney Tar Ponds Agency PROJECT: Element TP7 - North and South Tar Ponds Surface Cap PROJECT NO: 121410955.215

MATERIAL AND PROCTOR DATA


COMPACTION SPECIFICATION 95% MATERIAL TYPE Cohesive Backfill (Protective Fill) SAMPLED FROM Frenchvale

PROCTOR TYF STD MAX. DRY DENSITY 2061 OPTIMUM MOISTURE 11 % GAUGE SERIAL # 16728

FIELD TEST DATA

DATE	TEST NO.	TEST LOCATIONS (ATS77 Coordinate) Easting - Northing	APPROX. ELEV.	DRY DENSITY (kg/m ³)	MOISTURE CONTENT (%)	PERCENT PROCTOR (%)	PASS	FAIL	PROBE DEPTH	REMARKS
11-May-2012	1	5112983, 4600921	Grade	2062.0	10.9	100.0	X		150	Met the specified 95% minimum compaction criteria.
	2	5112953, 4600907	Grade	1963.0	11.6	95.2	X		150	

Note: A compaction test only provides data for the specific test location and to a depth of up to 300 mm below the surface at the time of the test. Total approval of a fill project requires continuous inspection and a brief report written by a geotechnical engineer.

REVIEWED BY: Rabi Morelly 

DATE: 11-May-12



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Stantec

SOILS COMPACTION REPORT SHEET

CLIENT: Sydney Tar Ponds Agency PROJECT: Element TP7 - North and South Tar Ponds Surface Cap PROJECT NO: 121410955.215

MATERIAL AND PROCTOR DATA


COMPACTION SPECIFICATION 95% MATERIAL TYPE Cohesive Backfill (Low Permeable Fill) SAMPLED FROM Frenchvale

PROCTOR TYF STD MAX. DRY DENSITY 2061 OPTIMUM MOISTURE 11 % GAUGE SERIAL # 16728

FIELD TEST DATA

DATE	TEST NO.	TEST LOCATIONS (ATS77 Coordinate) Easting - Northing	APPROX. ELEV.	DRY DENSITY (kg/m ³)	MOISTURE CONTENT (%)	PERCENT PROCTOR (%)	PASS	FAIL	PROBE DEPTH	REMARKS
25-May-2012	1	5113023, 4600630	Grade	2030	7.2	98.5	X		200	Met the specified 95% minimum compaction criteria.
	2	5113035, 4600653	Grade	2076	6.8	100.7	X		200	

Note: A compaction test only provides data for the specific test location and to a depth of up to 300 mm below the surface at the time of the test. Total approval of a fill project requires continuous inspection and a brief report written by a geotechnical engineer.

REVIEWED BY: Rabi Morelly 

DATE: 25-May-12



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SOILS COMPACTION REPORT SHEET

CLIENT: Sydney Tar Ponds Agency PROJECT: Element TP7 - North and South Tar Ponds Surface Cap PROJECT NO: 121410955.215


MATERIAL AND PROCTOR DATA

COMPACTION SPECIFICATION 95% MATERIAL TYPE Cohesive Soil Backfill SAMPLED FROM Beechmont and Frenchvale
 PROCTOR TYP STD MAX. DRY DENSITY 2061 OPTIMUM MOISTURE 11 % GAUGE SERIAL # 14630

FIELD TEST DATA

DATE	TEST NO.	TEST LOCATIONS (ATS77 Coordinate) Easting - Northing	APPROX. ELEV.	DRY DENSITY (kg/m ³)	MOISTURE CONTENT (%)	PERCENT PROCTOR (%)	PASS	FAIL	PROBE DEPTH	REMARKS
11-Jun-2012	1	5113013, 4600383	1st Lift	2030.9	10.5	98.5	X		150	Met the specified 95% minimum compaction criteria.
	2	5113066, 4600387	1st Lift	2000.5	10.1	97.1	X		150	
	3	5113064, 4600392	1st Lift	1958.0	9.4	95.0	X		150	
	4	5113030, 4600514	1st Lift	2020.3	8.4	98.0	X		150	

Note: A compaction test only provides data for the specific test location and to a depth of up to 300 mm below the surface at the time of the test.
 Total approval of a fill project requires continuous inspection and a brief report written by a geotechnical engineer.

REVIEWED BY: Rabi Morelly, M.Sc., P.Eng.  DATE: 11-Jun-12

FIELD TECHNICIAN: Jonathan Ott RESULTS REPORTED ON SITE TO: Not Applicable DATE: 11-Jun-2012



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SOILS COMPACTION REPORT SHEET

CLIENT: Sydney Tar Ponds Agency PROJECT: Element TP7 - North and South Tar Ponds Surface Cap PROJECT NO: 121410955.215

MATERIAL AND PROCTOR DATA


COMPACTION SPECIFICATION 95% MATERIAL TYPE Cohesive Soil Backfill (PF) SAMPLED FROM Beechmont and Frenchvale Pit
 PROCTOR TYP STD MAX. DRY DENSITY 2061 OPTIMUM MOISTURE 11 % GAUGE SERIAL # 16731

FIELD TEST DATA

DATE	TEST NO.	TEST LOCATIONS (ATS77 Coordinate) Easting - Northing	APPROX. ELEV.	DRY DENSITY (kg/m ³)	MOISTURE CONTENT (%)	PERCENT PROCTOR (%)	PASS	FAIL	PROBE DEPTH	REMARKS
13-Jun-2012	1	5112816, 4601109	-	2013.0	12.8	97.7	X		200	Met the specified 95% minimum compaction criteria.
	2	5112811, 4601121	-	1972.0	11.6	95.7	X		200	
	3	5112829, 4601101	-	2095.0	10.3	101.6	X		200	

Note: A compaction test only provides data for the specific test location and to a depth of up to 300 mm below the surface at the time of the test.
 Total approval of a fill project requires continuous inspection and a brief report written by a geotechnical engineer.

REVIEWED BY: Rabi Morelly, M.Sc., P.Eng.  DATE: 13-Jun-12

FIELD TECHNICIAN: Derek Corbett  RESULTS REPORTED ON SITE TO: Not Applicable DATE: 13-Jun-2012



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SOILS COMPACTION REPORT SHEET

CLIENT: Sydney Tar Ponds Agency PROJECT: Element TP7 - North and South Tar Ponds Surface Cap PROJECT NO: 121410955.215

MATERIAL AND PROCTOR DATA

COMPACTION SPECIFICATION 95% MATERIAL TYPE Cohesive Soil Backfill (PF) SAMPLED FROM Beechmont and Frenchvale
 PROCTOR TYP STD MAX. DRY DENSITY 2061 OPTIMUM MOISTURE 11 % GAUGE SERIAL # 16731

FIELD TEST DATA

DATE	TEST NO.	TEST LOCATIONS (ATS77 Coordinate) Easting - Northing	APPROX. ELEV.	DRY DENSITY (kg/m ³)	MOISTURE CONTENT (%)	PERCENT PROCTOR (%)	PASS	FAIL	PROBE DEPTH	REMARKS
18-Jun-2012	1	Northwest Corner South Pond 5112507, 4601201	Grade	2027.0	7.4	98.4	X		200.0	Met the specified 95% minimum compaction criteria.
	2	Northwest Corner South Pond 5112491, 4601206	Grade	2066.0	7.9	100.2	X		200.0	Met the specified 95% minimum compaction criteria.
	3	Northeast Corner South Pond 5112681, 4601486	Grade	2097.0	6.2	101.7	X		200.0	Met the specified 95% minimum compaction criteria.
	4	Northeast Corner South Pond 5112668, 4601502	Grade	2082.0	6.9	101.0	X		200.0	Met the specified 95% minimum compaction criteria.

Note: A compaction test only provides data for the specific test location and to a depth of up to 300 mm below the surface at the time of the test. Total approval of a fill project requires continuous inspection and a brief report written by a geotechnical engineer.

REVIEWED BY: Rabi Morelly, M.Sc., P.Eng. 

DATE: 18-Jun-12

FIELD TECHNICIAN: Derek Corbett 

RESULTS REPORTED ON SITE TO: Not Applicable

DATE: 18-Jun-2012



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SOILS COMPACTION REPORT SHEET

CLIENT: Sydney Tar Ponds Agency PROJECT: Element TP7 - North and South Tar Ponds Surface Cap PROJECT NO: 121410955.215

MATERIAL AND PROCTOR DATA

COMPACTION SPECIFICATION 95% MATERIAL TYPE Cohesive Soil Backfill (PF) SAMPLED FROM Beechmont and Frenchvale
 PROCTOR TYP STD MAX. DRY DENSITY 2061 OPTIMUM MOISTURE 11 % GAUGE SERIAL # 10731

FIELD TEST DATA

DATE	TEST NO.	TEST LOCATIONS (ATS77 Coordinate) Easting - Northing	APPROX. ELEV.	DRY DENSITY (kg/m ³)	MOISTURE CONTENT (%)	PERCENT PROCTOR (%)	PASS	FAIL	PROBE DEPTH	REMARKS
29-Jun-2012	1	5112721, 4601154	Grade	2100.0	6.5	101.9	X		200	Met the specified 95% minimum compaction criteria.
	2	5112699, 4601183	Grade	2120.0	6.9	102.9	X		200	
	3	5112727, 4601128	Grade	2066.0	7.3	100.2	X		200	

Note: A compaction test only provides data for the specific test location and to a depth of up to 300 mm below the surface at the time of the test. Total approval of a fill project requires continuous inspection and a brief report written by a geotechnical engineer.

REVIEWED BY: Rabi Morelly, M.Sc., P.Eng.

DATE: 29-Jun-12

FIELD TECHNICIAN: Derek Corbett

RESULTS REPORTED ON SITE TO: Not Applicable

DATE: 29-Jun-2012

Monthly Noise QA Testing Summary Table

Contractor:	Tervita	Client:	STPA	Form Number:	TP7 Noise June 2012
Element:	TP7	Oversight:	AECOM/CBCL	Project:	Remediation of the Tar Ponds and Coke Ovens Sites
Month:	Jun-12	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	13-Jun-12	<65 dBA	TP7-06-13-2012-0815-1020	460 1632 511 2615	61.8 dBA	Pass	Y	Sample location is at Scale and Main Entrance Phase I. Importing and installing clay to Phase I near weigh scale.
EPP	ENV-T-01	Noise	CBRM Noise By-Law & NSE Criteria	once per month	13-Jun-12	<65 dBA	TP7-06-13-2012-1030-1231	460 1069 511 2925	63.4 dBA	Pass	Y	Sample location is at Phase II top of hill. Hauling and installing clay to Phase II.
EPP	ENV-T-01	Noise	CBRM Noise By-Law & NSE Criteria	once per month	13-Jun-12	<65 dBA	TP7-06-13-2012-1239-1449	460 1169 511 2464	58.4 dBA	Pass	Y	Sample location is South west of Ferry Street Bridge. Importing and installing clay to Phase I near weigh scale.

