



Stantec

Stantec Consulting Ltd
207-201 Churchill Drive
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August 14, 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 – May 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 May 1 and May 31, 2012:

- Project Item PM-01: Five daily field reports.
- Project Item PM-03: One monthly report (May 2012) completed by Stantec in the month of August 2012.
- Project Item PM-04: One site meeting was attended on May 31, 2012.
- Project Item PM-05: Other meetings and frequent opinions and emails were provided by Stantec in the month of May 2012.
- Project Item PM-10: One weekly quality QC/QA meeting and preparation for the meeting.
- Project Item QCP-02: Submittal reviews (May 2012 QC monthly/daily and testing/inspection reports).
- Project Item TS-112: Completed two site visits on May 11 and 25, 2012 to assess the compaction of placed protective and/or low permeable fills. All measured compaction readings met the specified 95% minimum compaction criterion. The 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. The May 16, 2012 noise monitoring event at the West Access Road was not within the specified limit due to heavy truck traffic in the area. See Monthly Noise QA Testing Summary table in this report for further information.
- Project Item ENV-T-02: Four surface water (turbidity) sampling events. All measurements recorded were within the acceptable range.
- Project Item Extras: On May 4, 2012, Stantec completed a site visit to Beechmont road quarry to sample bedding sand for sieve analysis testing. Test result of the sampled bedding sand did not meet the project specifications.

August 14, 2012

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

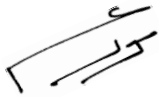
Page 2 of 2

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



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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 | |
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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 | |
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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



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

| | | | |
|---|--|--|---|
| Date: | May 11, 2012 | IQAC On-Site Rep: | Enzo Poloni |
| 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: | 1220 |
| Weather: | Mainly Cloudy, 16°C, S @ 19km | | |
| Area Tested/Inspected: | TP7 – North/South Pond Channels | | |
| Inspection / Testing Summary | | | |
| <p>Onsite at 1220 meeting Anthony Mozzacco with sampling beginning downstream working to upstream. Channel from mid to downstream noticeably turbid with activities noted as trucking in and laying/rolling clay in the North Pond area.</p> <p>Samples analyzed upon extraction.</p> | | | |
| Sample # | GPS Co-ordinates (NAD 83 – Northing/Easting) | General Site Description | Sample Results (NTU) |
| 1 | 460 1238 511 2438 | South Pond Channel Upstream | 4.64 |
| 2 | 460 0854 511 2947 | North Pond Channel Before Pumps Midstream | 13.3 |
| 3 | 460 0094 511 3312 | Battery Point Halo Landing | 3.73 |
| <p>As stated in the Environmental Protection Plan – <i>“The upper level criteria defined as a reportable event for turbidity will be 110% of background, when background (upstream sample location) is greater than or equal to 80 Nephelometric Turbidity Units (NTU). When background is less than 80NTU, a reportable event will be greater than an increase of 8NTU above background”</i></p> <p><i>Turbidity values recorded above are within acceptable levels.</i></p> | | | |
| IQAC Review and Acceptance | | | |
| IQAC On-Site Rep (Sign/Print/Date): |  /Enzo Poloni, B.Tech. (Env) | IQAC Management Review (Sign/Print/Date): |  /Jamie Tunnicliff, B.Sc., B.Eng. |
| | May 11, 2012 | | May 11, 2012 |



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

| | | | |
|---|--|--|---|
| Date: | May 16, 2012 | IQAC On-Site Rep: | Enzo Poloni |
| 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: | 1130 |
| Weather: | Partly Cloudy, 19°C, SSW @ 24km | | |
| Area Tested/Inspected: | TP7 – North/South Pond Channel | | |
| Inspection / Testing Summary | | | |
| <p>Onsite at 1130 with Kathleen meeting Brian O'Donnell. Sampling began immediately with downstream (At the suction pit). Channels noted as slightly turbid. Activities noted as clay laydown/rolling and tracking to Phase II – North Pond Channel.</p> <p>Samples analyzed upon extraction.</p> | | | |
| Sample # | GPS Co-ordinates (NAD 83 – Northing/Easting) | General Site Description | Sample Results (NTU) |
| 1 | 460 0841 511 2974 | North/South Pond Channel Downstream | 3.68 |
| 2 | 460 0971 511 2797 | North/South Pond Channel Midstream | 4.04 |
| 3 | 460 1240 511 2447 | North/South Pond Channel Upstream | 2.71 |
| <p>As stated in the Environmental Protection Plan – <i>“The upper level criteria defined as a reportable event for turbidity will be 110% of background, when background (upstream sample location) is greater than or equal to 80 Nephelometric Turbidity Units (NTU). When background is less than 80NTU, a reportable event will be greater than an increase of 8NTU above background”</i></p> <p><i>Turbidity values recorded above are within acceptable levels.</i></p> | | | |
| IQAC Review and Acceptance | | | |
| IQAC On-Site Rep (Sign/Print/Date): |  /Enzo Poloni, B.Tech. (Env) | IQAC Management Review (Sign/Print/Date): |  /Jamie Tunnicliff, B.Sc., B.Eng. |
| | May 16, 2012 | | May 16, 2012 |

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

| | | | |
|--|--|--|---|
| Date: | May 25, 2012 | IQAC On-Site Rep: | Enzo Poloni |
| 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: | 1335 |
| Weather: | Clear, 18°C, S @ 24km | | |
| Area Tested/Inspected: | TP7 – North/South Pond Channel | | |
| Inspection / Testing Summary | | | |
| <p>Met Brian O'Donnell onsite for 1335 beginning sampling in North Channel to upstream (South Pond Channel/Coke Oven Brook intersection). Brian noted of Coke Oven Brook as turbid due to pumping and required 2 samples as well. Coke Oven Brook noted as turbid with (floating) flocculent from TP7's pumping. Installation of manholes (of Eastside trench/South Pond) with pumping clay laydown/rolling at North Channel area noted for activities.</p> <p>Samples analyzed upon extraction.</p> | | | |
| Sample # | GPS Co-ordinates (NAD 83 – Northing/Easting) | General Site Description | Sample Results (NTU) |
| 1 | 460 0827 511 2995 | Downstream | 3.15 |
| 2 | 460 1005 511 2782 | Midstream | 2.31 |
| 3 | 460 1270 511 2336 | Upstream | 3.01 |
| 4 | 460 1503 511 2446 | Coke Oven Brook Midstream | 9.39 |
| 5 | 460 1688 511 2455 | Coke Oven Brook Upstream | 2.41 |
| <p>As stated in the Environmental Protection Plan – <i>“The upper level criteria defined as a reportable event for turbidity will be 110% of background, when background (upstream sample location) is greater than or equal to 80 Nephelometric Turbidity Units (NTU). When background is less than 80NTU, a reportable event will be greater than an increase of 8NTU above background”</i></p> <p><i>Turbidity values recorded above are within acceptable levels.</i></p> | | | |
| IQAC Review and Acceptance | | | |
| IQAC On-Site Rep (Sign/Print/Date): |  /Enzo Poloni, B.Tech. (Env) | IQAC Management Review (Sign/Print/Date): |  /Jamie Tunnicliff, B.Sc., B.Eng. |
| | May 25, 2012 | | May 25, 2012 |

