



PLASCO ENERGY GROUP DEMONSTRATION PROJECT

FINAL ASSESSMENT REPORT

January 2008 – January 2011



Plasco Energy Group Final Assessment Report
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January 2008 – January 2011

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Purpose of the Plasco Conversion Process Demonstration Project

As Canada's, and the World's, populations continue to grow the demand for more energy will continue in line with the rapid and accelerating economic growth. With resources dwindling and space at a premium, the need for sustainable and reliable energy is pressing. Increasing consumption is leading to increasing amounts of waste around the world. The way the world is dealing with that waste is outdated and tremendously inefficient. Burning or burying waste causes detrimental effects to our environment, contributes to global warming, and generates little or no value from its treatment.

Plasco Energy Group, a private Canadian company based in Ottawa, Ontario, has developed a waste conversion process that produces valuable products including electricity, construction aggregate, and clean water. Plasco provides public services in power generation and waste services using private sector financing to build, own and operate facilities that use Plasco proprietary technology to create better results. Plasco offers the opportunity to make landfills a thing of the past the world over. It also offers the capacity to capture and convert to value one of the most abundant sources of biomass available in urban communities, the mixed waste that results from modern urban living.

The Plasco Conversion System is the result of over thirty years of research and development. Decades of testing and design have been invested to develop breakthrough performance both economically and environmentally. Plasco's patented process technology allows it to achieve the highest energy yield of any waste conversion technology presently being used at a commercial-scale.

The Plasco Conversion System results in over 98% diversion from landfill. There are no air emissions during the conversion of the waste to synthetic fuel gas. The synthetic fuel gas (syngas) is then used to run internal combustion engines to produce electricity, and recovered heat that can be used to operate in a combined cycle generation mode.

Facilities will be designed to reflect the community and will fit seamlessly into the surroundings. Douglas Cardinal, a renowned Canadian architect, has been working with Plasco to design buildings to house facilities that communities will be proud to call their own.



Artist's Rendering

Plasco facilities integrate two or more modules (each module being based on Plasco Trail Road) and will be designed and constructed keeping each community in mind while minimizing truck traffic, guaranteeing ultra low emissions, and generating green power. Plasco will employ local companies and people to help build, maintain, and operate the facility - encouraging sustainable economic and technological growth while protecting the environment.

There is value in waste and the Plasco Conversion System can recover its worth, delivering green energy to the neighbourhoods generating the garbage. This creates a sustainable loop in the community and changes the way we look at and deal with waste.

EXECUTIVE SUMMARY

Plasco operates a municipal waste conversion demonstration plant named Plasco Trail Road (PTR) at the City of Ottawa's Closed Nepean Landfill Site located in the Ottawa, Ontario. The facility has been granted Certificates of Approval for Air No. 6925-6REN9E, amended to No. 7043-8A7KNZ, a Provisional Certificate of Approval for Waste No. 3166-6TYMDZ and related amendments. These Certificates of Approval expired on January 21, 2011.

Key observations noted and conclusions resulting from the Monthly Engineer's Report visits are summarized herein.

During the Demonstration Project, the facility was operated on a scheduled/campaign basis, therefore the production of PlascoSyngas at the facility has not been continuous and has been interrupted by periods of cold testing, plant maintenance and upgrades. The processed waste quantities remained within the maximum approved limits. Throughout the Demonstration Project, Plasco Trail Road has processed 6,630 tonnes of MSW, operated for 3,096 hours and generated 287 MWh of electrical power. During the last semi-annual period of operation (August 1, 2010 – January 21, 2011), PTR has processed 1,433 tonnes of waste, operated for 644 hours and generated 174 MWh of electrical power.

The majority of the waste processed was standard curbside municipal solid waste along with small amounts of high carbon feed in the form of non-recyclable plastic.

Process emissions have been continuously monitored. CEMS data has been verified to be accurate and representative of site conditions. Additional CEMS validation and routine testing is planned for the proposed commercial development phase of the project.

As a result of the data collected during operating campaigns, key improvements were made to the various systems within the facility. These enhancements resulted in the successful production of a consistent engine quality MSW-derived syngas that was used to fuel reciprocating engines and generate electrical power. Source testing data collected in December 2010 indicate that emission concentrations of particulate matter, metals, and dioxins and furans are significantly below the Ontario standards and in some cases below the standard level of quantification - in effect below quantifiable detection level. While the environmental performance is not the single validating result of the Demonstration period, it is very significant in that it has set a standard for all other technologies in this space to follow. Plasco is pleased to be the leader.

This document satisfies the requirements of Condition 66 of Provisional Certificate of Approval – Waste No. 3166-6TYMDZ, as amended. The report summarizes information reflecting the developments that occurred in the August 1, 2010 – January 31, 2011 semi-annual operational period, as well as information included in previously issued annual and semi-annual reports.

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1 INTRODUCTION

1.1 Plasco Trail Road Facility Description

Plasco Energy Group's Ottawa Trail Road Facility is the only operating MSW conversion facility in the world that converts municipal solid waste into a rich and stable syngas that can run reciprocating gas engines to generate electricity. There is no other existing MSW conversion facility that produces engine quality gas from MSW.