Activities onsite at the time of the sampling events include importing and installing clay.



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October 4, 2012
File: 121410955.215

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

Attention: Mr. Claude Goora, P.Eng. , PMP, Quality Contracts Manager

Dear: Mr. Goora

**Reference: Geotechnical/Materials Quality Assurance of Quality Control Program
Element TP7, Sydney Tar Ponds Project, Sydney, NS
Review of Contractor's June 2012 Quality Control (QC) Report**

At the request of the Sydney Tar Ponds Agency (STPA), Stantec Consulting Ltd. (hereafter Stantec), acting as the project Independent Quality Assurance Consultant (IQAC), has completed a Quality Assurance Review of the Contractor's (HAZCO) and their quality control consultant (exp Global Inc) Monthly Quality Control (QC) Report for the month of June 2012 for project Element TP7.

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 2	Samples PartSize-P3BE-SA#1 and PartSize-P1W-SA#1 which were collected on May 24, 2012 and June 22, 2012 respectively did not meet the 5-mm sieve gradation requirements of the project specifications.
Level 2	The "Specified Gradation Limits Table" included in the PartSize-P3BE-SA#1 test report, sample collected on May 24, 2012, is not correct.

October 4, 2012

Mr. Claude Goora, P.Eng. , PMP, Quality Contracts Manager

Page 2 of 2

**Reference: Geotechnical/Materials Quality Assurance of Quality Control Program
Element TP7 Sydney Tar Ponds Project, Sydney, NS
Review of Contractor's June 2012 Quality Control (QC) Report**

Level 3	All reports should be signed by the applicable QC testing and review personnel, with names clearly printed, and dated once they are completed and reviewed.
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This report covers the quality control aspects for both the geotechnical and materials portions of the project.

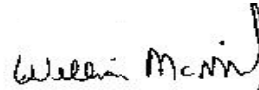
We trust this information meets your present needs. If you have any questions, or if we can be of further assistance, please do not hesitate to contact us at your convenience.

Sincerely,

STANTEC CONSULTING LTD



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



Willie McNeil, B.Tech. (Env.), CET
Project Manager
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Stantec

October 12, 2012
File: 121410955.215

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

Attention: Mr. Claude Goora, P.Eng., PMP, Quality Contract Manager

Dear: Mr. Goora

**Reference: Environmental Quality Assurance of Quality Control Program
Element TP7, Sydney Tar Ponds Project, Sydney, NS
Review of Contractor's June 2012 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 (Tervita and their quality control consultant (exp. Global Inc.)), Monthly Quality Control (QC) Report for the month of June 2012 for project element TP7.

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 consideration:

Level 3	<u>Environmental Inspection Logs</u> <u>The footnote on Page 1 of the EILs state, "Criteria for Acceptable and Not Acceptable for each checklist item is given on Pages 3 to 6". Pages 3 to 6 are not provided nor are 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.</u>
Level 3	<u>Environmental Inspection Logs</u> <u>The June 8 (1530), June 13 (0730), June 20 (1530) and June 25 (1530) EILs should state that the IQAC, Stantec, was on-site for Surface Water (Turbidity) and/or Noise Monitoring.</u>

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.

October 12, 2012

Mr. Claude Goora, P.Eng., PMP, Quality Contract Manager

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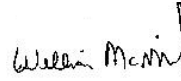
**Reference: Environmental Quality Assurance of Quality Control Program
Element TP7 Sydney Tar Ponds Project, Sydney, NS
Review of Contractor's June 2012 Quality Control (QC) Report**

Sincerely,

STANTEC CONSULTING LTD



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

- Weekly
 Monthly

From: 27-May-12 To: 30-Jun-12

Contractor:	Tervita	Client:	STPA	Form Number:	97918-QAF-059
Element:	TP7	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	Units	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 2012 05 27 - 2012 06 02																				
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		16-May-12	PF-Com-16-May 12	95% (or 92% if moisture ≥ opt. +6%)	pending	pending	%	pending	Y							
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		18-May-12	Perm-PF-75	≤ 1 x 10 ⁻⁸ cm/sec	1-Jun-12	4.6E-08	cm/s	pass	Y							
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		22-May-12	Perm-PF-76	≤ 1 x 10 ⁻⁸ cm/sec	6-Jun-12	2.6E-08	cm/s	pass	Y							
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		23-May-12	Perm-P3BE-1	≤ 1 x 10 ⁻⁸ cm/sec	6-Jun-12	1.9E-08	cm/s	pass	Y							
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		24-May-12	Perm-P3BE-2A	≤ 1 x 10 ⁻⁸ cm/sec	6-Jun-12	2.6E-08	cm/s	pass	Y							
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		24-May-12	Perm-P3BE-2B	≤ 1 x 10 ⁻⁸ cm/sec	6-Jun-12	2.0E-08	cm/s	pass	Y							
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		24-May-12	Perm-P3BE-2C	≤ 1 x 10 ⁻⁸ cm/sec	6-Jun-12	2.0E-08	cm/s	pass	Y							
31 22 16	Cohesive Soil Backfill	Atterberg Limits	ASTM D698	Every 10 000 m ³		24-May-12	Atterberg-P3BE-SA#1	Not Specified	6-Jun-12	Liquid Limit: 29.7 Plastic Limit: 18.6 Plastic Index: 11.1	%	For Information Only	Y							
31 22 16	Cohesive Soil Backfill	Standard Proctor	ASTM D698	Every 10 000 m ³		24-May-12	StdProc-P3BE-SA#1	Not Specified	6-Jun-12	2122 (8.2)	kg/m ³ (%)	For Information Only	Y							
31 22 16	Cohesive Soil Backfill	Particle Size Analysis	ASTM D422	Every 10 000 m ³		24-May-12	PartSize-P3BE-SA#1	100% passing 150 mm ≥ 95% passing 100 mm ≥ 80% passing 4.75 mm ≥ 30% passing 0.075 mm	6-Jun-12	100% passing 150 mm 100% passing 100 mm 65.1% passing 5 mm 34.1% passing 0.075 mm	%	fail	Y							
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift	1 test or 10% of QC tests whichever is greater.	25-May-12	P3BE-Com-25 May 12	95% (or 92% if moisture ≥ opt. +6%)	29-May-12	96.1-99.5 (9.6-10.8)	%	pass	Y	Field Compaction Cohesive Backfill Low Permeable Fill Tests 1-2 (25-May-12)	25-May-12	% Compaction: 98.6-100.7 % M.C.: 6.8-7.2	Pass	Y		All compactions met the specified 95% minimum compaction criterion.
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		28-May-12	P3BE-Com-28 May 12	95% (or 92% if moisture ≥ opt. +6%)	29-May-12	96.1-99.9 (9.5-10.0)	%	pass	Y							
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		28-May-12	Perm-P3BE-3	≤ 1 x 10 ⁻⁸ cm/sec	6-Jun-12	2.0E-08	cm/s	pass	Y							
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		29-May-12	P3BE-Com-29 May 12	95% (or 92% if moisture ≥ opt. +6%)	30-May-12	97.4-100.0 (9.4-10.7)	%	pass	Y							
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		30-May-12	P3BE-Com-30 May 12	95% (or 92% if moisture ≥ opt. +6%)	1-Jun-12	99.7-100.0 (9.4-10.1)	%	pass	Y							
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		31-May-12	P3BE-Com-31 May 12	95% (or 92% if moisture ≥ opt. +6%)	1-Jun-12	97.4-98.5 (9.8-11.3)	%	pass	Y							
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		31-May-12	Perm-P3BE-4	≤ 1 x 10 ⁻⁸ cm/sec	12-Jun-12	1.9E-08	cm/s	pass	Y							
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		1-Jun-12	P3BE-Com-01 Jun 12	95% (or 92% if moisture ≥ opt. +6%)	6-Jun-12	97.2-100.0 (9.4-11.1)	%	pass	Y							
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		1-Jun-12	ED-Com-01 Jun 12	95% (or 92% if moisture ≥ opt. +6%)	6-Jun-12	97.0-100.1 (9.6-12.1)	%	pass	Y							
Week 2 2012 06 03 - 2012 06 09																				
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		4-Jun-12	P3BE-Com-04 Jun 12 (#41-46)	95% (or 92% if moisture ≥ opt. +6%)	6-Jun-12	96.3-99.8 (9.2-11.2)	%	pass	Y							
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		4-Jun-12	ED-Com-04 Jun 12 (#7-12)	95% (or 92% if moisture ≥ opt. +6%)	6-Jun-12	97.1-100.7 (9.6-11.8)	%	pass	Y							
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		4-Jun-12	Perm-P3BE-5	≤ 1 x 10 ⁻⁸ cm/sec	13-Jun-12	2.0E-08	cm/s	pass	Y							
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		4-Jun-12	Perm-ED-1	≤ 1 x 10 ⁻⁸ cm/sec	13-Jun-12	4.0E-08	cm/s	pass	Y							
31 22 16	Cohesive Soil Backfill	Standard Proctor	ASTM D698	Every 10 000 m ³		7-Jun-12	ED-SA#1	Not Specified	20-Jun-12	2095 (8.9)	kg/m ³ (%)	For Information Only	Y							
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		8-Jun-12	ED-Com-08 Jun 12 (#13-22)	95% (or 92% if moisture ≥ opt. +6%)	12-Jun-12	97.4-101.2 (10.1-12.7)	%	pass	Y							
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		8-Jun-12	Perm-ED-2	≤ 1 x 10 ⁻⁸ cm/sec	18-Jun-12	2.6E-08	cm/s	pass	Y							
Week 3 2012 06 10 - 2012 06 16																				
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift	1 test or 10% of QC tests whichever is greater.	11-Jun-12	P3BE-Com-11 Jun 12 (#47-52)	95% (or 92% if moisture ≥ opt. +6%)	12-Jun-12	97.1-100.3 (9.7-11.9)	%	pass	Y	Field Compaction Cohesive Backfill Tests 1-4 (11-Jun-12)	11-Jun-12	% Compaction: 95.0-98.5 % M.C.: 8.4-10.5	Pass	Y		All compactions met the specified 95% minimum compaction criterion.
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		12-Jun-12	ED-Com-12 Jun 12 (#23-27)	95% (or 92% if moisture ≥ opt. +6%)	13-Jun-12	97.1-99.7 (9.5-11.5)	%	pass	Y							
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		12-Jun-12	P3BE-Com-12 Jun 12 (#53-54)	95% (or 92% if moisture ≥ opt. +6%)	13-Jun-12	97.6-100.1 (9.3-10.2)	%	pass	Y							
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		13-Jun-12	ED-Com-13 Jun 12 (#28-33)	95% (or 92% if moisture ≥ opt. +6%)	14-Jun-12	97.0-99.8 (9.6-11.8)	%	pass	Y							
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		13-Jun-12	P3BE-Com-13 Jun 12 (#55-57)	95% (or 92% if moisture ≥ opt. +6%)	14-Jun-12	98.5-100.3 (9.4-9.7)	%	pass	Y							
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift	1 test or 10% of QC tests whichever is greater.	13-Jun-12	PF-Com-13 Jun 12 (#702-709)	95% (or 92% if moisture ≥ opt. +6%)	14-Jun-12	96.6-100.0 (9.7-14.6)	%	pass	Y	Field Compaction Cohesive Backfill PF Tests 1-3 (13-Jun-12)	13-Jun-12	% Compaction: 95.7-101.6 % M.C.: 10.3-12.8	Pass	Y		All compactions met the specified 95% minimum compaction criterion.