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

| | | | |
|--|--|--|---|
| Date: | May 30, 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: | 1455 |
| Weather: | Rain, 7°C | | |
| Area Tested/Inspected: | TP7 – North/South Pond Channel | | |
| Inspection / Testing Summary | | | |
| <p>Met contractor on West Side of channel near the narrows at 1500. Sampled downstream before fish screens, midstream near Ferry Street and upstream across from Coke Ovens Brook. Next sampled upstream of Coke Ovens Brook after culvert and before debris curtain then downstream approximately halfway between culvert (Inglis St) and Main Channel. Samples were tested back at site trailer. Began sampling at 1600 and finished at 1645. Exceedances were noted at both Coke Ovens Brook locations. Contractor activities for the day included pushing clay in Phase II until 1200 and installing manholes near the weighscale at main entrance to Phase I off Inglis St until 1500. Both activities were postponed due to heavy rain.</p> <p>Samples analyzed upon extraction.</p> | | | |
| Sample # | GPS Co-ordinates (NAD 83 – Northing/Easting) | General Site Description | Sample Results (NTU) |
| 1 | 460 0828 511 2991 | Main Channel Downstream | 1.70 |
| 2 | 460 1011 511 2779 | Main Channel Midstream | 1.84 |
| 3 | 460 1264 511 2359 | Main Channel Upstream | 2.83 |
| 4 | 460 1689 511 2456 | Coke Ovens Brook Upstream (Exceedance) | 27.0 |
| 5 | 460 1502 511 2446 | Coke Ovens Brook Downstream (Exceedance) | 46.1 |
| <p>As stated in the Environmental Protection Plan – <i>“The upper level criteria defined as a reportable event for turbidity will be 110% of background, when background (upstream sample location) is greater than or equal to 80 Nephelometric Turbidity Units (NTU). When background is less than 80NTU, a reportable event will be greater than an increase of 8NTU above background”</i></p> <p><i>Three of the Turbidity values recorded above are within acceptable levels.</i></p> | | | |
| 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. |
| | May 30, 2012 | | May 30, 2012 |

Monthly Noise QA Testing Summary Table

| | | | | | |
|--------------------|---------|-------------------|------------|---------------------|---|
| Contractor: | Tervita | Client: | STPA | Form Number: | TP7 Noise April 2012 |
| Element: | TP7 | Oversight: | AECOM/CBCL | Project: | Remediation of the Tar Ponds and Coke Ovens Sites |
| Month: | Apr-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 | 30-Apr-12 | <65 dBA | TP7-04-30-2012-0820-1021 | 460 1594 511 2646 | 57.2 dBA | Pass | Y | Sample location is along Inglis Street fenceline near Schalehouse. Contractors transitting area and Inglis street entrance. |
| EPP | ENV-T-01 | Noise | CBRM Noise By-Law & NSE Criteria | once per month | 30-Apr-12 | <65 dBA | TP7-04-30-2012-1025-1226 | 460 1322 511 2757 | 64.5 dBA | Pass | Y | Sample location is at Ferry Street Clean (Constructed) Access Road. Contractors transitting area. TP6B (Nordleys) machinery active in area. TP7 scarifying nearby. |
| EPP | ENV-T-01 | Noise | CBRM Noise By-Law & NSE Criteria | once per month | 30-Apr-12 | <65 dBA | TP7-04-30-2012-1305-1507 | 460 1134 511 2508 | 64.1 dBA | Pass | Y | Sample location is 75m South of Ferry Street along West Access Road. Tervita scarifying/excavating section of South Pond. TP6C active with tracking/excavating. TP6A (McNally) excavator tracking West Access Road. |

Activities onsite at the time of the sampling events include contractor transitting, scarifying and exvacating

Monthly Noise QA Testing Summary Table

| | | | | | |
|--------------------|---------|-------------------|------------|---------------------|---|
| Contractor: | Tervita | Client: | STPA | Form Number: | TP7 Noise May 2012 |
| Element: | TP7 | Oversight: | AECOM/CBCL | Project: | Remediation of the Tar Ponds and Coke Ovens Sites |
| Month: | May-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 | 16-May-12 | <65 dBA | TP7-05-16-2012-0716-0918 | 460 1621 511 2639 | 63.8 dBA | Pass | Y | Sample location is at TP7 tire wash/scale house near Inglis fenceline. Trailer/Semi lineup for scalehouse turnaround. Inglis street traffic. |
| EPP | ENV-T-01 | Noise | CBRM Noise By-Law & NSE Criteria | once per month | 16-May-12 | <65 dBA | TP7-05-16-2012-0940-1140 | 460 0948 511 2767 | 65.6 dBA | Fail | Y | Sample location is West Access Road - Mid North Channel. Clay laydown/rolling in vicinity, construction of West Access Road at Wash Brook. |
| EPP | ENV-T-01 | Noise | CBRM Noise By-Law & NSE Criteria | once per month | 16-May-12 | <65 dBA | TP7-05-16-2012-1150-1400 | 460 1142 511 2499 | 59.2 dBA | Pass | Y | Sample location is South Pond approximately 100m South of Ferry Street/West Access Road. Clay laydown in North Channel. TP6C active (concrete cutting) |

Activities onsite at the time of the sampling events include Clay laydown and rolling, deconstruction.



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Stantec

August 10, 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 May 2012 Quality Control (QC) Report**

At the request of the Sydney Tar Ponds Agency (STPA), Stantec Consulting Limited (Stantec), acting as the project Independent Quality Assurance Consultant (IQAC), has completed a Quality Assurance Review of the Contractor's (Tervita and their quality control consultant (exp. Global Inc.), Monthly Quality Control (QC) Report for the month of May 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 1 | <u>Quality Control (QC) Environmental Inspection Summary Table</u> The review of the QC Environmental Inspection Summary Table can be completed as the table submitted in the report is for the April reporting period and not the May reporting period. |
| Level 2 | <u>Environmental Inspection Logs</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. |
| Level 3 | <u>Environmental Inspection Logs</u> The April 30 (1130), May 16 (1130) and May 25 (1130) EILs should state that the IQAC, Stantec, was on-site for Surface Water (Turbidity) and/or Noise Monitoring. |

August 10, 2012

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

Page 2 of 2

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

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

Sincerely,

STANTEC CONSULTING LTD

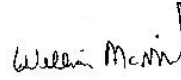


Jamie Tunncliff, B.Sc., B.Eng (EIT)
Assistant Environmental Manager

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Project Manager

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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 May 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 May 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 | May 2012 source sampling (performed with IQAC), testing and reporting of bedding sand is not mentioned or included by QC in this monthly 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. |

This report covers the quality control aspects for both the geotechnical and materials portions of the project.

August 13, 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 May 2012 Quality Control (QC) Report**

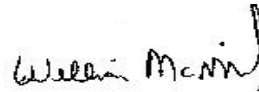
We trust this information meets your present needs. If you have any questions, or if we can be of further assistance, please do not hesitate to contact us at your convenience.