Plasco entered into an agreement with the City of Ottawa in April 2006 for the construction of a commercial-scale evaluation and demonstration municipal solid waste conversion facility next to the City's Trail Road Landfill site.

The demonstration facility has a small footprint (three acres) and was built on existing landfill space. The facility is designed to convert 100 tonnes per day and is permitted to convert 85 tonnes of solid waste per day using Plasco's conversion technology. At that rate, a net amount of 4 MW of electricity — enough to power 3,600 homes — can be fed into the Ontario energy grid. There are no air emissions from the processing of waste into synthetic gas and emissions exhausted from engines during power generation are below the Ontario regulated limits.



FIGURE 1.1 Plasco Trail Road Demonstration Facility

Throughout its operation, the facility at Trail Road has processed over 6,630 tonnes of waste destined for the Trail Road landfill, operated for 3,096 hours, generated 287,333 kWh of electrical power, and treated 10.9 million litres of process water. It should be noted that a significant share of the engine-grade gas was flared. Throughout this semi-annual reporting period, the Trail Road facility has processed 1,433 tonnes of waste, operated for 644 hours and generated 173,590 kWh of electrical power and treated 3.3 million litres of process water. While operating at steady state, Plasco Trail Road has produced an average syngas LHV of 3.7 MJ/Nm³ at an average rate of 11,482 MJ/h during the semi-annual reporting period.

Trail Road History

Ground Breaking - September 2006

- Construction - June 2007
- Power Sales from Surrogate Waste - October 2007
- MSW First Received - January 2008
- Power from MSW - February 2008
- Ontario Government considers Plasco Trail Road to be a manufacturer of power - July 2009
- Successful completion of the SDTC program - October 2009
- 7.7 million litres of treated water shipped to ROPEC - July 2010
- 5,200 tonnes of MSW Processed - July 2010
- Plasco named one of Canada's Top 10 Cleantech companies – October 2010
- Successful completion of a 21-day Endurance Run – November 2010
- Completion of Source Testing – December 2010
- MSW Last Processed – December 2010
- 6,630 tonnes of MSW Processed - December 2010
- 10.9 million litres of treated water shipped to ROPEC – December 2010
- Notice of Commencement issued for Environmental Screening Process – December 23, 2010

1.2 Plasco Trail Road Process Description

The Plasco Trail Road waste conversion process begins with a visual inspection of the received waste and the extraction of any oversized material with no calorific value (i.e. appliances). The MSW is shredded and ferrous metals are removed. The MSW enters the primary chamber of the converter where the material is gasified into a crude syngas using recovered heat from the downstream process. The solid residue from the primary conversion chamber is sent to the Carbon Recovery Vessel (CRV). The CRV is equipped with a plasma torch which is used to recover the residual carbon from the solids. This further improves the efficiency

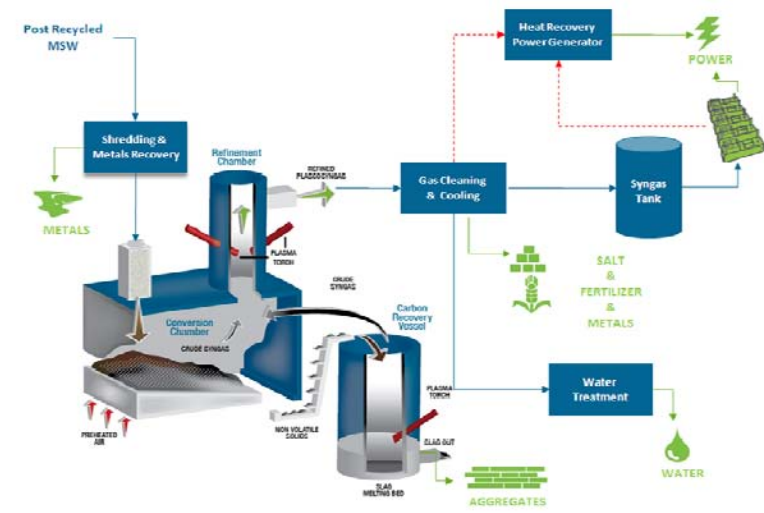


FIGURE 1.2 Plasco Waste Conversion Process Flow Diagram

of the conversion process and increases the heating value of the syngas. The primary chamber and CRV syngas streams are subsequently combined and refined into a cleaner, lighter syngas, with higher concentrations of CO in the refinement chamber where process air and plasma destroy complex molecules. The plasma stabilizes the remaining solids through a vitrification process which creates

molten slag. Rapid cooling turns the material into an inert, stable and nonhazardous by-product. Third party testing of Canadian waste has indicated the slag is not toxic and does not leach.

Once refined, the syngas is cleaned prior to fuelling the GE Jenbacher internal combustion engines. After passing through the heat recovery unit, the syngas flows to the Gas Quality Control Suite (GQCS) where it is cooled and cleaned of particulates, metals and acid components. The end result is a clean, synthetic fuel gas known as PlascoSyngas, rich in energy and used to operate internal combustion engines which generate electricity, created from the conversion of municipal solid waste, with no air emissions.