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

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 Monthly

From: 27-May-12 To: 30-Jun-12

Contractor:	Tervita	Client:	STPA	Form Number:	97918-QAF-059
Element:	TP7	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	Units	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	
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³	1 test or 10% of QC tests whichever is greater.	13-Jun-12	Perm-PF-77	≤ 1 x 10 ⁻⁸ cm/sec	19-Jun-12	3.9E-08	cm/s	pending	Y	Perm Cohesive Backfill PF TP7-13JUN12	21-Jun-12	5.8 x 10 ⁻⁸ cm/s	Pass	Y		Met the specified maximum Permeability of 1 x 10 ⁻⁷ cm/s.	
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		13-Jun-12	Perm-ED-3	≤ 1 x 10 ⁻⁸ cm/sec	19-Jun-12	9.8E-08	cm/s	pass	Y								
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		14-Jun-12	ED-Com-14 Jun 12 (#34-38)	95% (or 92% if moisture ≥ opt. +6%)	15-Jun-12	96.1-99.3 (9.3-10.0)	%	pass	Y								
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		14-Jun-12	PF-Com-14 Jun 12 (#710-715)	95% (or 92% if moisture ≥ opt. +6%)	15-Jun-12	97.3-100.5 (9.4-11.2)	%	pass	Y								
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		15-Jun-12	ED-Com-15 Jun 12 (#39-40)	95% (or 92% if moisture ≥ opt. +6%)	18-Jun-12	97.3-98.1 (10.2-11.0)	%	pass	Y								
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		15-Jun-12	P1W-Com-15 Jun 12 (#1-8)	95% (or 92% if moisture ≥ opt. +6%)	18-Jun-12	97.6-100.4 (9.3-9.9)	%	pass	Y								
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		15-Jun-12	Perm-ED-4	≤ 1 x 10 ⁻⁸ cm/sec	27-Jun-12	2.4E-08	cm/s	pass	Y								
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		15-Jun-12	Perm-P1W-1A	≤ 1 x 10 ⁻⁸ cm/sec	pending	pending	cm/s	pending	Y								
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		15-Jun-12	Perm-P1W-1B	≤ 1 x 10 ⁻⁸ cm/sec	pending	pending	cm/s	pending	Y								
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		15-Jun-12	Perm-P1W-1C	≤ 1 x 10 ⁻⁸ cm/sec	27-Jun-12	2.3E-08	cm/s	pass	Y								
31 22 16	Cohesive Soil Backfill	Atterburg Limits	ASTM D698	Every 10 000 m ³		15-Jun-12	Atterburg-P1W-SA#1	Not Specified	22-Jun-12	Liquid Limit: 28.3 Plastic Limit: 19.7 Plastic Index: 8.6	%	For Information Only	Y								
31 22 16	Cohesive Soil Backfill	Standard Proctor	ASTM D698	Every 10 000 m ³		15-Jun-12	StdProc-P1W-SA#1	Not Specified	22-Jun-12	2048 (8.9)	kg/m ³ (%)	For Information Only	Y								
31 22 16	Cohesive Soil Backfill	Particle Size Analysis	ASTM D422	Every 10 000 m ³		15-Jun-12	PartSize-P1W-SA#1	100% passing 150 mm ≥ 95% passing 100 mm ≥ 80% passing 4.75 mm ≥ 30% passing 0.075 mm	22-Jun-12	100% passing 150 mm 100% passing 100 mm 78.6% passing 5 mm 42.8% passing 0.075 mm	%	fail	Y								
Week 4 2012 06 17 - 2012 06 23																					
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift	1 test or 10% of QC tests whichever is greater.	18-Jun-12	ED-Com-18 Jun 12 (#41-44)	95% (or 92% if moisture ≥ opt. +6%)	19-Jun-12	98.2-100.4 (9.1-9.6)	%	pass	Y	Field Compaction Cohesive Backfill PF Tests 1-4 (18-Jun-12)	18-Jun-12	% Compaction: 98.4-101.7 % M.C.: 6.2-7.9	Pass	Y		All compactions met the specified 95% minimum compaction criterion.	
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		19-Jun-12	ED-Com-19 Jun 12 (#45-54)	95% (or 92% if moisture ≥ opt. +6%)	20-Jun-12	95.2-98.1 (9.3-10.4)	%	pass	Y								
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		19-Jun-12	P1W-Com-19 Jun 12 (#9-10)	95% (or 92% if moisture ≥ opt. +6%)	20-Jun-12	95.6-96.3 (9.3-10.4)	%	pass	Y								
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		20-Jun-12	ED-Com-20 Jun 12 (#55-61)	95% (or 92% if moisture ≥ opt. +6%)	21-Jun-12	96.2-98.4 (8.8-9.6)	%	pass	Y								
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		20-Jun-12	Perm-ED-5	≤ 1 x 10 ⁻⁸ cm/sec	27-Jun-12	1.7E-08	%	pass	Y								
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		20-Jun-12	Perm-ED-6	≤ 1 x 10 ⁻⁸ cm/sec	27-Jun-12	1.7E-08	%	pass	Y								
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		21-Jun-12	ED-Com-21 Jun 12 (#62-67)	95% (or 92% if moisture ≥ opt. +6%)	22-Jun-12	95.6-99.8 (8.5-9.7)	%	pass	Y								
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		22-Jun-12	ED-Com-22 Jun 12 (#68-72)	95% (or 92% if moisture ≥ opt. +6%)	25-Jun-12	99.3-100.5 (8.0-8.9)	%	pass	Y								
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		22-Jun-12	Perm-ED-7	≤ 1 x 10 ⁻⁸ cm/sec	pending	pending	%	pending	Y								
31 22 16	Cohesive Soil Backfill	Standard Proctor	ASTM D698	Every 10 000 m ³		22-Jun-12	ED-SA#2	Not Specified	27-Jun-12	2099 (8.7)	kg/m ³ (%)	For Information Only	Y								
Week 5 2012 06 24 - 2012 06 30																					
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		25-Jun-12	ED-Com-25 Jun 12 (#73-74)	95% (or 92% if moisture ≥ opt. +6%)	26-Jun-12	98.3-99.8 (8.7-9.6)	%	pass	Y								
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		25-Jun-12	PF-Com-25 Jun 12 (#716-723)	95% (or 92% if moisture ≥ opt. +6%)	26-Jun-12	95.5-97.8 (8.1-11.3)	%	pass	Y								
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		25-Jun-12	Perm-ED-8	≤ 1 x 10 ⁻⁸ cm/sec	pending	pending	%	pending	Y								
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		25-Jun-12	Perm-ED-9	≤ 1 x 10 ⁻⁸ cm/sec	pending	pending	%	pending	Y								
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		25-Jun-12	Perm-PF-78	≤ 1 x 10 ⁻⁸ cm/sec	pending	pending	%	pending	Y								
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		26-Jun-12	PF-Com-26 Jun 12 (#724-729)	95% (or 92% if moisture ≥ opt. +6%)	27-Jun-12	96.4-100.0 (8.4-9.4)	%	pass	Y								
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		26-Jun-12	Perm-PF-79	≤ 1 x 10 ⁻⁸ cm/sec	pending	pending	%	pending	Y								
31 22 16	Cohesive Soil Backfill	Standard Proctor	ASTM D698	Every 10 000 m ³		26-Jun-12	StdProc-PF-SA#15	Not Specified	pending	pending	kg/m ³ (%)	For Information Only	Y								
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift		28-Jun-12	GB-Com-28 Jun 12 (#332-336)	95% (or 92% if moisture ≥ opt. +6%)	29-Jun-12	97.1-100.0 (9.5-9.8)	%	pass	Y								
31 22 16	Cohesive Soil Backfill	Permeability	ASTM D5084	Every 2000 m ³		28-Jun-12	Perm-GB-39	≤ 1 x 10 ⁻⁸ cm/sec	pending	pending	%	pending	Y								
31 22 16	Cohesive Soil Backfill	Compaction (and Moisture)	ASTM D6938	Every 1000 m ² for each lift	1 test or 10% of QC tests whichever is greater.	29-Jun-12	GB-Com-28 Jun 12 (#332-336)	95% (or 92% if moisture ≥ opt. +6%)	29-Jun-12	97.1-100.0 (9.5-9.8)	%	pass	Y	Field Compaction Cohesive Backfill PF Tests 1-3 (29-Jun-12)	29-Jun-12	% Compaction: 100.2-102.9 % M.C.: 6.5-7.3	Pass	Y		All compactions met the specified 95% minimum compaction criterion.	



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		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	Units	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
32 91 21	Topsoil	Organic Matter	ASTM D2974	Every 1000 m ³ for each lift		29-Jun-12	Org-Topsoil-SA#9	4.0-8.0%	pending	pending	%	pending	Y							
32 91 21	Topsoil	Physical Properties	ASTM D5268	Every 1000 m ³ for each lift		29-Jun-12	PartSize-Topsoil-SA#9	20-70% Sand ≥ 7% Clay 95-100% passing 2 mm	pending	pending	%	pending	Y							