Sincerely,

STANTEC CONSULTING LTD



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



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



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

Weekly
 Monthly

From: 29-Apr-12 To: 26-May-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 04 29 -2012 05 05 | | | | | | | | | | | | | | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Atterburg Limits | ASTM D698 | Every 10 000 m ³ | | 29-Oct-11 | GB-SA#6 | Not Specified | See note | See note | % | See note | Y | | | | | | Testing not required under contract. | |
| 31 22 16 | Cohesive Soil Backfill | Particle Size Analysis | ASTM D422 | Every 10 000 m ³ | | 29-Oct-11 | GB-SA#6 | 100% passing 150 mm ≥ 95% passing 100 mm ≥ 80% passing 4.75 mm ≥ 30% passing 0.075 mm | See note | See note | % | See note | Y | | | | | | Testing not required under contract. | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 11-Dec-11 | Perm-WLP-6 | ≤ 1 × 10 ⁻⁹ cm/sec | 9-May-12 | 4.6E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-1 | ≤ 1 × 10 ⁻⁹ cm/sec | 2-May-12 | 8.0E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-2 | ≤ 1 × 10 ⁻⁹ cm/sec | 4-May-12 | 2.8E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-3 | ≤ 1 × 10 ⁻⁹ cm/sec | 2-May-12 | 7.0E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-4 | ≤ 1 × 10 ⁻⁹ cm/sec | 4-May-12 | 2.7E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-5 | ≤ 1 × 10 ⁻⁹ cm/sec | 4-May-12 | 3.5E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-6 | ≤ 1 × 10 ⁻⁹ cm/sec | 8-May-12 | 3.4E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-7 | ≤ 1 × 10 ⁻⁹ cm/sec | 8-May-12 | 2.8E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-8 | ≤ 1 × 10 ⁻⁹ cm/sec | 8-May-12 | 2.1E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-9 | ≤ 1 × 10 ⁻⁹ cm/sec | 4-May-12 | 1.0E-07 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-10 | ≤ 1 × 10 ⁻⁹ cm/sec | 7-May-12 | 1.0E-07 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-11 | ≤ 1 × 10 ⁻⁹ cm/sec | 4-May-12 | 2.0E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-12 | ≤ 1 × 10 ⁻⁹ cm/sec | 8-May-12 | 3.4E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-13 | ≤ 1 × 10 ⁻⁹ cm/sec | 4-May-12 | 6.8E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-14 | ≤ 1 × 10 ⁻⁹ cm/sec | 8-May-12 | 5.5E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-15 | ≤ 1 × 10 ⁻⁹ cm/sec | 4-May-12 | 7.3E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-16 | ≤ 1 × 10 ⁻⁹ cm/sec | 7-May-12 | 6.0E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-17 | ≤ 1 × 10 ⁻⁹ cm/sec | 7-May-12 | 7.3E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-18 | ≤ 1 × 10 ⁻⁹ cm/sec | 4-May-12 | 8.5E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-19 | ≤ 1 × 10 ⁻⁹ cm/sec | 7-May-12 | 6.7E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-20 | ≤ 1 × 10 ⁻⁹ cm/sec | 4-May-12 | 5.4E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-21 | ≤ 1 × 10 ⁻⁹ cm/sec | 8-May-12 | 3.5E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-22 | ≤ 1 × 10 ⁻⁹ cm/sec | 8-May-12 | 2.7E-08 | cm/s | pass | Y | | | | | | | |



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

Weekly
 Monthly

From: 29-Apr-12 To: 26-May-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 | | 23-Apr-12 | Perm-WA-23 | ≤ 1 × 10 ⁻⁸ cm/sec | 4-May-12 | 4.1E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-24 | ≤ 1 × 10 ⁻⁸ cm/sec | 7-May-12 | 4.7E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-25 | ≤ 1 × 10 ⁻⁸ cm/sec | 4-May-12 | 8.9E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-26 | ≤ 1 × 10 ⁻⁸ cm/sec | 2-May-12 | 3.9E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-27 | ≤ 1 × 10 ⁻⁸ cm/sec | 2-May-12 | 2.0E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-28 | ≤ 1 × 10 ⁻⁸ cm/sec | 2-May-12 | 2.0E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-29 | ≤ 1 × 10 ⁻⁸ cm/sec | 8-May-12 | 2.1E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-30 | ≤ 1 × 10 ⁻⁸ cm/sec | 7-May-12 | 7.2E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-31 | ≤ 1 × 10 ⁻⁸ cm/sec | 2-May-12 | 4.9E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-32 | ≤ 1 × 10 ⁻⁸ cm/sec | 2-May-12 | 2.7E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-33 | ≤ 1 × 10 ⁻⁸ cm/sec | 4-May-12 | 7.7E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-Apr-12 | Perm-WA-34 | ≤ 1 × 10 ⁻⁸ cm/sec | 4-May-12 | 6.5E-08 | cm/s | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Compaction (and Moisture) | ASTM D6938 | Every 1000 m ² for each lift | | 4-May-12 | PF-Com-04 May 12 (623-625) | 95% (or 92% if moisture ≥ opt. +6%) | 9-May-12 | 96.9-99.6 (9.7-10.9) | % | pass | Y | | | | | | | |
| 31 23 10 | Excavating, Trenching and Backfilling | Sieve Analysis | ASTM C136 | Each source or when material properties change | Each source or when material properties change | 4-May-12 | | | | | | | | Sieve Analysis Bedding Sand Beechmont Rd. Quarry (04-May-12) | 8-May-12 | Various Please see test report | Fail | Y | | Did not meet the gradation requirements of section 31 23 10 of the project specifications. |
| Week 2 2012 05 06 -2012 05 12 | | | | | | | | | | | | | | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Compaction (and Moisture) | ASTM D6938 | Every 1000 m ² for each lift | | 8-May-12 | PF-Com-08 May 12 (626-634) | 95% (or 92% if moisture ≥ opt. +6%) | 9-May-12 | 95.5-98.4 (9.6-11.9) | % | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 8-May-12 | Perm-PF-69 | ≤ 1 × 10 ⁻⁸ cm/sec | pending | pending | cm/s | pending | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Compaction (and Moisture) | ASTM D6938 | Every 1000 m ² for each lift | | 9-May-12 | PF-Com-09 May 12 (635-641) | 95% (or 92% if moisture ≥ opt. +6%) | 10-May-12 | 95.2-97.4 (10.0-11.4) | % | pass | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 9-May-12 | Perm-PF-70 | ≤ 1 × 10 ⁻⁸ cm/sec | pending | pending | cm/s | pending | Y | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Standard Proctor | ASTM D698 | Every 10 000 m ³ | | 9-May-12 | PF-SA#14 | Not Specified | 17-May-12 | 2061 (10.7) | 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 | | 10-May-12 | PF-Com-10 May 12 (642-648) | 95% (or 92% if moisture ≥ opt. +6%) | 11-May-12 | 95.3-97.0 (9.7-10.8) | % | 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. | 11-May-12 | PF-Com-11-May 12 (649-657) | 95% (or 92% if moisture ≥ opt. +6%) | 16-May-12 | 95.2-97.2 (9.5-11.6) | % | pass | Y | Cohesive Backfill Protective Fill Tests 1-2 (11-May-12) | 11-May-12 | % Compaction: 95.2-100.0 % M.C.: 10.9-11.6 | Pass | Y | | All compactions met the specified 95% minimum compaction criteria. |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 11-May-12 | Perm-PF-71 | ≤ 1 × 10 ⁻⁸ cm/sec | pending | pending | cm/s | pending | Y | | | | | | | |
| Week 3 2012 05 13 -2012 05 19 | | | | | | | | | | | | | | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Compaction (and Moisture) | ASTM D6938 | Every 1000 m ² for each lift | | 14-May-12 | P3BW-Com-14-May 12 (1-3) | 95% (or 92% if moisture ≥ opt. +6%) | 16-May-12 | 96.3-97.1 (9.8-11.6) | % | pass | Y | | | | | | | |