In commercial facilities, waste heat recovered from the engines will be combined with waste heat recovered from the gasification process for the generation of electricity via a Heat Recovery Steam Generation (HRSG) system. The facility could be operated in either cogeneration mode, using the steam for industrial processes or district heating, or in combined cycle to generate additional electricity by means of a steam turbine.

The entire process is continuously monitored by a proprietary control system that ensures sufficient PlascoSyngas stability to fuel internal combustion engines regardless of the variations in the energy content of the MSW feed.

2 STATUS OF COMPLIANCE

2.1 Regulatory Framework

Plasco is committed to operating within the environmental regulation framework under which it has received the licenses to operate.

2.1.1 Plasco Regulations

Specific regulations allow Plasco to operate the Trail Road Demonstration Project on a conditional basis:

1. Ontario Regulation O.Reg. 253/06
 - As amended by O.Reg. 10/10
 - Provides a clear permitting path for demonstration facilities to become permanent operating facilities after the demonstration has been completed.

2. Ontario Regulation O.Reg. 254/06
 - As amended by O.Reg. 11/10
 - Operational specific regulation, stipulates the conditions and limits under which the Plasco demonstration facility can operate within the context of O.Reg. 253/06 (as amended).

2.1.2 Plasco Trail Road Certificates of Approval

The Ontario Ministry of the Environment has granted Plasco Trail Road the following operating approvals and additional notices outlining the operating terms and conditions to ensure compliance with applicable regulations, permits and performance requirements.

1. Provisional Certificate of Approval - Waste Disposal Site No. 3166-6TYMDZ, issued December 1, 2006:
 - Notice No. 1 issued September 5, 2007;
 - Notice No. 2 issued January 28, 2008;
 - Notice No. 3 issued July 31, 2008;
 - Notice No. 4 issued December 9, 2008;
 - Notice No. 5 issued March 24, 2009;
 - Notice No. 6 issued January 25, 2010; and
 - Amended Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ, issued January 13, 2011.

2. Certificate of Approval - Air No. 6925-6REN9E, issued December 1, 2006.
 - Notice No. 2 issued December 5, 2007;
 - One day approval issued October 15th, 2008;
 - Notice No. 3 issued October 23, 2008;
 - Notice No. 4 issued October 24, 2008;
 - Program Approval issued December 1st, 2008;
 - Notice No. 5 issued December 2, 2008;
 - Notice No. 6 issued March 31, 2009;
 - Notice No. 7 issued April 23, 2009;
 - Program Approval issued April 28, 2009;
 - Program Approval issued October 27, 2009;
 - Notice No. 8 issued October, 27, 2009;
 - Notice No. 9 issued December 11, 2009; and,
 - Notice No. 10 issued January 25, 2010.

3. Certificate of Approval – Air No. 3557-74LHFQ, issued July 4, 2007
 - Standby diesel generator

4. Certificate of Approval – Air No. 4152-84KLK5 issued May 28, 2010
 - 3x3 Thermal Test Unit
 - Notice No. 1 issued January 7, 2011.

5. Amended Certificate of Approval – Air No. 7043-8A7KNZ issued October 27, 2010
 - Revokes and replaces Certificate of Approval- Air No. 6925-6REN9E
 - Program Approval issued November 2, 2010; and,
 - Notice No. 1 issued November 26, 2010.

2.1.3 City of Ottawa Certificates of Approval

As part of the negotiated change of use provisions and lease agreement, Plasco Trail Road must maintain compliance with all the Nepean Landfill site applicable conditions originally granted to the City of Ottawa by the MOE. Specific Certificates of Approval include:

- Amended Certificate of Approval – Municipal & Private Sewage Works No. 9022-6SSRGS issued August 28, 2006;
- Amended Certificate of Approval – Municipal & Private Sewage Works No. 8807-6VZMMT issued December 4, 2006; and,
- Amended Certificate of Approval – Municipal & Private Sewage Works No. 6974-7LHUSA issued November 26, 2008.

Other documents originally applicable to the City within its obligations with the MOE include:

- Amendment of A461301 - change of use of Reference Site to Plasco Gasification Process - Application Reference 1611-6UGR93;
- Provisional Certificate of Approval – Waste - A4613012 (original to operate a Waste Site);
- Amendment Notice - clauses added - A4613013;
- Amendment Notice - clauses added - A4613014;
- Amendment Notice - clauses added - A4613015;
- Certificate of Approval - Municipal Sewage 3-0989-92-0066; and,
- Certificate of Approval - Wastewater - Closure Plan Section 53 Groundwater Treatment System OWRA - 0660-6EJL7Z.

2.2 Status of Compliance with Ontario Regulation 254/06

The following section will demonstrate Plasco Trail Road Inc.'s compliance with Ontario Regulation 254/06, as amended. Table 2.1 outlines conditions as specified in Regulation 254/06 and the status of compliance for Plasco Trail Road Inc.