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

- Weekly
- Monthly

From: 27-May-12 30-Jun-12

Contractor:	Tervita	Client:	STPA	Form Number:	97918-QAF-073
Element:	TP 7	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	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		28-May-12	Turbidity-TP7-Upstream COB - 28 May 2012 - 0730 Turbidity-TP7-Outfall COB - 28 May 2012 - 0730 Turbidity-TP7-Midstream COB - 28 May 2012 - 0730 Turbidity-TP7-Upstream WB - 28 May 2012 - 0730 Turbidity-TP7-Midstream - 28 May 2012 - 0730 Turbidity-TP7-Downstream - 28 May 2012 - 0730	8 NTU above background	28-May-12	2.2 NTU 7.3 NTU 8.4 NTU 1.6 NTU 2.2 NTU 3.0 NTU	Pass	Y									
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		28-May-12	Turbidity-TP7-COB Midstream - 28 May 2012 - 1130 Turbidity-TP7-WB Upstream - 28 May 2012 - 1130 Turbidity-TP7-Midstream - 28 May 2012 - 1130 Turbidity-TP7-Downstream - 28 May 2012 - 1130	8 NTU above background	28-May-12	5.6 NTU 1.6 NTU 1.9 NTU 1.8 NTU	Pass	Y									
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		28-May-12	Turbidity-TP7-COB Midstream - 28 May 2012 - 1530 Turbidity-TP7-WB Upstream - 28 May 2012 - 1530 Turbidity-TP7-Midstream - 28 May 2012 - 1530 Turbidity-TP7-Downstream - 28 May 2012 - 1530	8 NTU above background	28-May-12	5.0 NTU 1.5 NTU 1.9 NTU 1.5 NTU	Pass	Y									
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		29-May-12	Turbidity-TP7-COB Midstream - 29 May 2012 - 0730 Turbidity-TP7-WB Upstream - 29 May 2012 - 0730 Turbidity-TP7-Midstream - 29 May 2012 - 0730 Turbidity-TP7-Downstream - 29 May 2012 - 0730	8 NTU above background	29-May-12	3.6 NTU 1.9 NTU 2.3 NTU 1.6 NTU	Pass	Y									
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		29-May-12	Turbidity-TP7-COB Midstream - 29 May 2012 - 1130 Turbidity-TP7-WB Upstream - 29 May 2012 - 1130 Turbidity-TP7-Midstream - 29 May 2012 - 1130 Turbidity-TP7-Downstream - 29 May 2012 - 1130	8 NTU above background	29-May-12	3.2 NTU 2.0 NTU 3.7 NTU 1.8 NTU	Pass	Y									
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		29-May-12	Turbidity-TP7-Upstream COB - 29 May 2012 - 1530 Turbidity-TP7-Outfall COB - 29 May 2012 - 1530 Turbidity-TP7-Midstream COB - 29 May 2012 - 1530 Turbidity-TP7-Upstream WB - 29 May 2012 - 1530 Turbidity-TP7-Midstream - 29 May 2012 - 1530 Turbidity-TP7-Downstream - 29 May 2012 - 1530 Turbidity-TP7-Midstream COB - 29 May 2012 - 1600 Turbidity-TP7-Downstream COB - 29 May 2012 - 1600 Turbidity-TP7-Midstream COB - 29 May 2012 - 1700 Turbidity-TP7-Midstream COB - 29 May 2012 - 1800 Turbidity-TP7-Midstream COB - 29 May 2012 - 1900 Turbidity-TP7-Downstream COB - 29 May 2012 - 1900	8 NTU above background	29-May-12	2.8 NTU 10.9 NTU 48.9 NTU 1.8 NTU 4.8 NTU 2.5 NTU 42.2 NTU 7.8 NTU 26.7 NTU 21.3 NTU 14.8 NTU 8.2 NTU	Fail	Y					2. high turbidity on COB, due to catch basins being cleaned, did additional turbidity tests below, DS samples within acceptable range 29 May, 2012 1530, BOD				
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		30-May-12	Turbidity-TP7-Upstream COB - 30 May 2012 - 0730 Turbidity-TP7-Outfall COB - 30 May 2012 - 0730 Turbidity-TP7-Midstream COB - 30 May 2012 - 0730 Turbidity-TP7-Upstream WB - 30 May 2012 - 0730 Turbidity-TP7-Midstream - 30 May 2012 - 0730 Turbidity-TP7-Downstream - 30 May 2012 - 0730	8 NTU above background	30-May-12	1.9 NTU 2.4 NTU 9.1 NTU 1.9 NTU 2.8 NTU 2.1 NTU	Pass	Y									
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		30-May-12	Turbidity-TP7-Upstream COB - 30 May 2012 - 1130 Turbidity-TP7-Midstream COB - 30 May 2012 - 1130 Turbidity-TP7-Upstream WB - 30 May 2012 - 1130 Turbidity-TP7-Midstream - 30 May 2012 - 1130 Turbidity-TP7-Downstream - 30 May 2012 - 1130	8 NTU above background	30-May-12	3.4 NTU 11.2 NTU 2.2 NTU 2.2 NTU 1.8 NTU	Pass	Y									
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		30-May-12	Turbidity-TP7-Upstream COB - 30 May 2012 - 1530 Turbidity-TP7-Outfall COB - 30 May 2012 - 1530 Turbidity-TP7-Midstream COB - 30 May 2012 - 1530 Turbidity-TP7-Upstream WB - 30 May 2012 - 1530 Turbidity-TP7-Midstream - 30 May 2012 - 1530 Turbidity-TP7-Downstream - 30 May 2012 - 1530	8 NTU above background	30-May-12	6.9 NTU 19.6 NTU 34.7 NTU 2.8 NTU 1.9 NTU 1.9 NTU	Fail	Y							2. deployed sweeper on Inglis street when trucks stopped hauling clay due to rain. 30 May 2012, 1130, BOD Elevated turbidity readings due to rainfall washing residual material from catch basins along Inglis and Ferry St.		
ENV-T-01	Noise Monitoring	Noise Monitoring with dosimeter or equivalent	CBRM Bylaw and NSE Criteria	Once weekly		31-May-12	Noise-TP7-Phase1 Main Scale Entrance - 31 May 2012	CBRM Bylaw and NSE Criteria 65 Leq (dBA)	31-May-12	61.8 Leq (dBA)	Pass	Y									
ENV-T-01	Noise Monitoring	Noise Monitoring with dosimeter or equivalent	CBRM Bylaw and NSE Criteria	Once weekly		31-May-12	Noise-TP7-Phase2 Above Ramp Hill - 31 May 2012	CBRM Bylaw and NSE Criteria 65 Leq (dBA)	31-May-12	62.2 Leq (dBA)	Pass	Y									
ENV-T-01	Noise Monitoring	Noise Monitoring with dosimeter or equivalent	CBRM Bylaw and NSE Criteria	Once weekly		31-May-12	Noise-TP7-Phase2 SW of Narrows Bridge - 31 May 2012	CBRM Bylaw and NSE Criteria 65 Leq (dBA)	31-May-12	49.8 Leq (dBA)	Pass	Y									
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		31-May-12	Turbidity-TP7-Upstream COB - 31 May 2012 - 0730 Turbidity-TP7-Midstream COB - 31 May 2012 - 0730 Turbidity-TP7-Upstream WB - 31 May 2012 - 0730 Turbidity-TP7-Midstream - 31 May 2012 - 0730 Turbidity-TP7-Downstream - 31 May 2012 - 0730	8 NTU above background	31-May-12	2.3 NTU 6.8 NTU 8.6 NTU 14.4 NTU 11.7 NTU	Pass	Y									
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		31-May-12	Turbidity-TP7-Upstream COB - 31 May 2012 - 1130 Turbidity-TP7-Midstream COB - 31 May 2012 - 1130 Turbidity-TP7-Upstream WB - 31 May 2012 - 1130 Turbidity-TP7-Midstream - 31 May 2012 - 1130 Turbidity-TP7-Downstream - 31 May 2012 - 1130	8 NTU above background	31-May-12	2.2 NTU 5.4 NTU 6.6 NTU 11.3 NTU 13.2 NTU	Pass	Y									
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		31-May-12	Turbidity-TP7-Upstream COB - 31 May 2012 - 1530 Turbidity-TP7-Midstream COB - 31 May 2012 - 1530 Turbidity-TP7-Upstream WB - 31 May 2012 - 1530 Turbidity-TP7-Midstream - 31 May 2012 - 1530 Turbidity-TP7-Downstream - 31 May 2012 - 1530	8 NTU above background	31-May-12	1.9 NTU 4.9 NTU 4.4 NTU 1.5 NTU 11.1 NTU	Pass	Y									
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		1-Jun-12	Turbidity-TP7-Upstream COB - 01 Jun 2012 - 0730 Turbidity-TP7-Midstream COB - 01 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 01 Jun 2012 - 0730 Turbidity-TP7-Midstream - 01 Jun 2012 - 0730 Turbidity-TP7-Downstream - 01 Jun 2012 - 0730	8 NTU above background	1-Jun-12	2.1 NTU 4.0 NTU 2.4 NTU 3.9 NTU 7.4 NTU	Pass	Y									
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		1-Jun-12	Turbidity-TP7-Upstream COB - 01 Jun 2012 - 1130 Turbidity-TP7-Midstream COB - 01 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 01 Jun 2012 - 1130 Turbidity-TP7-Midstream - 01 Jun 2012 - 1130 Turbidity-TP7-Downstream - 01 Jun 2012 - 1130	8 NTU above background	1-Jun-12	2.1 NTU 4.7 NTU 2.3 NTU 3.2 NTU 5.5 NTU	Pass	Y									
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		1-Jun-12	Turbidity-TP7-Upstream COB - 01 Jun 2012 - 1530 Turbidity-TP7-Midstream COB - 01 Jun 2012 - 1530 Turbidity-TP7-Upstream WB - 01 Jun 2012 - 1530 Turbidity-TP7-Midstream - 01 Jun 2012 - 1530 Turbidity-TP7-Downstream - 01 Jun 2012 - 1530	8 NTU above background	1-Jun-12	1.8 NTU 3.2 NTU 2.0 NTU 4.0 NTU 4.8 NTU	Pass	Y									
Week 2																					
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		4-Jun-12	Turbidity-TP7-Upstream COB - 04 Jun 2012 - 0730 Turbidity-TP7-Midstream COB - 04 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 04 Jun 2012 - 0730 Turbidity-TP7-Midstream - 04 Jun 2012 - 0730 Turbidity-TP7-Downstream - 04 Jun 2012 - 0730	8 NTU above background	4-Jun-12	1.9 NTU 3.8 NTU 1.9 NTU 2.0 NTU 2.4 NTU	Pass	Y									
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		4-Jun-12	Turbidity-TP7-Upstream COB - 04 Jun 2012 - 1130 Turbidity-TP7-Midstream COB - 04 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 04 Jun 2012 - 1130 Turbidity-TP7-Midstream - 04 Jun 2012 - 1130 Turbidity-TP7-Downstream - 04 Jun 2012 - 1130	8 NTU above background	4-Jun-12	2.1 NTU 3.4 NTU 1.5 NTU 1.9 NTU 2.6 NTU	Pass	Y									
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		4-Jun-12	Turbidity-TP7-Upstream COB - 04 Jun 2012 - 1530 Turbidity-TP7-Midstream COB - 04 Jun 2012 - 1530 Turbidity-TP7-Upstream WB - 04 Jun 2012 - 1530 Turbidity-TP7-Midstream - 04 Jun 2012 - 1530 Turbidity-TP7-Downstream - 04 Jun 2012 - 1530	8 NTU above background	4-Jun-12	2.8 NTU 3.3 NTU 1.7 NTU 1.9 NTU 2.4 NTU	Pass	Y									