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

Weekly
 Monthly

From: 29-Apr-12 To: 26-May-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 | Compaction (and Moisture) | ASTM D6938 | Every 1000 m ² for each lift | | 14-May-12 | PF-Com-14-May 12 (658-661) | 95% (or 92% if moisture ≥ opt. +6%) | 16-May-12 | 96.6-98.2 (9.5-10.8) | % | pass | Y | | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 14-May-12 | Perm-PF-72 | ≤ 1 x 10 ⁻⁵ cm/sec | 25-May-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 | | 15-May-12 | P3BW-Com-15-May 12 (4-6) | 95% (or 92% if moisture ≥ opt. +6%) | 16-May-12 | 97.3-98.1 (9.8-11.4) | % | pass | Y | | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Compaction (and Moisture) | ASTM D6938 | Every 1000 m ² for each lift | | 15-May-12 | PF-Com-15-May 12 (622-670) | 95% (or 92% if moisture ≥ opt. +6%) | 16-May-12 | 96.6-99.9 (9.5-12.0) | % | pass | Y | | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 15-May-12 | Perm-PF-73 | ≤ 1 x 10 ⁻⁵ cm/sec | 25-May-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 | | 16-May-12 | PF-Com-16-May 12 (671-683) | 95% (or 92% if moisture ≥ opt. +6%) | pending | pending | % | pending | Y | | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 16-May-12 | Perm-PF-74 | ≤ 1 x 10 ⁻⁵ cm/sec | 25-May-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 | | 18-May-12 | PF-Com-18 May 12 (684-696) | 95% (or 92% if moisture ≥ opt. +6%) | 22-May-12 | 95.8-100.2 (9.5-11.4) | % | pass | Y | | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 18-May-12 | Perm-PF-75 | ≤ 1 x 10 ⁻⁵ cm/sec | pending | pending | cm/s | pending | Y | | | | | | | | |
| Week 4 2012 05 20 -2012 05 26 | | | | | | | | | | | | | | | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Compaction (and Moisture) | ASTM D6938 | Every 1000 m ² for each lift | | 22-May-12 | PF-Com-22 May 12 (697-701) | 95% (or 92% if moisture ≥ opt. +6%) | 23-May-12 | 97.2-99.3 (9.3-9.8) | % | pass | Y | | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 22-May-12 | Perm-PF-76 | ≤ 1 x 10 ⁻⁵ cm/sec | pending | pending | cm/s | pending | Y | | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Compaction (and Moisture) | ASTM D6938 | Every 1000 m ² for each lift | | 23-May-12 | P3BE-Com-23 May 12 (1-4) | 95% (or 92% if moisture ≥ opt. +6%) | 24-May-12 | 97.1-98.1 (9.5-10.0) | % | pass | Y | | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 23-May-12 | Perm-P3BE-1 | ≤ 1 x 10 ⁻⁵ cm/sec | pending | pending | cm/s | pending | Y | | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Compaction (and Moisture) | ASTM D6938 | Every 1000 m ² for each lift | | 24-May-12 | P3BE-Com-24 May 12 (5-8) | 95% (or 92% if moisture ≥ opt. +6%) | 25-May-12 | 97.0-100.1 (9.3-9.9) | % | pass | Y | | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 24-May-12 | Perm-P3BE-2A | ≤ 1 x 10 ⁻⁵ cm/sec | pending | pending | cm/s | pending | Y | | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 24-May-12 | Perm-P3BE-2B | ≤ 1 x 10 ⁻⁵ cm/sec | pending | pending | cm/s | pending | Y | | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Permeability | ASTM D5084 | Every 2000 m ³ | | 24-May-12 | Perm-P3BE-2C | ≤ 1 x 10 ⁻⁵ cm/sec | pending | pending | cm/s | pending | Y | | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Atterburg Limits | ASTM D698 | Every 10 000 m ³ | | 24-May-12 | P3BE-SA#1 | Not Specified | pending | pending | % | For Information Only | Y | | | | | | | | |
| 31 22 16 | Cohesive Soil Backfill | Standard Proctor | ASTM D698 | Every 10 000 m ³ | | 24-May-12 | P3BE-SA#1 | Not Specified | pending | pending | 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 | P3BE-SA#1 | 100% passing 150 mm ≥ 95% passing 100 mm ≥ 80% passing 4.75 mm ≥ 30% passing 0.075 mm | 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. | 25-May-12 | P3BE-Com-25 May 12 (10-13) | 95% (or 92% if moisture ≥ opt. +6%) | pending | pending | % | pending | Y | 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 criteria. | |