TABLE 2.1 - Status of Compliance for the Plasco Demonstration Project with O.Reg. 254/06, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
3	Traffic and Noise Study	Plasco Trail Road Inc. shall, before municipal waste is first received as part of the Plasco demonstration project, prepare and give to the Director of the Ministry's Environmental Assessment and Approvals Branch and to the District Manager of the Ministry's Ottawa District Office a traffic and noise study that describes the anticipated impacts of the demonstration project on traffic and noise levels in the area surrounding the Nepean Landfill and sets out measures to minimize any undesirable impacts.	The traffic and noise studies that provide the information as required for the Nepean Landfill, were submitted to the Director of the Ministry's Assessment and Approvals Branch on January 12, 2007	Compliant	
4	Spill Prevention and Contingency Plans	<ol style="list-style-type: none"> 1) Plasco Trail Road Inc. shall develop and implement plans under Section 91.1 of the Act in connection with the Plasco demonstration project. 2) Plasco Trail Road Inc. Shall give the plans referred to in subsection (1) to the Director of the Ministry's Environmental Assessment and Approvals Branch and to the District Manager of the Ministry's Ottawa District Office before municipal waste is first received as part of the Plasco demonstration project. 	<ol style="list-style-type: none"> 1) Plasco Trail Road Inc. developed and implemented spill prevention and spill contingency plans under Section 91.1 of the Act on March 12, 2007. 2) Plasco Trail Road Inc. submitted plans referred to in subsection (1) to the Director of the Ministry's Environmental Assessment and Approvals Branch and to the District Manager of the Ministry's Ottawa District Office on March 12, 2007. 	Compliant	The Spill Prevention and Contingency Plan is currently under revision to reflect process and equipment modifications at the facility.
5	Notice of Date Waste First Received	Plasco Trail Road Inc. shall give the Director of the Ministry's Environmental Assessment and Approvals Branch and the District Manager of the Ministry's Ottawa District Office notice in writing of the date that municipal waste is first received as part of the Plasco demonstration project not later than 15 days after that date.	Notices were given to the MOE no later than 15 days after first municipal waste was received.	Compliant	Waste first received January 24, 2008 and MOE was onsite for inspection on January 25, 2008.
6	Final Date for Processing Waste	<p>Plasco Trail Road Inc. shall ensure that no waste is received or processed as part of the Plasco demonstration project after the second anniversary of the date that municipal waste is first received as part of the demonstration project.</p> <p><u>Revoked & replaced January 25, 2010:</u> Plasco Trail Road Inc. Shall ensure that no waste is received or processed as part of the Plasco demonstration project after one year from the day this Section comes into force. (Regulation comes into force on January 21, 2010).</p>	Plasco Trail Road Inc. last processed waste as part of the Plasco Demonstration Project on December 17, 2010.	Compliant	O.Reg. 254/06 S. 6 amended by O.Reg. 11/10 extending the final date for processing waste to one year from the day this Section comes into force (January 21, 2010).

TABLE 2.1 - Status of Compliance for the Plasco Demonstration Project with O.Reg. 254/06, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
7	Types of Waste	<p>Plasco Trail Road Inc. shall ensure that no waste is received or processed as part of the Plasco demonstration project other than:</p> <ul style="list-style-type: none"> a) Municipal waste that is collected by, or on behalf of, the City of Ottawa and that would otherwise have been disposed of at the Trail Road Landfill; b) Municipal waste that would otherwise have been disposed of within the boundaries of the City of Ottawa, other than at the Trail Road Landfill; and, c) Municipal waste that has been processed by Les Sols Calco Soils Inc. under provisional certificate of approval number 4130-5ZKH3W issued under Section 39 of the Act and that is not being recycled. <p><u>7 (c) Revoked and replaced January 28, 2008:</u> High carbon waste resulting from waste processing activities at Lafcorp Inc. under Provisional Certificate of Approval number 4130-5ZKH3W that is not suitable for recycling and that would otherwise have been disposed of at an approved waste disposal site.</p>	Plasco Trail Road Inc. receives only the types of waste as established in condition 7 of this regulation.	Compliant	No waste has been received from Lafcorp Inc. (Details presented in Appendix I).
8	Amount of Waste	<p>Plasco Trail Road Inc. shall ensure that:</p> <ul style="list-style-type: none"> a) Not more than 85 tonnes of municipal waste are processed on any day as part of the Plasco demonstration project; and, b) Not more than 10 tonnes of waste described in clauses 7 (b) and (c) are processed on any day as part of the Plasco demonstration project. 	Plasco Trail Road Inc. confirms that Condition 8, regarding the amount of waste processed on Site is in compliance.	Compliant	Details presented in Appendix I.
9	Times for receiving or Transferring Waste	<p>Plasco Trail Road Inc. shall ensure that waste is received at or transferred from the Nepean Landfill as part of the Plasco demonstration project only during the following times:</p> <ul style="list-style-type: none"> 1) On Mondays, Tuesdays, Thursdays and Fridays from 7:00 a.m. until 6:00 p.m. 2) On Wednesdays from 7:00 a.m. until 9:00 p.m. from April 15 to December 15. 3) On Wednesdays from 7:00 a.m. until 6:00 p.m. from December 16 to April 14. 4) On Saturdays from 8:00 a.m. until 4:00 p.m. O. Reg. 254/06, s. 9. 	Plasco Trail Road Inc. confirms that waste is received at or transferred from the Nepean Landfill as part of the Plasco Demonstration Project only during the times allowed.	Compliant	
10	Continuous Monitoring	Plasco Trail Road Inc. shall ensure that a continuous emission monitoring system is installed as part of the Plasco demonstration project and that all discharges from the demonstration project into the air are continuously monitored to determine the concentrations of NO _x , HCl, SO ₂ and Organic Matter.	Plasco Trail Road Inc. installed a continuous emission monitoring system to continuously monitor and determine the concentration for NO _x , HCl, SO ₂ , and Organic Matter on April 23, 2007.	Compliant	See Appendix IV, Tables AIV-1 & AIV-2 for weekly CEMS Data. Engines exhausted to the atmosphere for 1 hour & 2 minutes during the semi-annual reporting period.