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

- Weekly
- Monthly

From: 27-May-12 30-Jun-12

Contractor:	Tervita	Client:	STPA	Form Number:	97918-QAF-073
Element:	TP 7	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-01	Noise Monitoring	Noise Monitoring with dosimeter or equivalent	CBRM Bylaw and NSE Criteria	Once weekly		4-Jun-12	Noise-TP7-Phase1 Main Scale Entrance - 04 June 2012	CBRM Bylaw and NSE Criteria 65 Leq (dBA)	4-Jun-12	61.8 Leq (dBA)	Pass	Y								
ENV-T-01	Noise Monitoring	Noise Monitoring with dosimeter or equivalent	CBRM Bylaw and NSE Criteria	Once weekly		4-Jun-12	Noise-TP7-Phase2 Above Ramp Hill- 04 June 2012	CBRM Bylaw and NSE Criteria 65 Leq (dBA)	4-Jun-12	56.4 Leq (dBA)	Pass	Y								
ENV-T-01	Noise Monitoring	Noise Monitoring with dosimeter or equivalent	CBRM Bylaw and NSE Criteria	Once weekly		4-Jun-12	Noise-TP7-Phase2 SW of Narrows Bridge - 04 June 2012	CBRM Bylaw and NSE Criteria 65 Leq (dBA)	4-Jun-12	58.3 Leq (dBA)	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		5-Jun-12	Turbidity-TP7-Upstream COB - 05 Jun 2012 - 0730 Turbidity-TP7-Midstream COB- 05 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 05 Jun 2012 - 0730 Turbidity-TP7-Midstream - 05 Jun 2012 - 0730 Turbidity-TP7-Downstream - 05 Jun 2012 - 0730	8 NTU above background	5-Jun-12	4.2 NTU 4.9 NTU 1.3 NTU 2.1 NTU 1.9 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		5-Jun-12	Turbidity-TP7-Upstream COB - 05 Jun 2012 - 1130 Turbidity-TP7-Midstream COB- 05 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 05 Jun 2012 - 1130 Turbidity-TP7-Midstream - 05 Jun 2012 - 1130 Turbidity-TP7-Downstream - 05 Jun 2012 - 1130	8 NTU above background	5-Jun-12	6.2 NTU 8.6 NTU 1.8 NTU 2.7 NTU 1.8 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		5-Jun-12	Turbidity-TP7-Upstream COB - 05 Jun 2012 - 1400 Turbidity-TP7-Outflow COB - 05 Jun 2012 - 1400 Turbidity-TP7-Downstream COB - 05 Jun 2012 - 1400	8 NTU above background	5-Jun-12	3.5 NTU 16.3 NTU 9.1 NTU	Fail	N						1. replaced silt bags & installed catch basin rings along inglis street, 05 June 2012, 1130, BOD. 2. visible turbidity at COB outtake additional samples taken: COB UP = 3.5, COB outtake = 16.3, COB DN(50 metres) = 9.1, 05 June 2012, 1400, BOD. 3. Silt curtain installed by TP6A Contractor at the mouth of the outfall at COB Channel. 7 June 2012, 10:48 KO		
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		5-Jun-12	Turbidity-TP7-Upstream COB - 05 Jun 2012 - 1500 Turbidity-TP7-Outflow COB - 05 Jun 2012 - 1500 Turbidity-TP7-Downstream COB - 05 Jun 2012 - 1500	8 NTU above background	5-Jun-12	3.7 NTU 15.8 NTU 10.2 NTU	Fail	N						1. visible turbidity at COB outtake additional samples taken		
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		5-Jun-12	Turbidity-TP7-Upstream COB - 05 Jun 2012 - 1530 Turbidity-TP7-Outtake COB - 05 Jun 2012 - 1530 Turbidity-TP7-Midstream COB- 05 Jun 2012 - 1530 Turbidity-TP7-Upstream WB - 05 Jun 2012 - 1530 Turbidity-TP7-Midstream - 05 Jun 2012 - 1530 Turbidity-TP7-Downstream - 05 Jun 2012 - 1530	8 NTU above background	5-Jun-12	4.6 NTU 15.2 NTU 11.1 NTU 2.3 NTU 2.1 NTU 2.0 NTU	Fail	N							1. visible turbidity at COB outtake additional samples taken	
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		5-Jun-12	Turbidity-TP7-Upstream COB - 05 Jun 2012 - 1600 Turbidity-TP7-Outflow COB - 05 Jun 2012 - 1600 Turbidity-TP7-Downstream COB - 05 Jun 2012 - 1600	8 NTU above background	5-Jun-12	4.6 NTU 15.2 NTU 11.1 NTU	Fail	N						1. visible turbidity at COB outtake additional samples taken		
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		6-Jun-12	Turbidity-TP7-Upstream COB - 06 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 06 Jun 2012 - 0730 Turbidity-TP7-Midstream - 06 Jun 2012 - 0730 Turbidity-TP7-Downstream - 06 Jun 2012 - 0730	8 NTU above background	6-Jun-12	3.5 NTU 6.2 NTU 11.8 NTU 17.3 NTU	Fail	N							1. Water visibly turbid at narrows bridge, due to turbid water sitting at narrows to enter pumps after heavy rainfall overnight, 06 June 2012, 0730, BOD. 2. Turbidity data from data logger at Battery Point supports theory that turbidity is elevated due to heavy rains overnight, not today's construction activities. Highest readings were at 4AM and dropping since that time. 7 June 2012, 1117, KO.	
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		6-Jun-12	Turbidity-TP7-Upstream COB - 06 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 06 Jun 2012 - 1130 Turbidity-TP7-Midstream - 06 Jun 2012 - 1130 Turbidity-TP7-Downstream - 06 Jun 2012 - 1130	8 NTU above background	6-Jun-12	5.3 NTU 4.2 NTU 6.6 NTU 9.0 NTU	Pass	Y						** Work activities finished at 1400		
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		7-Jun-12	Turbidity-TP7-Upstream COB - 07 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 07 Jun 2012 - 0730 Turbidity-TP7-Midstream - 07 Jun 2012 - 0730 Turbidity-TP7-Downstream - 07 Jun 2012 - 0730	8 NTU above background	7-Jun-12	2.9 NTU 2.3 NTU 3.1 NTU 3.1 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		7-Jun-12	Turbidity-TP7-Upstream COB - 07 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 07 Jun 2012 - 1130 Turbidity-TP7-Midstream - 07 Jun 2012 - 1130 Turbidity-TP7-Downstream - 07 Jun 2012 - 1130	8 NTU above background	7-Jun-12	3.0 NTU 2.1 NTU 2.6 NTU 2.5 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		7-Jun-12	Turbidity-TP7-Upstream COB - 07 Jun 2012 - 1530 Turbidity-TP7-Upstream WB - 07 Jun 2012 - 1530 Turbidity-TP7-Midstream - 07 Jun 2012 - 1530 Turbidity-TP7-Downstream - 07 Jun 2012 - 1530	8 NTU above background	7-Jun-12	2.2 NTU 1.6 NTU 2.0 NTU 2.0 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		8-Jun-12	Turbidity-TP7-Upstream COB - 08 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 08 Jun 2012 - 0730 Turbidity-TP7-Midstream - 08 Jun 2012 - 0730 Turbidity-TP7-Downstream - 08 Jun 2012 - 0730	8 NTU above background	8-Jun-12	2.2 NTU 2.1 NTU 2.3 NTU 2.2 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		8-Jun-12	Turbidity-TP7-Upstream COB - 08 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 08 Jun 2012 - 1130 Turbidity-TP7-Midstream - 08 Jun 2012 - 1130 Turbidity-TP7-Downstream - 08 Jun 2012 - 1130	8 NTU above background	8-Jun-12	3.1 NTU 1.2 NTU 1.9 NTU 2.1 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		8-Jun-12	Turbidity-TP7-Upstream COB - 08 Jun 2012 - 1530 Turbidity-TP7-Upstream WB - 08 Jun 2012 - 1530 Turbidity-TP7-Midstream - 08 Jun 2012 - 1530 Turbidity-TP7-Downstream - 08 Jun 2012 - 1530	8 NTU above background	8-Jun-12	1.5 NTU 1.7 NTU 1.6 NTU 2.5 NTU	Pass	Y	TP7-06-08-2012-Upstream COB TP7-06-08-2012-Upstream WB TP7-06-08-2012-Midstream TP7-06-08-2012-Downstream	8-Jun	2.55 NTU 1.77 NTU 1.94 NTU 2.19 NTU	Pass	Yes	Samples were collected in accordance with the EPP. Please refer to the weekly IQAC Site Testing Summary for further details.		
Week 3																				
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		11-Jun-12	Turbidity-TP7-Upstream COB - 11 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 11 Jun 2012 - 0730 Turbidity-TP7-Midstream - 11 Jun 2012 - 0730 Turbidity-TP7-Downstream - 11 Jun 2012 - 0730	8 NTU above background	11-Jun-12	1.9 NTU 1.8 NTU 2.6 NTU 1.9 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		11-Jun-12	Turbidity-TP7-Upstream COB - 11 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 11 Jun 2012 - 1130 Turbidity-TP7-Midstream - 11 Jun 2012 - 1130 Turbidity-TP7-Downstream - 11 Jun 2012 - 1130	8 NTU above background	11-Jun-12	2.1 NTU 1.4 NTU 2.3 NTU 2.6 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		11-Jun-12	Turbidity-TP7-Upstream COB - 11 Jun 2012 - 1530 Turbidity-TP7-Upstream WB - 11 Jun 2012 - 1530 Turbidity-TP7-Midstream - 11 Jun 2012 - 1530 Turbidity-TP7-Downstream - 11 Jun 2012 - 1530	8 NTU above background	11-Jun-12	2.2 NTU 2.3 NTU 2.4 NTU 2.6 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		12-Jun-12	Turbidity-TP7-Upstream COB - 12 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 12 Jun 2012 - 0730 Turbidity-TP7-Midstream - 12 Jun 2012 - 0730 Turbidity-TP7-Downstream - 12 Jun 2012 - 0730	8 NTU above background	12-Jun-12	1.3 NTU 1.4 NTU 1.8 NTU 1.9 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		12-Jun-12	Turbidity-TP7-Upstream COB - 12 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 12 Jun 2012 - 1130 Turbidity-TP7-Midstream - 12 Jun 2012 - 1130 Turbidity-TP7-Downstream - 12 Jun 2012 - 1130	8 NTU above background	12-Jun-12	3.7 NTU 1.3 NTU 1.7 NTU 1.9 NTU	Pass	Y								



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

- Weekly
- Monthly

From: 27-May-12 30-Jun-12

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Element:	TP 7	Oversight:	AECOM/CBCL	Project:	Remediation of the Tar Ponds and Coke Ovens Sites
		IQAC:	Stantec		