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

- Weekly
- Monthly

From: 29-Apr-12 26-May-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-01 | Noise Monitoring | Noise Monitoring with dosimeter or equivalent | CBRM Bylaw and NSE Criteria | Once weekly | Monthly | 30-Apr-12 | Noise-TP7-Ingils St fence line - 30 Apr 2012 | CBRM Bylaw and NSE Criteria 65 Leq (dBA) | 30-Apr-12 | 54.2 Leq (dBA) | Pass | Y | TP7-04-30-2012-0820-1021 | 30-Apr | 57.2 dBA | Pass | Yes | | Sample location is along Ingils Street fence line near Schalehouse. Contractors transiting area and Ingils street entrance. | |
| ENV-T-01 | Noise Monitoring | Noise Monitoring with dosimeter or equivalent | CBRM Bylaw and NSE Criteria | Once weekly | Monthly | 30-Apr-12 | Noise-TP7-SE of Ferry St- 30 Apr 2012 | CBRM Bylaw and NSE Criteria 65 Leq (dBA) | 30-Apr-12 | 63.4 Leq (dBA) | Pass | Y | TP7-04-30-2012-1025-1226 | 30-Apr | 64.5 dBA | Pass | Yes | | Sample location is at Ferry Street Clean (Constructed) Access Road. Contractors transiting area. TP6B (Nordleys) machinery active in area. TP7 scarifying nearby. | |
| ENV-T-01 | Noise Monitoring | Noise Monitoring with dosimeter or equivalent | CBRM Bylaw and NSE Criteria | Once weekly | Monthly | 30-Apr-12 | Noise-TP7-W of main channel - 30 Apr 2012 | CBRM Bylaw and NSE Criteria 65 Leq (dBA) | 30-Apr-12 | 60.9 Leq (dBA) | Pass | Y | TP7-04-30-2012-1305-1507 | 30-Apr | 64.1 dBA | Pass | Yes | | Sample location is 75m South of Ferry Street along West Access Road. Tervita scarifying/excavating section of South Pond. TP6C active with tracking/excavating. TP6A (McNally) excavator tracking West Access Road. | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 30-Apr-12 | Turbidity-TP7-Upstream COB - 30 Apr 2012 - 0730 Turbidity-TP7-Upstream WB - 30 Apr 2012 - 0730 Turbidity-TP7-Midstream - 30 Apr 2012 - 1230 Turbidity-TP7-Downstream - 30 Apr 2012 - 0730 | 8 NTU above background | 30-Apr-12 | 1.1 NTU 2.0 NTU 2.7 NTU 1.9 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | Weekly | 30-Apr-12 | Turbidity-TP7-Upstream COB - 30 Apr 2012 - 1230 Turbidity-TP7-Upstream WB - 30 Apr 2012 - 1230 Turbidity-TP7-Midstream - 30 Apr 2012 - 1230 Turbidity-TP7-Downstream - 30 Apr 2012 - 1230 | 8 NTU above background | 30-Apr-12 | 1.3 NTU 1.1 NTU 2.1 NTU 1.8 NTU | Pass | Y | TP7-04-30-2012-Upstream COB TP7-04-30-2012-Upstream WB TP7-04-30-2012-Midstream TP7-04-30-2012-Downstream | 30-Apr | 2.71 NTU 1.64 NTU 2.39 NTU 2.45 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 | | 30-Apr-12 | Turbidity-TP7-Upstream COB - 30 Apr 2012 - 1630 Turbidity-TP7-Upstream WB - 30 Apr 2012 - 1630 Turbidity-TP7-Midstream - 30 Apr 2012 - 1630 Turbidity-TP7-Downstream - 30 Apr 2012 - 1630 | 8 NTU above background | 30-Apr-12 | 2.0 NTU 7.2 NTU 2.5 NTU 1.9 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 1-May-12 | Turbidity-TP7-Upstream COB - 01 May 2012 - 0730 Turbidity-TP7-Upstream WB - 01 May 2012 - 0730 Turbidity-TP7-Midstream - 01 May 2012 - 0730 Turbidity-TP7-Downstream - 01 May 2012 - 0730 | 8 NTU above background | 1-May-12 | 1.3 NTU 1.2 NTU 5.8 NTU 2.1 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 1-May-12 | Turbidity-TP7-Upstream COB - 01 May 2012 - 1230 Turbidity-TP7-Upstream WB - 01 May 2012 - 1230 Turbidity-TP7-Midstream - 01 May 2012 - 1230 Turbidity-TP7-Downstream - 01 May 2012 - 1230 | 8 NTU above background | 1-May-12 | 2.4 NTU 4.2 NTU 4.0 NTU 4.2 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 1-May-12 | Turbidity-TP7-Upstream COB - 01 May 2012 - 1630 Turbidity-TP7-Upstream WB - 01 May 2012 - 1630 Turbidity-TP7-Midstream - 01 May 2012 - 1630 Turbidity-TP7-Downstream - 01 May 2012 - 1630 | 8 NTU above background | 1-May-12 | 8.0 NTU 22.1 NTU 3.2 NTU 4.6 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 2-May-12 | Turbidity-TP7-Upstream COB - 02 May 2012 - 0730 Turbidity-TP7-Upstream WB - 02 May 2012 - 0730 Turbidity-TP7-Midstream - 02 May 2012 - 0730 Turbidity-TP7-Downstream - 02 May 2012 - 0730 | 8 NTU above background | 2-May-12 | 1.6 NTU 1.4 NTU 5.8 NTU 6.5 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 2-May-12 | Turbidity-TP7-Upstream COB - 02 May 2012 - 1130 Turbidity-TP7-Upstream WB - 02 May 2012 - 1130 Turbidity-TP7-Midstream - 02 May 2012 - 1130 Turbidity-TP7-Downstream - 02 May 2012 - 1130 | 8 NTU above background | 2-May-12 | 1.7 NTU 29.8 NTU 3.7 NTU 4.0 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 2-May-12 | Turbidity-TP7-Upstream COB - 02 May 2012 - 1530 Turbidity-TP7-Upstream WB - 02 May 2012 - 1530 Turbidity-TP7-Midstream - 02 May 2012 - 1530 Turbidity-TP7-Downstream - 02 May 2012 - 1530 | 8 NTU above background | 2-May-12 | 2.7 NTU 3.8 NTU 3.0 NTU 3.1 NTU 2.1 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 3-May-12 | Turbidity-TP7-Upstream COB - 03 May 2012 - 0730 Turbidity-TP7-Upstream WB - 03 May 2012 - 0730 Turbidity-TP7-Midstream - 03 May 2012 - 0730 Turbidity-TP7-Downstream - 03 May 2012 - 0730 | 8 NTU above background | 3-May-12 | 1.2 NTU 7.7 NTU 6.3 NTU 8.3 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 3-May-12 | Turbidity-TP7-Upstream COB - 03 May 2012 - 1130 Turbidity-TP7-Upstream WB - 03 May 2012 - 1130 Turbidity-TP7-Midstream - 03 May 2012 - 1130 Turbidity-TP7-Downstream - 03 May 2012 - 1130 | 8 NTU above background | 3-May-12 | 1.4 NTU 4.9 NTU 4.3 NTU 5.2 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 3-May-12 | Turbidity-TP7-Upstream COB - 03 May 2012 - 1530 Turbidity-TP7-Upstream WB - 03 May 2012 - 1530 Turbidity-TP7-Midstream - 03 May 2012 - 1530 Turbidity-TP7-Downstream - 03 May 2012 - 1530 | 8 NTU above background | 3-May-12 | 1.2 NTU 2.2 NTU 1.8 NTU 3.4 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 4-May-12 | Turbidity-TP7-Upstream COB - 04 May 2012 - 0730 Turbidity-TP7-Upstream WB - 04 May 2012 - 0730 Turbidity-TP7-Midstream - 04 May 2012 - 0730 Turbidity-TP7-Downstream - 04 May 2012 - 0730 | 8 NTU above background | 4-May-12 | 1.5 NTU 1.3 NTU 1.0 NTU 2.1 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 4-May-12 | Turbidity-TP7-Upstream COB - 04 May 2012 - 1130 Turbidity-TP7-Upstream WB - 04 May 2012 - 1130 Turbidity-TP7-Midstream - 04 May 2012 - 1130 Turbidity-TP7-Downstream - 04 May 2012 - 1130 | 8 NTU above background | 4-May-12 | 1.2 NTU 0.8 NTU 0.9 NTU 1.1 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 4-May-12 | Turbidity-TP7-Upstream COB - 04 May 2012 - 1530 Turbidity-TP7-Upstream WB - 04 May 2012 - 1530 Turbidity-TP7-Midstream - 04 May 2012 - 1530 Turbidity-TP7-Downstream - 04 May 2012 - 1530 | 8 NTU above background | 4-May-12 | 1.3 NTU 0.7 NTU 1.1 NTU 1.4 NTU | Pass | Y | | | | | | | | |
| Week 2 | | | | | | | | | | | | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 7-May-12 | Turbidity-TP7-Upstream COB - 07 May 2012 - 0800 Turbidity-TP7-Upstream WB - 07 May 2012 - 0800 Turbidity-TP7-Midstream - 07 May 2012 - 0800 Turbidity-TP7-Downstream - 07 May 2012 - 0800 | 8 NTU above background | 7-May-12 | 1.2 NTU 1.1 NTU 4.2 NTU 4.7 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 7-May-12 | Turbidity-TP7-Upstream COB - 07 May 2012 - 1200 Turbidity-TP7-Upstream WB - 07 May 2012 - 1200 Turbidity-TP7-Midstream - 07 May 2012 - 1200 Turbidity-TP7-Downstream - 07 May 2012 - 1200 | 8 NTU above background | 7-May-12 | 1.2 NTU 2.2 NTU 1.8 NTU 3.4 NTU | Pass | Y | | | | | | | | |