TABLE 2.1 - Status of Compliance for the Plasco Demonstration Project with O.Reg. 254/06, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
11	Source Testing	Plasco Trail Road Inc. shall ensure that source tests are conducted on discharges from the Plasco demonstration project into the air to determine the concentrations of Particulate Matter, Mercury, Cadmium, Lead and Dioxins and Furans.	Due to ongoing changes in operations at the Plasco Trail Road Inc. demonstration plant, Plasco was unable to perform Source testing within the first year of commissioning of the project. Plasco Trail Road completed source testing of Scenarios 1 and 2 at the Flare (November & December 2009, January 2010) and at the Engine 3 Reroute (March, April & May 2010) for the prescribed substances as listed. Plasco Trail Road completed additional source testing of Scenarios 1 and 2 at the Flare and at the Engine 1 Superbypass in December 2010 for the prescribed substances as listed.	n/a	Source testing results are pending validation by the MOE.
12	Maximum Emission Limits	Plasco Trail Road Inc. shall ensure that the concentration of a contaminant listed in Schedule 1 in a discharge from the Plasco demonstration project into the air does not exceed the maximum limit set out for that contaminant in that Schedule.	Plasco Trail Road Inc. operates the facility so that the concentration of a contaminant listed in Schedule 1 in a discharge from the Plasco Demonstration Project into the air does not exceed the maximum limit set out for that contaminant in that Schedule.	Compliant	Specific events of non-compliance occurred due to process upsets and atypical control parameters during process testing events. Emission limits were exceeded for organic matter at the Flare on eighteen (18) occasions during the Demonstration Project (October 22, 27, & 29, 2010 during semi-annual period). Emission limits were exceeded for NOx at the Flare on two (2) occasions during the Demonstration Project (November 8, 2010 during the semi-annual period).
13	Cessation of Discharges	Plasco Trail Road Inc. shall ensure that the steps outlined in condition 13 (subsection B) will be followed if any such incident as listed in condition 13 (subsection A) from 1 to 7 occur.	Plasco Trail Road Inc. confirms that all steps listed under (1) are followed when a discharge occurs.	Compliant	Six (6) Cessations of Discharge were declared during the Demonstration Project. No Cessation of Discharge was declared during the semi-annual reporting period.

TABLE 2.1 - Status of Compliance for the Plasco Demonstration Project with O.Reg. 254/06, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
14	Public Meetings	<p>(1) Plasco Trail Road Inc. shall give notice of and hold public meetings to discuss the Plasco demonstration project, including:</p> <ul style="list-style-type: none"> a) Before waste is first received on site; b) Between 3 and 6 months after waste is first received on site; c) Between 9 and 12 months after waste is first received on site; and, d) In the month following the day that waste is last received. 	<p>Plasco Trail Road Inc. gave notice of public meetings through the two main local newspapers, Ottawa Sun and Ottawa Citizen. Notice was also placed on www.zerowasteottawa.com.</p> <ul style="list-style-type: none"> a) First public meeting held on April 11th, 2007 in Barrhaven. Notice was given to the MOE on March 24th, 2007. A legal notice was filed in both the Ottawa Sun and Ottawa Citizen on March 24th 2007. Advertisements were placed in the Ottawa Sun, Citizen and Metro on April 10th, 2007. Notice was also placed on zerowasteottawa.com. b) Second meeting held on July 24th, 2008 in Barrhaven. Notice was given to the MOE on July 9th, 2008. Advertisements were placed in the Ottawa Citizen on Friday July 11th and in the Ottawa Sun July 12th. Two more ads were placed on Monday July 21st in both papers. Notice was also placed on zerowasteottawa.com. c) The third meeting was held on December 6th, 2008. Notice was given to the MOE on November 17th, 2008. Advertisements were placed in the Ottawa Citizen and Ottawa Sun on Tuesday November 18th. Two more ads were placed on Wednesday December 3rd in both papers. Notice was also placed on zerowasteottawa.com. d) The final public meeting to discuss the Plasco Demonstration project was held in Barrhaven on January 27, 2011. Advertisements were placed in the Ottawa Sun and Ottawa Citizen on January 11, 2011. Notice was also placed on zerowasteottawa.com. 	Compliant	<p>Public meetings were held in April 2007, July 2008, December 2008, and January 2011 in accordance with the Regulation and Amended Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ.</p> <p>An additional public meeting was held on April 22, 2010. Notice was sent to the MOE and City of Ottawa on March 31, 2010. Public notice was advertized in the Ottawa Sun and Ottawa Citizen on April 1, 2010.</p>
15	Public Comments and Complaints	<ul style="list-style-type: none"> 1) Plasco Trail Road Inc. shall maintain a system for receiving complaints and comments from the public about the demonstration project, including a system for receiving those complaints and comments during and outside of normal business hours. 2) Plasco Trail Road Inc. shall make records of the complaints and comments received from the public about the Plasco demonstration project, including records of actions taken in response to the complaints and comments and records of the results of those actions. 	<p>Plasco Trail Road Inc. confirms that a system is maintained for receiving complaints from the public for the prescribed times and that records are made for any complaints or comments received from the public about the facility or the project. No complaints have been made.</p>	Compliant	<p>No complaints have been received during the demonstration project.</p>
16	Public Information	<p>Plasco Trail Road Inc. shall, through the use of a website, provide information to the public including:</p> <ul style="list-style-type: none"> a) Information on activities that are part of the undertaking, including monitoring activities; b) Information on all documents related to the demonstration project that it is required to give to the Ministry or under any certificates of approval or provisional certificates of approval that apply to the demonstration project; and, c) Information on the system referred to in Section 15 for receiving complaints and comments. 	<p>Plasco Trail Road Inc. provides information about the demonstration project through the website www.zerowasteottawa.com and confirms that the required information is accessible. Information is given on how to access documents and on activities occurring with the project, such as monitoring activities.</p>	Compliant	