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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	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		12-Jun-12	Turbidity-TP7-Upstream COB - 12 Jun 2012 - 1530 Turbidity-TP7-Upstream WB - 12 Jun 2012 - 1530 Turbidity-TP7-Midstream - 012 Jun 2012 - 1530 Turbidity-TP7-Downstream - 12 Jun 2012 - 1530	8 NTU above background	12-Jun-12	2.1 NTU 1.3 NTU 1.6 NTU 2.0 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		13-Jun-12	Turbidity-TP7-Upstream COB - 13 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 13 Jun 2012 - 0730 Turbidity-TP7-Midstream - 13 Jun 2012 - 0730 Turbidity-TP7-Downstream - 13 Jun 2012 - 0730	8 NTU above background	13-Jun-12	1.7 NTU 1.2 NTU 1.7 NTU 1.8 NTU	Pass	Y	TP7-06-13-2012-Upstream COB TP7-06-13-2012-Upstream WB TP7-06-13-2012-Midstream TP7-06-13-2012-Downstream	13-Jun	1.86 NTU 1.34 NTU 1.88 NTU 1.75 NTU	Pass	Yes		Samples were collected in accordance with the EPP. Please refer to the weekly IQAC Site Testing Summary for further details.	
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		13-Jun-12	Turbidity-TP7-Upstream COB - 13 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 13 Jun 2012 - 1130 Turbidity-TP7-Midstream - 13 Jun 2012 - 1130 Turbidity-TP7-Downstream - 13 Jun 2012 - 1130	8 NTU above background	13-Jun-12	2.4 NTU 1.4 NTU 1.9 NTU 1.6 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		13-Jun-12	Turbidity-TP7-Upstream COB - 13 Jun 2012 - 1530 Turbidity-TP7-Upstream COB Outflow - 13 Jun 2012 - 1530 Turbidity-TP7-Upstream WB - 13 Jun 2012 - 1530 Turbidity-TP7-Midstream - 13 Jun 2012 - 1530 Turbidity-TP7-Downstream - 13 Jun 2012 - 1530	8 NTU above background	13-Jun-12	1.9 NTU 4.6 NTU 1.7 NTU 1.8 NTU 2.0 NTU	Pass	Y								
ENV-T-01	Noise Monitoring	Noise Monitoring with dosimeter or equivalent	CBRM Bylaw and NSE Criteria	Once weekly		13-Jun-12	Noise-TP7-Phase1 Main Scale Entrance - 13 June 2012	CBRM Bylaw and NSE Criteria 65 Leq (dBA)	13-Jun-12	59.9 Leq (dBA)	Pass	Y	TP7-06-13-2012-0815-1020	13-Jun	61.8 dBA	Pass	Y		Sample location is at Scale and Main Entrance Phase I. Importing and installing clay to Phase I near weigh scale.	
ENV-T-01	Noise Monitoring	Noise Monitoring with dosimeter or equivalent	CBRM Bylaw and NSE Criteria	Once weekly		13-Jun-12	Noise-TP7-Phase2 Above Ramp Hill- 13 June 2012	CBRM Bylaw and NSE Criteria 65 Leq (dBA)	13-Jun-12	59.3 Leq (dBA)	Pass	Y	TP7-06-13-2012-1030-1231	13-Jun	63.4 dBA	Pass	Y		Sample location is at Phase II top of hill. Hauling and installing clay to Phase II.	
ENV-T-01	Noise Monitoring	Noise Monitoring with dosimeter or equivalent	CBRM Bylaw and NSE Criteria	Once weekly		13-Jun-12	Noise-TP7-Phase2 SW of Ferry Bridge - 13 June 2012	CBRM Bylaw and NSE Criteria 65 Leq (dBA)	13-Jun-12	57.0 Leq (dBA)	Pass	Y	TP7-06-13-2012-1239-1449	13-Jun	58.4 dBA	Pass	Y		Sample location is South west of Ferry Street Bridge. Importing and installing clay to Phase I near weigh scale.	
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		14-Jun-12	Turbidity-TP7-Upstream COB - 14 Jun 2012 - 0730 Turbidity-TP7-Upstream COB - 14 Jun 2012 - 1000 Turbidity-TP7-Upstream COB - 14 Jun 2012 - 1100 Turbidity-TP7-Upstream WB - 14 Jun 2012 - 0730 Turbidity-TP7-Midstream - 14 Jun 2012 - 0730 Turbidity-TP7-Downstream - 14 Jun 2012 - 0730	8 NTU above background	14-Jun-12	1.8 NTU 9.3 NTU 7.5 NTU 1.9 NTU 2.2 NTU 2.5 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		14-Jun-12	Turbidity-TP7-Upstream COB - 14 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 14 Jun 2012 - 1130 Turbidity-TP7-Midstream - 14 Jun 2012 - 1130 Turbidity-TP7-Downstream - 14 Jun 2012 - 1130	8 NTU above background	14-Jun-12	1.9 NTU 1.6 NTU 2.2 NTU 2.0 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		14-Jun-12	Turbidity-TP7-Upstream COB - 14 Jun 2012 - 1530 Turbidity-TP7-Upstream WB - 14 Jun 2012 - 1530 Turbidity-TP7-Midstream - 14 Jun 2012 - 1530 Turbidity-TP7-Downstream - 14 Jun 2012 - 1530	8 NTU above background	14-Jun-12	2.6 NTU 1.9 NTU 2.2 NTU 2.5 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		15-Jun-12	Turbidity-TP7-Upstream COB - 15 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 15 Jun 2012 - 0730 Turbidity-TP7-Midstream - 15 Jun 2012 - 0730 Turbidity-TP7-Downstream - 15 Jun 2012 - 0730	8 NTU above background	15-Jun-12	1.9 NTU 1.9 NTU 1.6 NTU 1.7 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		15-Jun-12	Turbidity-TP7-Upstream COB - 15 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 15 Jun 2012 - 1130 Turbidity-TP7-Midstream - 15 Jun 2012 - 1130 Turbidity-TP7-Downstream - 15 Jun 2012 - 1130	8 NTU above background	15-Jun-12	2.2 NTU 1.6 NTU 1.8 NTU 1.7 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		15-Jun-12	Turbidity-TP7-Upstream COB - 15 Jun 2012 - 1530 Turbidity-TP7-Upstream WB - 15 Jun 2012 - 1530 Turbidity-TP7-Midstream - 15 Jun 2012 - 1530 Turbidity-TP7-Downstream - 15 Jun 2012 - 1530	8 NTU above background	15-Jun-12	2.3 NTU 1.8 NTU 1.9 NTU 1.8 NTU	Pass	Y								
Week 4																				
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		18-Jun-12	Turbidity-TP7-Upstream COB - 18 Jun 2012 - 0730 Turbidity-TP7-Ups Outflow 2COB - 18 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 18 Jun 2012 - 0730 Turbidity-TP7-Midstream - 18 Jun 2012 - 0730 Turbidity-TP7-Downstream - 18 Jun 2012 - 0730	8 NTU above background	18-Jun-12	2.5 NTU 3.2 NTU 1.9 NTU 1.3 NTU 1.1 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		18-Jun-12	Turbidity-TP7-Upstream COB - 18 Jun 2012 - 1130 Turbidity-TP7-Ups Outflow 2COB - 18 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 18 Jun 2012 - 1130 Turbidity-TP7-Midstream - 18 Jun 2012 - 1130 Turbidity-TP7-Downstream - 18 Jun 2012 - 1130	8 NTU above background	18-Jun-12	2.7 NTU 3.0 NTU 1.7 NTU 1.3 NTU 1.2 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		18-Jun-12	Turbidity-TP7-Upstream COB - 18 Jun 2012 - 1530 Turbidity-TP7-Upstream WB - 18 Jun 2012 - 1530 Turbidity-TP7-Midstream - 18 Jun 2012 - 1530 Turbidity-TP7-Downstream - 18 Jun 2012 - 1530	8 NTU above background	18-Jun-12	2.8 NTU 1.9 NTU 1.4 NTU 1.4 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		19-Jun-12	Turbidity-TP7-Upstream COB - 19 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 19 Jun 2012 - 0730 Turbidity-TP7-Midstream - 19 Jun 2012 - 0730 Turbidity-TP7-Downstream - 19 Jun 2012 - 0730	8 NTU above background	19-Jun-12	4.4 NTU 1.9 NTU 1.7 NTU 1.2 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		19-Jun-12	Turbidity-TP7-Upstream COB - 19 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 19 Jun 2012 - 1130 Turbidity-TP7-Midstream - 19 Jun 2012 - 1130 Turbidity-TP7-Downstream - 19 Jun 2012 - 1130	8 NTU above background	19-Jun-12	1.8 NTU 2.0 NTU 1.8 NTU 2.1 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		19-Jun-12	Turbidity-TP7-Upstream COB - 19 Jun 2012 - 1530 Turbidity-TP7-Upstream WB - 19 Jun 2012 - 1530 Turbidity-TP7-Midstream - 19 Jun 2012 - 1530 Turbidity-TP7-Downstream - 19 Jun 2012 - 1530	8 NTU above background	19-Jun-12	2.8 NTU 2.1 NTU 1.5 NTU 1.4 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		20-Jun-12	Turbidity-TP7-Upstream COB - 20 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 20 Jun 2012 - 0730 Turbidity-TP7-Midstream - 20 Jun 2012 - 0730 Turbidity-TP7-Downstream - 20 Jun 2012 - 0730	8 NTU above background	20-Jun-12	2.8 NTU 1.5 NTU 0.9 NTU 1.6 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		20-Jun-12	Turbidity-TP7-Upstream COB - 20 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 20 Jun 2012 - 1130 Turbidity-TP7-Midstream - 20 Jun 2012 - 1130 Turbidity-TP7-Downstream - 20 Jun 2012 - 1130	8 NTU above background	20-Jun-12	2.2 NTU 1.3 NTU 1.2 NTU 1.6 NTU	Pass	Y								



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

Contractor:	Tervita	Client:	STPA	Form Number:	97918-QAF-073
Element:	TP 7	Oversight:	AECOM/CBCL	Project:	Remediation of the Tar Ponds and Coke Ovens Sites
		IQAC:	Stantec		