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

- Weekly
- Monthly

From: 29-Apr-12 26-May-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 | | 8-May-12 | Turbidity-TP7-Upstream COB - 08 May 2012 - 0730 Turbidity-TP7-Upstream WB - 08 May 2012 - 0730 Turbidity-TP7-Midstream - 08 May 2012 - 0730 Turbidity-TP7-Downstream - 08 May 2012 - 0730 | 8 NTU above background | 8-May-12 | 1.6 NTU 1.5 NTU 1.2 NTU 1.1 NTU | Pass | Y | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 8-May-12 | Turbidity-TP7-Upstream COB - 08 May 2012 - 1130 Turbidity-TP7-Upstream WB - 08 May 2012 - 1130 Turbidity-TP7-Midstream - 08 May 2012 - 1130 Turbidity-TP7-Downstream - 08 May 2012 - 1130 | 8 NTU above background | 8-May-12 | 1.7 NTU 1.1 NTU 1.2 NTU 1.5 NTU | Pass | Y | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 8-May-12 | Turbidity-TP7-Upstream COB - 08 May 2012 - 1530 Turbidity-TP7-Upstream WB - 08 May 2012 - 1530 Turbidity-TP7-Midstream - 08 May 2012 - 1530 Turbidity-TP7-Downstream - 08 May 2012 - 1530 | 8 NTU above background | 8-May-12 | 1.8 NTU 1.4 NTU 1.1 NTU 1.3 NTU | Pass | Y | | | | | | | | | |
| ENV-T-01 | Noise Monitoring | Noise Monitoring with dosimeter or equivalent | CBRM Bylaw and NSE Criteria | Once weekly | | 8-May-12 | Noise-TP7-P1 Scale entrance - 08 May 2012 | CBRM Bylaw and NSE Criteria 65 Leq (dBA) | 8-May-12 | 55.4 Leq (dBA) | Pass | Y | | | | | | | | | |
| ENV-T-01 | Noise Monitoring | Noise Monitoring with dosimeter or equivalent | CBRM Bylaw and NSE Criteria | Once weekly | | 8-May-12 | Noise-TP7-P2 access ramp - 08 May 2012 | CBRM Bylaw and NSE Criteria 65 Leq (dBA) | 8-May-12 | 56.5 Leq (dBA) | Pass | Y | | | | | | | | | |
| ENV-T-01 | Noise Monitoring | Noise Monitoring with dosimeter or equivalent | CBRM Bylaw and NSE Criteria | Once weekly | | 8-May-12 | Noise-TP7-P2 W fence - 08 May 2012 | CBRM Bylaw and NSE Criteria 65 Leq (dBA) | 8-May-12 | 64.5 Leq (dBA) | Pass | Y | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 9-May-12 | Turbidity-TP7-Upstream COB - 09 May 2012 - 0730 Turbidity-TP7-Upstream WB - 09 May 2012 - 0730 Turbidity-TP7-Midstream - 09 May 2012 - 0730 Turbidity-TP7-Downstream - 09 May 2012 - 0730 | 8 NTU above background | 9-May-12 | 2.4 NTU 1.2 NTU 2.8 NTU 2.9 NTU | Pass | Y | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 9-May-12 | Turbidity-TP7-Upstream COB - 09 May 2012 - 1130 Turbidity-TP7-Upstream WB - 09 May 2012 - 1130 Turbidity-TP7-Midstream - 09 May 2012 - 1130 Turbidity-TP7-Downstream - 09 May 2012 - 1130 | 8 NTU above background | 9-May-12 | 2.1 NTU 1.8 NTU 1.9 NTU 3.1 NTU | Pass | Y | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 9-May-12 | Turbidity-TP7-Upstream COB - 09 May 2012 - 1530 Turbidity-TP7-Upstream WB - 09 May 2012 - 1530 Turbidity-TP7-Midstream - 09 May 2012 - 1530 Turbidity-TP7-Downstream - 09 May 2012 - 1530 | 8 NTU above background | 9-May-12 | 2.0 NTU 1.4 NTU 1.6 NTU 2.1 NTU | Pass | Y | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 10-May-12 | Turbidity-TP7-Upstream COB - 10 May 2012 - 0730 Turbidity-TP7-Upstream WB - 10 May 2012 - 0730 Turbidity-TP7-Midstream - 10 May 2012 - 0730 Turbidity-TP7-Downstream - 10 May 2012 - 0730 | 8 NTU above background | 10-May-12 | 2.3 NTU 2.3 NTU 3.6 NTU 3.2 NTU | Pass | Y | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 10-May-12 | Turbidity-TP7-Upstream COB - 10 May 2012 - 1130 Turbidity-TP7-COB Midstream - 10 May 2012 - 1130 Turbidity-TP7-Upstream WB - 10 May 2012 - 1130 Turbidity-TP7-Midstream - 10 May 2012 - 1130 Turbidity-TP7-Downstream - 10 May 2012 - 1130 Turbidity-TP7-Upstream COB - 10 May 2012 - 1330 Turbidity-TP7-COB Midstream - 10 May 2012 - 1330 Turbidity-TP7-Upstream COB - 10 May 2012 - 1430 Turbidity-TP7-COB Midstream - 10 May 2012 - 1430 | 8 NTU above background | 10-May-12 | 3.2 NTU 12.2 NTU 2.4 NTU 3.6 NTU 3.4 NTU 2.2 NTU 10.3 NTU 2.6 NTU 13.0 NTU | Pass | Y | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 10-May-12 | Turbidity-TP7-Upstream COB - 10 May 2012 - 1530 Turbidity-TP7-COB Midstream - 10 May 2012 - 1530 Turbidity-TP7-Upstream WB - 10 May 2012 - 1530 Turbidity-TP7-Midstream - 10 May 2012 - 1530 Turbidity-TP7-Downstream - 10 May 2012 - 1530 | 8 NTU above background | 10-May-12 | 2.2 NTU 9.2 NTU 2.1 NTU 4.0 NTU 3.2 NTU | Pass | Y | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 11-May-12 | Turbidity-TP7-Background COB - 11 May 2012 - 0730 Turbidity-TP7-Background WB - 11 May 2012 - 0730 Turbidity-TP7-Upstream - 11 May 2012 - 0730 Turbidity-TP7-Midstream - 11 May 2012 - 0730 Turbidity-TP7-Downstream - 11 May 2012 - 0730 | 8 NTU above background | 11-May-12 | 3.3 NTU 4.3 NTU 17.2 NTU 19.0 NTU 6.7 NTU | Pass | Y | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | Weekly | 11-May-12 | Turbidity-TP7-Upstream - 11 May 2012 - 1130 Turbidity-TP7-Midstream - 11 May 2012 - 1130 Turbidity-TP7-Downstream - 11 May 2012 - 1130 | 8 NTU above background | 11-May-12 | 4.8 NTU 11.6 NTU 7.3 NTU | Pass | Y | TP7-05-11-2012-Upstream TP7-05-11-2012-Midstream TP7-05-11-2012-Downstream | 11-May | 4.64 NTU 13.3 NTU 3.73 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 | | 11-May-12 | Turbidity-TP7-Upstream - 11 May 2012 - 1530 Turbidity-TP7-Midstream - 11 May 2012 - 1530 Turbidity-TP7-Downstream - 11 May 2012 - 1530 | 8 NTU above background | 11-May-12 | 4.8 NTU 7.3 NTU 6.2 NTU | Pass | Y | | | | | | | | | |
| Week 3 | | | | | | | | | | | | | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 14-May-12 | Turbidity-TP7-Upstream - 14 May 2012 - 0730 Turbidity-TP7-Midstream - 14 May 2012 - 0730 Turbidity-TP7-Downstream - 14 May 2012 - 0730 | 8 NTU above background | 14-May-12 | 1.5 NTU 1.8 NTU 0.3 NTU | Pass | Y | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 14-May-12 | Turbidity-TP7-Upstream - 14 May 2012 - 1130 Turbidity-TP7-Midstream - 14 May 2012 - 1130 Turbidity-TP7-Downstream - 14 May 2012 - 1130 | 8 NTU above background | 14-May-12 | 1.8 NTU 1.5 NTU 0.9 NTU | Pass | Y | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 14-May-12 | Turbidity-TP7-Upstream - 14 May 2012 - 1530 Turbidity-TP7-Midstream - 14 May 2012 - 1530 Turbidity-TP7-Downstream - 14 May 2012 - 1530 | 8 NTU above background | 14-May-12 | 1.5 NTU 1.5 NTU 0.8 NTU | Pass | Y | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 15-May-12 | Turbidity-TP7-Upstream - 15 May 2012 - 0730 Turbidity-TP7-Midstream - 15 May 2012 - 0730 Turbidity-TP7-Downstream - 15 May 2012 - 0730 | 8 NTU above background | 15-May-12 | 1.4 NTU 2.1 NTU 1.7 NTU | Pass | Y | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 15-May-12 | Turbidity-TP7-Upstream - 15 May 2012 - 1130 Turbidity-TP7-Midstream - 15 May 2012 - 1130 Turbidity-TP7-Downstream - 15 May 2012 - 1130 | 8 NTU above background | 15-May-12 | 2.1 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-May-12 | Turbidity-TP7-Upstream - 15 May 2012 - 1530 Turbidity-TP7-Midstream - 15 May 2012 - 1530 Turbidity-TP7-Downstream - 15 May 2012 - 1530 | 8 NTU above background | 15-May-12 | 2.1 NTU 2.2 NTU 2.5 NTU | Pass | Y | | | | | | | | | |
| ENV-T-01 | Noise Monitoring | Noise Monitoring with dosimeter or equivalent | CBRM Bylaw and NSE Criteria | Once weekly | Monthly | 16-May-12 | Noise-TP7-P1 Scale entrance - 16 May 2012 | CBRM Bylaw and NSE Criteria 65 Leq (dBA) | 16-May-12 | 67.5 Leq (dBA) | Fail | Y | TP7-05-16-2012-0716-0918 | 16-May-12 | 63.8 dBA | Pass | Y | Noise exceedance attributed to backup of trucks in line at scale for start of shift. | Sample location is at TP7 tire wash/scale house near Inglis fence line. Trailer/Semi line up for scalehouse turnaround. Inglis street traffic. | | |
| ENV-T-01 | Noise Monitoring | Noise Monitoring with dosimeter or equivalent | CBRM Bylaw and NSE Criteria | Once weekly | Monthly | 16-May-12 | Noise-TP7-NW of main channel- 16 May 2012 | CBRM Bylaw and NSE Criteria 65 Leq (dBA) | 16-May-12 | 65.4 Leq (dBA) | Fail | Y | TP7-05-16-2012-0940-1140 | 16-May-12 | 65.6 dBA | Fail | Y | Noise exceedance attributed to noisy's tamdems driving 1m away on W access road. | Sample location is West Access Road - Mid North Channel. Clay laydown/rolling in vicinity, construction of West Access Road at Wash Brook. | | |