TABLE 2.1 - Status of Compliance for the Plasco Demonstration Project with O.Reg. 254/06, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
17	Monthly Engineer's Reports	Plasco Trail Road Inc. shall ensure that once a month, a Professional Engineer, who is not an employee of Plasco Trail Road Inc. a) Inspects all aspects of the Nepean Landfill that Plasco Trail Road Inc. utilizes; b) Reviews all documents that are required by this regulation and all CofAs for Plasco Trail Road Inc.; and, c) Provides a report, signed by a Professional Engineer, that includes results of inspection and revisions of documents, and Confirms that Plasco has complied with this Regulation and with all CofAs.	A Professional Engineer, Project Manager, Decommissioning Consulting Services (DCS) Ottawa, once every calendar month, performs the duties as required in this regulation under subsections 1(a), (b) and (c) at Plasco Trail Road Inc. The following monthly reports have been submitted for this semi-annual reporting period: 1) Operating Month of August 2010, submitted September 7, 2010; 2) Operating Month of September 2010, submitted October 12, 2010; 3) Operating Month of October 2010, submitted November 8, 2010; 4) Operating Month of November 2010, submitted December 7, 2010; 5) Operating Month of December 2010, submitted January 7, 2011; and, 6) Operating Month of January 2011, submitted February 7, 2011.	Compliant	
18	Immediate Report of Non-Compliance	Plasco Trail Road Inc. shall immediately give the District Manager of the Ministry's Ottawa District Office notice in writing if, under subsection 17 (3) or otherwise, it becomes aware of any circumstance indicating that it may not have substantially complied with this Regulation or with any certificates of approval or provisional certificates of approval that apply to the Plasco demonstration project.	If Plasco Trail Road Inc. becomes aware of any circumstance indicating that it may not have complied with this Regulation or with any applicable certificates of approval for the Plasco Demonstration Project, Plasco Trail Road Inc. agrees to notify the Ministry as required.	Compliant	The MOE Ottawa District Manager was immediately notified, in writing, of emission non-compliance events.
19	Compliance Reports	1) Plasco Trail Road Inc. shall, for each six-month period following the date that municipal waste is first received, prepare a report describing how it complied during that period with this Regulation and with any certificates of approval or provisional certificates of approval that apply to the demonstration project. 3) Plasco Trail Road Inc. shall, for the period that begins on the day after the end of the last six-month period to which subsection (1) applies and that ends on the day municipal waste is last processed as part of the Plasco demonstration project, prepare a report describing how it complied during that period. 4) Plasco Trail Road Inc. shall give each report prepared under subsection (1) or (3) to the Director of the Ministry's Environmental Assessment and Approvals Branch and to the District Manager of the Ottawa's District Office not later than 2 months after the end of the reporting period for which the report applies.	1) This report describes how the Plasco Trail Road Inc. Demonstration Project complied during the last six months (August 1, 2010 – January 21, 2011) of operation with this Regulation and with any applicable Certificates that apply to the Demonstration Project. 3) This report describes the Plasco Trail Road Inc. Demonstration Project complied during the last six months (August 1, 2010 – January 21, 2011) of operation with this Regulation and with any applicable Certificates that apply to the Demonstration Project. 4) The first semi-annual report was prepared and submitted to the District Manager on November 3, 2008 in accordance with Condition 63 of the Certificate of Approval (Waste). The second semi-annual report for the second half of the first year of operation was contained within the annual report, as agreed upon with the Ministry, and was submitted on March 24, 2009.	Compliant Compliant Non-Compliant	The final semi-annual report (August 2010 – January 2011) is incorporated in the Final Assessment Report. The Semi-Annual Report for the July 25, 2009 – January 21, 2010 reporting period was submitted on April 5, 2010.