- Weekly
- Monthly

From: 27-May-12 30-Jun-12

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	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		20-Jun-12	Turbidity-TP7-Upstream COB - 20 Jun 2012 - 1530 Turbidity-TP7-Upstream WB - 20 Jun 2012 - 1530 Turbidity-TP7-Midstream - 20 Jun 2012 - 1530 Turbidity-TP7-Downstream - 20 Jun 2012 - 1530	8 NTU above background	20-Jun-12	4.2 NTU 2.1 NTU 1.1 NTU 1.8 NTU	Pass	Y	TP7-06-20-2012-Upstream COB TP7-06-20-2012-Upstream WB TP7-06-20-2012-Midstream TP7-06-20-2012-Downstream	20-Jun	4.14 NTU 1.50 NTU 0.88 NTU 1.22 NTU	Pass	Yes		Samples were collected in accordance with the EPP. Please refer to the weekly IQAC Site Testing Summary for further details.	
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		21-Jun-12	Turbidity-TP7-Upstream COB - 21 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 21 Jun 2012 - 0730 Turbidity-TP7-Midstream - 21 Jun 2012 - 0730 Turbidity-TP7-Downstream - 21 Jun 2012 - 0730	8 NTU above background	21-Jun-12	2.5 NTU 1.5 NTU 1.5 NTU 1.6 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		21-Jun-12	Turbidity-TP7-Upstream COB - 21 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 21 Jun 2012 - 1130 Turbidity-TP7-Midstream - 21 Jun 2012 - 1130 Turbidity-TP7-Downstream - 21 Jun 2012 - 1130	8 NTU above background	21-Jun-12	2.6 NTU 1.2 NTU 1.2 NTU 1.3 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		21-Jun-12	Turbidity-TP7-Upstream COB - 21 Jun 2012 - 1530 Turbidity-TP7-Upstream WB - 21 Jun 2012 - 1530 Turbidity-TP7-Midstream - 21 Jun 2012 - 1530 Turbidity-TP7-Downstream - 21 Jun 2012 - 1530	8 NTU above background	21-Jun-12	2.4 NTU 1.2 NTU 1.3 NTU 1.6 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		22-Jun-12	Turbidity-TP7-Upstream COB - 22 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 22 Jun 2012 - 0730 Turbidity-TP7-Midstream - 22 Jun 2012 - 0730 Turbidity-TP7-Downstream - 22 Jun 2012 - 0730	8 NTU above background	22-Jun-12	2.4 NTU 1.9 NTU 2.2 NTU 1.7 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		22-Jun-12	Turbidity-TP7-Upstream COB - 22 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 22 Jun 2012 - 1130 Turbidity-TP7-Midstream - 22 Jun 2012 - 1130 Turbidity-TP7-Downstream - 22 Jun 2012 - 1130	8 NTU above background	22-Jun-12	2.3 NTU 1.8 NTU 1.3 NTU 1.6 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		22-Jun-12	Turbidity-TP7-Upstream COB - 22 Jun 2012 - 1530 Turbidity-TP7-Upstream WB - 22 Jun 2012 - 1530 Turbidity-TP7-Midstream - 22 Jun 2012 - 1530 Turbidity-TP7-Downstream - 22 Jun 2012 - 1530	8 NTU above background	22-Jun-12	1.8 NTU 1.5 NTU 2.2 NTU 1.5 NTU	Pass	Y								
Week 5																				
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		25-Jun-12	Turbidity-TP7-Upstream COB - 25 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 25 Jun 2012 - 0730 Turbidity-TP7-Midstream - 25 Jun 2012 - 0730 Turbidity-TP7-Downstream - 25 Jun 2012 - 0730	8 NTU above background	25-Jun-12	2.6 NTU 2.3 NTU 2.4 NTU 2.9 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		25-Jun-12	Turbidity-TP7-Upstream COB - 25 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 25 Jun 2012 - 1130 Turbidity-TP7-Midstream - 25 Jun 2012 - 1130 Turbidity-TP7-Downstream - 25 Jun 2012 - 1130	8 NTU above background	25-Jun-12	2.5 NTU 1.9 NTU 1.7 NTU 1.8 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		25-Jun-12	Turbidity-TP7-Upstream COB - 25 Jun 2012 - 1530 Turbidity-TP7-Upstream WB - 25 Jun 2012 - 1530 Turbidity-TP7-Midstream - 25 Jun 2012 - 1530 Turbidity-TP7-Downstream - 25 Jun 2012 - 1530	8 NTU above background	25-Jun-12	3.6 NTU 2.6 NTU 2.0 NTU 2.1 NTU	Pass	Y	TP7-06-25-2012-Upstream COB TP7-06-25-2012-Upstream WB TP7-06-25-2012-Midstream TP7-06-25-2012-Downstream	25-Jun	3.29 NTU 2.52 NTU 1.57 NTU 1.61 NTU	Pass	Yes		Samples were collected in accordance with the EPP. Please refer to the weekly IQAC Site Testing Summary for further details.	
ENV-T-01	Noise Monitoring	Noise Monitoring with dosimeter or equivalent	CBRM Bylaw and NSE Criteria	Once weekly		25-Jun-12	Noise-TP7-Phase1 Main Scale Entrance - 25 June 2012	CBRM Bylaw and NSE Criteria 65 Leq (dBA)	25-Jun-12	61.1 Leq (dBA)	Pass	Y								
ENV-T-01	Noise Monitoring	Noise Monitoring with dosimeter or equivalent	CBRM Bylaw and NSE Criteria	Once weekly		25-Jun-12	Noise-TP7-Phase2 Above Ramp Hill - 25 June 2012	CBRM Bylaw and NSE Criteria 65 Leq (dBA)	25-Jun-12	59 Leq (dBA)	Pass	Y								
ENV-T-01	Noise Monitoring	Noise Monitoring with dosimeter or equivalent	CBRM Bylaw and NSE Criteria	Once weekly		25-Jun-12	Noise-TP7-Phase2 SW of Ferry Bridge - 25 June 2012	CBRM Bylaw and NSE Criteria 65 Leq (dBA)	25-Jun-12	61.2 Leq (dBA)	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		26-Jun-12	Turbidity-TP7-Upstream COB - 26 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 26 Jun 2012 - 0730 Turbidity-TP7-Midstream - 26 Jun 2012 - 0730 Turbidity-TP7-Downstream - 26 Jun 2012 - 0730	8 NTU above background	26-Jun-12	3.6 NTU 2.3 NTU 2.2 NTU 2.6 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		26-Jun-12	Turbidity-TP7-Upstream COB - 26 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 26 Jun 2012 - 1130 Turbidity-TP7-Midstream - 26 Jun 2012 - 1130 Turbidity-TP7-Downstream - 26 Jun 2012 - 1130	8 NTU above background	26-Jun-12	3.3 NTU 2.9 NTU 1.9 NTU 2.1 NTU	Pass	Y							**Work activity completed at 1500.	
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		27-Jun-12	Turbidity-TP7-Upstream COB - 27 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 27 Jun 2012 - 0730 Turbidity-TP7-Midstream - 27 Jun 2012 - 0730 Turbidity-TP7-Downstream - 27 Jun 2012 - 0730	8 NTU above background	27-Jun-12	10.6 NTU 14.2 NTU 41 NTU 29 NTU	Fail	N							1. visible turbidity in main channel after strong winds and rain overnight, turbidity most noticeable N of ferry bridge and narrows bridge, took additional readings below: 26 June 2012, 0730, BOD. * 0830 - CO = 8.7, WB = 15.1, MD = 40, DN = 61, noticed very turbid water coming from phase3 runoff pipe took sample = 661** * 0930 - CO = 5.3, WB = 14.1, MD = 34.6, DN = 48.4, P3R = 48.2. * 1030 - CO = 4.8, WB = 13.8, MD = 32.6, DN = 44.1, P3R = 37.6. 2. Based on field observations and Turbidity monitoring results, turbidity in Channel attributed to construction activities (breaches in silt fencing, erosion at exposed material) and off-site water migrating onto Site. 0936, 29 June 2012, KO. 3. Erosion and sediment controls put to a test (heavy rains overnight), and some deficiencies were evident. In Particular low-lying areas of silt fence in Phase II were breached, these areas required addressing. DE suggested using straw bale/filter cloth horseshoe shaped berms between silt fence and Channel. Strong enough with enough volume to hold back sediment laden runoff from the cap. 0938 29 June 2012, KO	
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		27-Jun-12	Turbidity-TP7-Upstream COB - 27 Jun 2012 - 0830 Turbidity-TP7-Upstream WB - 27 Jun 2012 - 0830 Turbidity-TP7-Midstream - 27 Jun 2012 - 0830 Turbidity-TP7-Downstream - 27 Jun 2012 - 0830 Turbidity-TP7-Downstream(P3R) - 27 Jun 2012 - 0830	8 NTU above background	27-Jun-12	8.7 NTU 15.1 NTU 40 NTU 61 NTU 661 NTU	Fail	N							1. visible turbidity in main channel after strong winds and rain overnight, turbidity most noticeable N of ferry bridge and narrows bridge, took additional readings below: 26 June 2012, 0730, BOD. * 0830 - CO = 8.7, WB = 15.1, MD = 40, DN = 61, noticed very turbid water coming from phase3 runoff pipe took sample = 661** * 0930 - CO = 5.3, WB = 14.1, MD = 34.6, DN = 48.4, P3R = 48.2. * 1030 - CO = 4.8, WB = 13.8, MD = 32.6, DN = 44.1, P3R = 37.6. 2. Based on field observations and Turbidity monitoring results, turbidity in Channel attributed to construction activities (breaches in silt fencing, erosion at exposed material) and off-site water migrating onto Site. 0936, 29 June 2012, KO. 3. Erosion and sediment controls put to a test (heavy rains overnight), and some deficiencies were evident. In Particular low-lying areas of silt fence in Phase II were breached, these areas required addressing. DE suggested using straw bale/filter cloth horseshoe shaped berms between silt fence and Channel. Strong enough with enough volume to hold back sediment laden runoff from the cap. 0938 29 June 2012, KO	
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		27-Jun-12	Turbidity-TP7-Upstream COB - 27 Jun 2012 - 0930 Turbidity-TP7-Upstream WB - 27 Jun 2012 - 0930 Turbidity-TP7-Midstream - 27 Jun 2012 - 0930 Turbidity-TP7-Downstream - 27 Jun 2012 - 0930 Turbidity-TP7-Downstream(P3R) - 27 Jun 2012 - 0930	8 NTU above background	27-Jun-12	5.3 NTU 14.1 NTU 34.6 NTU 48.4 NTU 48.2 NTU	Fail	N							1. visible turbidity in main channel after strong winds and rain overnight, turbidity most noticeable N of ferry bridge and narrows bridge, took additional readings below: 26 June 2012, 0730, BOD. * 0830 - CO = 8.7, WB = 15.1, MD = 40, DN = 61, noticed very turbid water coming from phase3 runoff pipe took sample = 661** * 0930 - CO = 5.3, WB = 14.1, MD = 34.6, DN = 48.4, P3R = 48.2. * 1030 - CO = 4.8, WB = 13.8, MD = 32.6, DN = 44.1, P3R = 37.6. 2. Based on field observations and Turbidity monitoring results, turbidity in Channel attributed to construction activities (breaches in silt fencing, erosion at exposed material) and off-site water migrating onto Site. 0936, 29 June 2012, KO. 3. Erosion and sediment controls put to a test (heavy rains overnight), and some deficiencies were evident. In Particular low-lying areas of silt fence in Phase II were breached, these areas required addressing. DE suggested using straw bale/filter cloth horseshoe shaped berms between silt fence and Channel. Strong enough with enough volume to hold back sediment laden runoff from the cap. 0938 29 June 2012, KO	