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

- Weekly
- Monthly

From: 29-Apr-12 26-May-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 | Monthly | 16-May-12 | Noise-TP7-P2 SW of main channel - 16 May 2012 | CBRM Bylaw and NSE Criteria 65 Leq (dBA) | 16-May-12 | 59.9 Leq (dBA) | Pass | Y | TP7-05-16-2012-1150-1400 | 16-May-12 | 59.2 dBA | Pass | Y | | Sample location is South Pond approximately 100m South of Ferry Street/West Access Road. Clay laydown in North Channel. TP6C active (concrete cutting) | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 16-May-12 | Turbidity-TP7-Upstream - 16 May 2012 - 0730 Turbidity-TP7-Midstream - 16 May 2012 - 0730 Turbidity-TP7-Downstream - 16 May 2012 - 0730 | 8 NTU above background | 16-May-12 | 2.5 NTU 3.3 NTU 2.4 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | Weekly | 16-May-12 | Turbidity-TP7-Upstream - 16 May 2012 - 1130 Turbidity-TP7-Midstream - 16 May 2012 - 1130 Turbidity-TP7-Downstream - 16 May 2012 - 1130 | 8 NTU above background | 16-May-12 | 2.3 NTU 3.6 NTU 3.0 NTU | Pass | Y | TP7-05-16-2012-Upstream TP7-05-16-2012-Midstream TP7-05-16-2012-Downstream | 16-May | 3.68 NTU 4.04 NTU 2.71 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 | | 16-May-12 | Turbidity-TP7-Upstream - 16 May 2012 - 1530 Turbidity-TP7-Midstream - 16 May 2012 - 1530 Turbidity-TP7-Downstream - 16 May 2012 - 1530 | 8 NTU above background | 16-May-12 | 2.7 NTU 3.0 NTU 2.9 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 17-May-12 | Turbidity-TP7-Upstream - 17 May 2012 - 0730 Turbidity-TP7-Midstream - 17 May 2012 - 0730 Turbidity-TP7-Downstream - 17 May 2012 - 0730 | 8 NTU above background | 17-May-12 | 3.2 NTU 2.5 NTU 2.4 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 17-May-12 | Turbidity-TP7-Upstream - 17 May 2012 - 1130 Turbidity-TP7-Midstream - 17 May 2012 - 1130 Turbidity-TP7-Downstream - 17 May 2012 - 1130 | 8 NTU above background | 17-May-12 | 3.1 NTU 1.9 NTU 2.3 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 17-May-12 | Turbidity-TP7-Upstream - 17 May 2012 - 1530 Turbidity-TP7-Midstream - 17 May 2012 - 1530 Turbidity-TP7-Downstream - 17 May 2012 - 1530 | 8 NTU above background | 17-May-12 | 3.6 NTU 2.4 NTU 2.2 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 18-May-12 | Turbidity-TP7-Upstream COB - 18 May 2012 - 0730 Turbidity-TP7-Upstream WB - 18 May 2012 - 0730 Turbidity-TP7-COB Downstream - 18 May 2012 - 0730 Turbidity-TP7-Midstream - 18 May 2012 - 0730 Turbidity-TP7-Downstream - 18 May 2012 - 0730 | 8 NTU above background | 18-May-12 | 4.4 NTU 3.8 NTU 27.2 NTU 8.5 NTU 4.2 NTU | Fail | Y | | | | | | | 1. Noticable turbidity at CO discharge, did additional sample(1st midstream) exceedance seems to be result of CO culvert, 18 May 2012, 0800, BOD. 2. Downstream reading for CBRM roads and COB outfall, which is discharging turbid water due to off-site tracking. KO 23 May 2012. | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 18-May-12 | Turbidity-TP7-Upstream COB - 18 May 2012 - 1130 Turbidity-TP7-Midstream COB - 18 May 2012 - 1130 Turbidity-TP7-Downstream COB - 18 May 2012 - 1130 Turbidity-TP7-Upstream WB - 18 May 2012 - 1130 Turbidity-TP7-COB Downstream - 18 May 2012 - 1130 Turbidity-TP7-Midstream - 18 May 2012 - 1130 Turbidity-TP7-Downstream - 18 May 2012 - 1130 | 8 NTU above background | 18-May-12 | 29.0 NTU 34.2 NTU 27.4 NTU 2.9 NTU 10.7 NTU 9.2 NTU 5.8 NTU | Fail | Y | | | | | | | | 1. Noticable turbidity at CO Culvert, did additional samples at CO. exceedance recorded, small snails were noticed pooled together at the culvert discharge. less water and more sweeping were used on inglis st., 18 May 2012, 1200, BOD. |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 18-May-12 | Turbidity-TP7-Upstream COB - 18 May 2012 - 1530 Turbidity-TP7-Downstream COB - 18 May 2012 - 1530 Turbidity-TP7-Upstream WB - 18 May 2012 - 1530 Turbidity-TP7-COB Downstream - 18 May 2012 - 1530 Turbidity-TP7-Midstream - 18 May 2012 - 1530 Turbidity-TP7-Downstream - 18 May 2012 - 1530 | 8 NTU above background | 18-May-12 | 3.4 NTU 7.1 NTU 2.5 NTU 7.5 NTU 14.2 NTU 7.1 NTU | Pass | Y | | | | | | | | |
| Week 4 | | | | | | | | | | | | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 22-May-12 | Turbidity-TP7-Washbrook - 22 May 2012 - 0730 Turbidity-TP7-1st Midstream - 22 May 2012 - 0730 Turbidity-TP7-Midstream - 22 May 2012 - 0730 Turbidity-TP7-Downstream - 22 May 2012 - 0730 | 8 NTU above background | 22-May-12 | 1.4 NTU 1.6 NTU 1.8 NTU 2.0 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 22-May-12 | Turbidity-TP7-Washbrook - 22 May 2012 - 1130 Turbidity-TP7-1st Midstream - 22 May 2012 - 1130 Turbidity-TP7-Midstream - 22 May 2012 - 1130 Turbidity-TP7-Downstream - 22 May 2012 - 1130 | 8 NTU above background | 22-May-12 | 2.5 NTU 2.1 NTU 3.1 NTU 2.5 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 22-May-12 | Turbidity-TP7-Washbrook - 22 May 2012 - 1530 Turbidity-TP7-1st Midstream - 22 May 2012 - 1530 Turbidity-TP7-Midstream - 22 May 2012 - 1530 Turbidity-TP7-Downstream - 22 May 2012 - 1530 | 8 NTU above background | 22-May-12 | 1.7 NTU 1.9 NTU 2.0 NTU 2.3 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 23-May-12 | Turbidity-TP7-Washbrook - 23 May 2012 - 0730 Turbidity-TP7-1st Midstream - 23 May 2012 - 0730 Turbidity-TP7-Midstream - 23 May 2012 - 0730 Turbidity-TP7-Downstream - 23 May 2012 - 0730 | 8 NTU above background | 23-May-12 | 2.7 NTU 2.9 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 | | 23-May-12 | Turbidity-TP7-Washbrook - 23 May 2012 - 1130 Turbidity-TP7-1st Midstream - 23 May 2012 - 1130 Turbidity-TP7-Midstream - 23 May 2012 - 1130 Turbidity-TP7-Downstream - 23 May 2012 - 1130 | 8 NTU above background | 23-May-12 | 2.9 NTU 3.1 NTU 1.8 NTU 2.6 NTU | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 23-May-12 | Turbidity-TP7-Washbrook - 23 May 2012 - 1530 Turbidity-TP7-1st Midstream - 23 May 2012 - 1530 Turbidity-TP7-Midstream - 23 May 2012 - 1530 Turbidity-TP7-Downstream - 23 May 2012 - 1530 | 8 NTU above background | 23-May-12 | 4.9 NTU 4.7 NTU 1.9 NTU 2.2 NTU | Pass | Y | | | | | | | | |
| ENV-T-01 | Noise Monitoring | Noise Monitoring with dosimeter or equivalent | CBRM Bylaw and NSE Criteria | Once weekly | | 24-May-12 | Noise-TP7-NW of Narrows - 24 May 2012 | CBRM Bylaw and NSE Criteria 65 Leq (dBA) | 24-May-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 | | 24-May-12 | Noise-TP7-P2 access ramp - 24 May 2012 | CBRM Bylaw and NSE Criteria 65 Leq (dBA) | 24-May-12 | 62.5 Leq (dBA) | Pass | Y | | | | | | | | |
| ENV-T-01 | Noise Monitoring | Noise Monitoring with dosimeter or equivalent | CBRM Bylaw and NSE Criteria | Once weekly | | 24-May-12 | Noise-TP7-Main scale entrance - 24 May 2012 | CBRM Bylaw and NSE Criteria 65 Leq (dBA) | 24-May-12 | 59.8 Leq (dBA) | Pass | Y | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 24-May-12 | Turbidity-TP7-Upstream WB - 24 May 2012 - 0730 Turbidity-TP7-Upstream COB - 24 May 2012 - 0730 Turbidity-TP7-Outfall COB - 24 May 2012 - 0730 Turbidity-TP7-COB pump discharge - 24 May 2012 - 0730 Turbidity-TP7- 1st Midstream - 24 May 2012 - 0730 Turbidity-TP7-Midstream - 24 May 2012 - 0730 Turbidity-TP7-Downstream - 24 May 2012 - 0730 | 8 NTU above background | 24-May-12 | 2.1 NTU 2.1 NTU 12.2 NTU 5.7 NTU 3.2 NTU 3.5 NTU 2.7 NTU | Pass | Y | | | | | | | | |