TABLE 2.1 - Status of Compliance for the Plasco Demonstration Project with O.Reg. 254/06, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
20	Final Assessment Report	Not later than three months after municipal waste is last processed as part of the Plasco demonstration project, Plasco Trail Road Inc. shall prepare and give to the Director of the Ministry's Environmental Assessment and Approvals Branch and to the District Manager of the Ministry's Ottawa District Office a report that: a) Summarizes the operation of the demonstration project; b) Summarizes how Plasco Trail Road Inc. Complied during the demonstration project with this Regulation and all CofAs; and, c) Evaluates the ability of the demonstration project to process municipal waste and generate electricity using municipal waste as a fuel source.	This report describes how the Plasco Trail Road Inc. Demonstration Project complied during both the last six months (August 1, 2010 – January 21, 2011) and the entire Demonstration period (January 25, 2008 – January 21, 2011).	Compliant	O.Reg. 254/06 amended by O.Reg. 11/10 extending the final date for processing waste to January 21, 2011.
21	Documents to be Kept	1) During the period that the Plasco demonstration project is carried out, Plasco Trail Road Inc. Shall keep, at the Nepean Landfill or at another location approved by the Director of the Ministry's Environmental Assessment and Approvals Branch, copies of all documents related to the demonstration project that it is required to give to the Director of the Ministry's Environmental Assessment and Approvals Branch or to the District Manager of the Ministry's Ottawa District Office under this Regulation or under any certificates of approval or provisional certificates of approval that apply to the demonstration project. 2) Plasco Trail Road Inc. shall make the copies referred to in subsection (1) available on request to employees of the Ministry.	Plasco Trail Road Inc. maintains copies of all documents related to the Demonstration Project, at the Closed Nepean Land fill Site located in the City of Nepean, Part of Lot 9, Concession 4, Rideau Front and will make the copies available to the MOE upon request.	Compliant	
22	Determination of Contaminant Concentrations	For the purpose of this Regulation, the concentration of a contaminant listed in Schedule 1 or 2 shall be determined in accordance with the "Comments" column of that Schedule	Plasco Trail Road Inc. confirms that all concentrations of contaminants listed in the O.Reg. 254/06 Schedules 1 and 2 are determined in accordance with the corresponding "Comments" column in the Schedule.	Compliant	

2.3 Status of Compliance with Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ

The following section will demonstrate Plasco Trail Road Inc.'s compliance with Provisional Certificate of Approval - Waste Disposal Site No. 3166-6TYMDZ issued on December 1, 2006, as amended. Table 2.2 outlines conditions as specified in the Certificate of Approval and the status of compliance for Plasco Trail Road Inc.

TABLE 2.2 - Status of Compliance for the Plasco Demonstration Project with Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
2	Compliance	Any person authorized to carry out work on, or operate any aspect of, the Site shall be notified of the Certificate and conditions herein and all reasonable measures taken to ensure any such person complies with the same.	Training has been implemented at all Plasco Trail Road Inc. Demonstration Project for all relevant staff. The training manual was completed on November 22, 2007, as stated in the training report held on site, and was submitted to the Ministry of Environment, Ottawa District Office December 6, 2007.	Compliant	
3	Compliance	Persons authorized to carry out work on or operate any aspect of the Site shall comply with the conditions of this Certificate.	Conditions of this certificate have been outlined in the Design and Operations Manuals and any person involved in operation or site work has been trained accordingly on Site as stated in Condition 2.	Compliant	
4	Build in Accordance with Certificate	The Site shall be designed, developed, built, operated and maintained in accordance with the applications for this Certificate, the Design and Operating Manual as amended from time to time, and all other supporting documents listed in Schedule "A".	Site is designed and operates in compliance with these conditions. Modifications to the Plasco Facility have been included in Design and Operations Reports submitted throughout operation of the facility. DORs have been submitted to the Ministry over the period of operation in December 2007, June 2008, November 2008, March 2009 and August 2009.	Compliant	
5	Interpretation	Conflicts of document provisions, this Certificate shall take precedence.	In compliance.	Compliant	CofA - Waste Disposal Site takes precedence.
6	Interpretation	Conflicts of an application and a provision for documents in Schedule A, the application takes precedence.	All modifications and changes in operational procedures are according to this CofA and any addendums to it that have been updated. Addendums include the following: CofA Waste Disposal Site 3166-6TYMDZ issued December 1, 2006, Amendment Notice 1 issued Sept 5, 2007, Amendment Notice 2 issued Jan 28, 2008, Amendment Notice 3 issued July 31, 2008, Amendment Notice 4 issued Dec 9, 2008, Amendment Notice 5 issued March 24, 2009, Amendment Notice 6 issued January 25, 2010 and CofA Waste Disposal Site 3166-6TYMDZ issued January 13, 2011.	Compliant	
7	Interpretation	Conflicts between two Schedule A document (non applications), the most recent document take precedence.	In compliance.	Compliant	
8	Interpretation	The requirements of this Certificate are severable.	In compliance.	Compliant	
9	Interpretation	Unless otherwise specified, the obligations set out in this Certificate are those of both the Owner and Operator.	In compliance.	Compliant	
10	Other Legal Obligations	The issuance of, and compliance with the conditions of, this Certificate does not; a) Relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement; or, b) Limit in any way the authority of the Ministry to require certain steps be taken or to require the Owner and Operator to furnish any further information related to compliance with this Certificate.	In compliance.	Compliant	