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

- Weekly
- Monthly

From: 27-May-12 30-Jun-12

Contractor:	Tervita	Client:	STPA	Form Number:	97918-QAF-073
Element:	TP 7	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	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		27-Jun-12	Turbidity-TP7-Upstream COB - 27 Jun 2012 - 1030 Turbidity-TP7-Upstream WB - 27 Jun 2012 - 1030 Turbidity-TP7-Midstream - 27 Jun 2012 - 1030 Turbidity-TP7-Downstream - 27 Jun 2012 - 1030 Turbidity-TP7-Downstream(P3R) - 27 Jun 2012 - 1030	8 NTU above background	27-Jun-12	4.8 NTU 13.8 NTU 32.6 NTU 44.1 NTU 37.6 NTU	Fail	N							1. visible turbidity in main channel after strong winds and rain overnight, turbidity most noticeable N of ferry bridge and narrows bridge, took additional readings below: 26 June 2012, 0730, BOD. * 0830 - CO = 8.7, WB = 15.1, MD = 40, DN = 61, noticed very turbid water coming from phase3 runoff pipe took sample = 55.1** * 0930 - CO = 5.3, WB = 14.1, MD = 34.6, DN = 48.4, P3R = 48.2. * 1030 - CO = 4.8, WB = 13.8, MD = 32.6, DN = 44.1, P3R = 37.6. 2. Based on field observations and Turbidity monitoring results, turbidity in Channel attributed to construction activities (breaches in silt fencing, erosion at exposed material) and off-site water migrating onto Site, 0936, 29 June 2012, KO. 3. Erosion and sediment controls put to a test (heavy rains overnight), and some deficiencies were evident. In Particular low-lying areas of silt fence in Phase II were breached, these areas required addressing, DE suggested using straw bale/filter cloth horseshoe shaped berms between silt fence and Channel. Strong enough with enough volume to hold back sediment laden runoff from the cap. 0938 29 June 2012, KO	
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		27-Jun-12	Turbidity-TP7-Upstream COB - 27 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 27 Jun 2012 - 1130 Turbidity-TP7-Midstream - 27 Jun 2012 - 1130 Turbidity-TP7-Downstream - 27 Jun 2012 - 1130 Turbidity-TP7-Downstream(P3R) - 27 Jun 2012 - 1130	8 NTU above background	27-Jun-12	2.7 NTU 12.4 NTU 26.2 NTU 34.9 NTU 33.5 NTU	Fail	N							1. visible turbidity in main channel after strong winds and rain overnight, turbidity most noticeable N of ferry bridge and narrows bridge, took additional readings below: 27 June 2012, 1130, BOD. * 1230 - CO = 3.8, WB = 11.8, MD = 25.4, DN = 39.1P3R = 31.7. * 1330 - CO = 4.1, WB = 11.2, MD = 21.7, DN = 35.4, P3R = 33.3. * 1430 - CO = 3.5, WB = 11.1, MD = 23.1, DN = 32.7, P3R = 29.7. 2. Spread hay bales in a horseshoe shape on both sides of swale on phase1 SW of ferry bridge, 27 June 2012, 1300, BOD.	
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		27-Jun-12	Turbidity-TP7-Upstream COB - 27 Jun 2012 - 1230 Turbidity-TP7-Upstream WB - 27 Jun 2012 - 1230 Turbidity-TP7-Midstream - 27 Jun 2012 - 1230 Turbidity-TP7-Downstream - 27 Jun 2012 - 1230 Turbidity-TP7-Downstream(P3R) - 27 Jun 2012 - 1230	8 NTU above background	27-Jun-12	3.8 NTU 11.8 NTU 25.4 NTU 39.1 NTU 31.7 NTU	Fail	N							1. visible turbidity in main channel after strong winds and rain overnight, turbidity most noticeable N of ferry bridge and narrows bridge, took additional readings below: 27 June 2012, 1130, BOD. * 1230 - CO = 3.8, WB = 11.8, MD = 25.4, DN = 39.1P3R = 31.7. * 1330 - CO = 4.1, WB = 11.2, MD = 21.7, DN = 35.4, P3R = 33.3. * 1430 - CO = 3.5, WB = 11.1, MD = 23.1, DN = 32.7, P3R = 29.7. 2. Spread hay bales in a horseshoe shape on both sides of swale on phase1 SW of ferry bridge, 27 June 2012, 1300, BOD.	
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		27-Jun-12	Turbidity-TP7-Upstream COB - 27 Jun 2012 - 1330 Turbidity-TP7-Upstream WB - 27 Jun 2012 - 1330 Turbidity-TP7-Midstream - 27 Jun 2012 - 1330 Turbidity-TP7-Downstream - 27 Jun 2012 - 1330 Turbidity-TP7-Downstream(P3R) - 27 Jun 2012 - 1330	8 NTU above background	27-Jun-12	4.1 NTU 11.2 NTU 21.7 NTU 35.4 NTU 33.3 NTU	Fail	N							1. visible turbidity in main channel after strong winds and rain overnight, turbidity most noticeable N of ferry bridge and narrows bridge, took additional readings below: 27 June 2012, 1130, BOD. * 1230 - CO = 3.8, WB = 11.8, MD = 25.4, DN = 39.1P3R = 31.7. * 1330 - CO = 4.1, WB = 11.2, MD = 21.7, DN = 35.4, P3R = 33.3. * 1430 - CO = 3.5, WB = 11.1, MD = 23.1, DN = 32.7, P3R = 29.7. 2. Spread hay bales in a horseshoe shape on both sides of swale on phase1 SW of ferry bridge, 27 June 2012, 1300, BOD.	
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		27-Jun-12	Turbidity-TP7-Upstream COB - 27 Jun 2012 - 1430 Turbidity-TP7-Upstream WB - 27 Jun 2012 - 1430 Turbidity-TP7-Midstream - 27 Jun 2012 - 1430 Turbidity-TP7-Downstream - 27 Jun 2012 - 1430 Turbidity-TP7-Downstream(P3R) - 27 Jun 2012 - 1430	8 NTU above background	27-Jun-12	3.5 NTU 11.1 NTU 23.1 NTU 32.7 NTU 29.7 NTU	Fail	N							1. visible turbidity in main channel after strong winds and rain overnight, turbidity most noticeable N of ferry bridge and narrows bridge, took additional readings below: 27 June 2012, 1130, BOD. * 1230 - CO = 3.8, WB = 11.8, MD = 25.4, DN = 39.1P3R = 31.7. * 1330 - CO = 4.1, WB = 11.2, MD = 21.7, DN = 35.4, P3R = 33.3. * 1430 - CO = 3.5, WB = 11.1, MD = 23.1, DN = 32.7, P3R = 29.7. 2. Spread hay bales in a horseshoe shape on both sides of swale on phase1 SW of ferry bridge, 27 June 2012, 1300, BOD.	
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		27-Jun-12	Turbidity-TP7-Upstream COB - 27 Jun 2012 - 1530 Turbidity-TP7-Upstream WB - 27 Jun 2012 - 1530 Turbidity-TP7-Midstream - 27 Jun 2012 - 1530 Turbidity-TP7-Downstream - 27 Jun 2012 - 1530 Turbidity-TP7-Downstream(P3R) - 27 Jun 2012 - 1530	8 NTU above background	27-Jun-12	3.2 NTU 10.8 NTU 22.5 NTU 31.2 NTU	Fail	N							1. Water still visibly turbid from N of ferry bridge to narrows bridge, still turbidity exceedance, 27 June 2012, 1530, BOD. 2. Silt fence repairs will not hold up if another heavy rain events occurs. Silt fencing requires more support/addressing. 29 June 09:41, KO	
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		28-Jun-12	Turbidity-TP7-Upstream COB - 28 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 28 Jun 2012 - 0730 Turbidity-TP7-Midstream - 28 Jun 2012 - 0730 Turbidity-TP7-Downstream - 28 Jun 2012 - 0730	8 NTU above background	28-Jun-12	2.3 NTU 3.6 NTU 7.9 NTU 12 NTU	Fail	N							1. slight exceedance in turbidity readings, due to water being held back at narrows bridge from previous day, 28 June 2012, 0730, BOD.	
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		28-Jun-12	Turbidity-TP7-Upstream COB - 28 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 28 Jun 2012 - 1130 Turbidity-TP7-Midstream - 28 Jun 2012 - 1130 Turbidity-TP7-Downstream - 28 Jun 2012 - 1130	8 NTU above background	28-Jun-12	2.1 NTU 3.9 NTU 7.2 NTU 10.2 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		28-Jun-12	Turbidity-TP7-Upstream COB - 28 Jun 2012 - 1530 Turbidity-TP7-Upstream WB - 28 Jun 2012 - 1530 Turbidity-TP7-Midstream - 28 Jun 2012 - 1530 Turbidity-TP7-Downstream - 28 Jun 2012 - 1530	8 NTU above background	28-Jun-12	2.4 NTU 3.9 NTU 7.4 NTU 9.5 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		29-Jun-12	Turbidity-TP7-Upstream COB - 29 Jun 2012 - 0730 Turbidity-TP7-Upstream WB - 29 Jun 2012 - 0730 Turbidity-TP7-Midstream - 29 Jun 2012 - 0730 Turbidity-TP7-Downstream - 29 Jun 2012 - 0730	8 NTU above background	29-Jun-12	1.9 NTU 2.4 NTU 5.6 NTU 8.5 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		29-Jun-12	Turbidity-TP7-Upstream COB - 29 Jun 2012 - 1130 Turbidity-TP7-Upstream WB - 29 Jun 2012 - 1130 Turbidity-TP7-Midstream - 29 Jun 2012 - 1130 Turbidity-TP7-Downstream - 29 Jun 2012 - 1130	8 NTU above background	29-Jun-12	2.2 NTU 2.7 NTU 5.5 NTU 6.7 NTU	Pass	Y								
ENV-T-02	Turbidity Monitoring	Turbidity sampling with portable turbidity meter	EPP Req.	Every 4 hrs		29-Jun-12	Turbidity-TP7-Upstream COB - 29 Jun 2012 - 1530 Turbidity-TP7-Upstream WB - 29 Jun 2012 - 1530 Turbidity-TP7-Midstream - 29 Jun 2012 - 1530 Turbidity-TP7-Downstream - 29 Jun 2012 - 1530	8 NTU above background	29-Jun-12	2.3 NTU 2.5 NTU 5.8 NTU 6.5 NTU	Pass	Y								



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October 03, 2012
File: 121410955.215

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

Attention: Mr. Claude Goora, P.Eng. , PMP, Quality Contracts Manager

Dear Mr. Goora:

**Reference: Extras Section - STPA Project Element TP7
Independent Quality Assurance (IQAC) June 2012 Monthly Summary Report**

At the request of Sydney Tar Ponds Agency (STPA), Stantec Consulting Limited (Stantec) has no reportable extra items to include in this section of the (IQAC) June 2012 Monthly Summary Report

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

Sincerely,

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