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

- Weekly
- Monthly

From: 29-Apr-12 26-May-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 | | 24-May-12 | Turbidity-TP7-Upstream WB - 24 May 2012 - 1130 Turbidity-TP7-Upstream COB - 24 May 2012 - 1130 Turbidity-TP7-Outfall COB - 24 May 2012 - 1130 Turbidity-TP7-COB pump discharge - 24 May 2012 - 1130 Turbidity-TP7- 1st Midstream- 24 May 2012 - 1130 Turbidity-TP7-Midstream - 24 May 2012 - 1130 Turbidity-TP7-Downstream - 24 May 2012 - 1130 | 8 NTU above background | 24-May-12 | 1.8 NTU 1.6 NTU 8.6 NTU 2.3 NTU 2.2 NTU 3.6 NTU 3.2 NTU | Pass | Y | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 24-May-12 | Turbidity-TP7-Upstream WB - 24 May 2012 - 1530 Turbidity-TP7-Upstream COB - 24 May 2012 - 1530 Turbidity-TP7-Outfall COB - 24 May 2012 - 1530 Turbidity-TP7-COB pump discharge - 24 May 2012 - 1530 Turbidity-TP7- 1st Midstream- 24 May 2012 - 1530 Turbidity-TP7-Midstream - 24 May 2012 - 1530 Turbidity-TP7-Downstream - 24 May 2012 - 1530 | 8 NTU above background | 24-May-12 | 1.7 NTU 1.9 NTU 7.6 NTU 2.8 NTU 1.8 NTU 3.7 NTU 3.1 NTU | Pass | Y | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 25-May-12 | Turbidity-TP7-Upstream COB - 25 May 2012 - 0900 Turbidity-TP7-Upstream WB - 25 May 2012 - 0900 Turbidity-TP7-Midstream - 25 May 2012 - 0900 Turbidity-TP7-Downstream - 25 May 2012 - 0900 | 8 NTU above background | 25-May-12 | 3.4 NTU 2.4 NTU 2.8 NTU 3.1 NTU | Pass | Y | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | Weekly | 25-May-12 | Turbidity-TP7-Upstream COB - 25 May 2012 - 1300 Turbidity-TP7-Midstream COB - 25 May 2012 - 1300 Turbidity-TP7-Upstream WB - 25 May 2012 - 1300 Turbidity-TP7-Midstream - 25 May 2012 - 1300 Turbidity-TP7-Downstream - 25 May 2012 - 1300 | 8 NTU above background | 25-May-12 | 2.8 NTU 7.4 NTU 2.5 NTU 2.7 NTU 3.0 NTU | Pass | Y | TP7-05-25-2012-Upstream COB TP7-05-25-2012-Midstream COB TP7-05-25-2012-Upstream WB TP7-05-25-2012-Midstream TP7-05-25-2012-Downstream | 25-May | 2.41 NTU 9.39 NTU 3.01 NTU 2.31 NTU 3.15 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 | | 25-May-12 | Turbidity-TP7-Upstream COB - 25 May 2012 - 1700 Turbidity-TP7-Midstream COB - 25 May 2012 - 1700 Turbidity-TP7-Upstream WB - 25 May 2012 - 1700 Turbidity-TP7-Midstream - 25 May 2012 - 1700 Turbidity-TP7-Downstream - 25 May 2012 - 1700 | 8 NTU above background | 25-May-12 | 2.6 NTU 5.2 NTU 2.2 NTU 2.6 NTU 3.1 NTU | Pass | Y | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 26-May-12 | Turbidity-TP7-Midstream COB - 26 May 2012 - 0730 Turbidity-TP7-Upstream WB - 26 May 2012 - 0730 Turbidity-TP7-Midstream - 26 May 2012 - 0730 Turbidity-TP7-Downstream - 26 May 2012 - 0730 | 8 NTU above background | 26-May-12 | 3.1 NTU 3.2 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 | | 26-May-12 | Turbidity-TP7-Upstream COB - 26 May 2012 - 1130 Turbidity-TP7-Midstream COB - 26 May 2012 - 1130 Turbidity-TP7-Outfall COB - 26 May 2012 - 1130 Turbidity-TP7-Upstream WB - 26 May 2012 - 1130 Turbidity-TP7-Midstream - 26 May 2012 - 1130 Turbidity-TP7-Downstream - 26 May 2012 - 1130 | 8 NTU above background | 26-May-12 | 2.6 NTU 18.1 NTU 46.2 NTU 2.4 NTU 2.3 NTU 2.5 NTU | Pass | Y | | | | | | | | | |
| ENV-T-02 | Turbidity Monitoring | Turbidity sampling with portable turbidity meter | EPP Req. | Every 4 hrs | | 26-May-12 | Turbidity-TP7-Upstream COB - 26 May 2012 - 1530 Turbidity-TP7-Midstream COB - 26 May 2012 - 1530 Turbidity-TP7-Outfall COB - 26 May 2012 - 1530 Turbidity-TP7-Upstream WB - 26 May 2012 - 1530 Turbidity-TP7-Midstream - 26 May 2012 - 1530 Turbidity-TP7-Downstream - 26 May 2012 - 1530 | 8 NTU above background | 26-May-12 | 2.3 NTU 19.1 NTU 24.4 NTU 2.6 NTU 2.5 NTU 2.6 NTU | Pass | Y | | | | | | | | | |