TABLE 2.2 - Status of Compliance for the Plasco Demonstration Project with Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
11	Adverse Effects	Steps shall be taken to minimize and ameliorate any adverse effects on the natural environment or impairment of water quality that results from their operations at the Site, including such accelerated or additional monitoring as may be necessary to determine the nature and extent of the effect or impairment.	Examples of efforts to reduce environmental effects through emissions sources are documented in the traffic and noise study submitted to the Ministry's Ottawa District Office on January 12, 2007.	Compliant	
12	Adverse Effects	The Owner, Operator or any other person remains responsible for any contravention of any other condition of this Certificate or any applicable statute, regulation, or other legal requirement resulting from any act or omission that caused the adverse effect to the natural environment or impairment of water quality.	In compliance.	Compliant	
13	Change of Owner	Notification of changes in Owner or Operator.	No ownership change. In compliance.	Compliant	
14	Change of Owner	Notification requirements for transfer/encumbrance.	No changes. In compliance.	Compliant	
15	Financial Assurance	Submission of Financial Assurance. This Financial Assurance shall be in a form and amount acceptable to the Director and shall provide sufficient funds for the analysis, transportation, Site Clean-up, monitoring and disposal of all quantities of waste on-site at any one time.	Original Financial Assurance was submitted March 23, 2007. The Financial Assurance has been updated on January 28, 2008, July 31, 2008, September 23, 2009, and October 21, 2010.	Compliant	
16	Financial Assurance	No later than March 31, 2007 and on an annual basis thereafter, the Owner shall provide to the Director a written re-evaluation of the amount of the Financial Assurance required to carry out the matters specified in Condition 15. The re-evaluation shall be based on the Financial Assurance Guideline applicable at the time of any re-evaluation. The revised Financial Assurance amount must be submitted to the Director within ten (10) days of written acceptance of the re-evaluation by the Director.	A written re-evaluation of the amount of Financial Assurance required to carry out the matters specified in Condition 15, based on the Financial Assurance Guideline applicable at the time of any re-evaluation, was submitted to the Director, and verified by the Ministry.	Compliant	Financial Assurance was most recently re-evaluated and submitted to the Ministry on October 21, 2010.
17	Financial Assurance	If any Financial Assurance is scheduled to expire or notice is received, indicating Financial Assurance will not be renewed, and satisfactory methods have not been made to replace the Financial Assurance at least sixty (60) days before the Financial Assurance terminates, the Financial Assurance shall forthwith be replaced by cash.	Assurance in place.	Compliant	
18	Inspections	No person shall hinder or obstruct a Provincial Officer in the performance of their duties, including any and all inspections authorized by the OWRA, the EPA, or the PA of any place to which this Certificate relates.	In compliance. No instances of non-conformance reported.	Compliant	
19	Information and Record Retention	Any information including any records required under this Certificate, shall be provided to MOE upon request and kept for a minimum of five years.	A records management system has been established and the Certificate has been reviewed to identify record requirements.	Compliant	

TABLE 2.2 - Status of Compliance for the Plasco Demonstration Project with Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
20	Information and Record Retention	The receipt of any information by the Ministry or the failure of the Ministry to prosecute any person or to require any person to take action, under this Certificate or under any statute, regulation or other legal requirement, in relation to the information, shall not be construed as: a) An approval, waiver or justification by the Ministry of any act or omission of any person that contravenes any term or condition of this Certificate or any statute, regulation or other legal requirement; or, b) Acceptance by the Ministry of the information's completeness or accuracy.	In compliance.	Compliant	
21	Construction	As-built drawings to be provided to MOE.	General Arrangement drawings (GAs) are provided within each updated Design and Operations Report submitted to the Ministry.	Compliant	GA drawings have been revised to reflect proposed upcoming operations at the facility.
OPERATION & MAINTENANCE					
22	Operation	The Site shall be operated and maintained at all times including management and disposal of all waste in accordance with the EPA, Regulation 347 and the conditions of this Certificate. At no time shall the discharge of a contaminant that causes or is likely to cause an adverse effect be permitted.	The Plasco Trail Road Inc. facility is operated as per Regulation 347 and the conditions of this Certificate, as outlined in the current Design and Operations Report submitted to the Ministry on August 31, 2009.	Compliant	
23	Demonstration Period	The Owner shall provide written notification to the Director and District Manager of the date that Municipal Waste is first received at the Site as part of the demonstration project. This notification shall be provided no later than fifteen days after the Start-up date.	The Owner has provided written notification to the Director and District Manager of the start-up date for when Municipal Waste is first received at the Site. This notification has been documented in a notice provided to the Ministry on or about January 24, 2008.	Compliant	MOE Officers were on site to observe MSW handling January 25, 2008.
24	Demonstration Period	The Owner shall not receive or process any amount of waste at the Site and shall ensure that all waste is removed from the Site after the second anniversary of the Start-up date. <u>Revoked & replaced January 25, 2010:</u> The Owner shall not receive or process any amount of waste at the Site after January 21, 2011, and shall ensure that all waste is removed from the Site no later than January 21, 2011.	All waste was removed from the Site no later than January 21, 2011.	Compliant	O.Reg. 254/06 amended by O.Reg. 11/10 extending the final date for processing waste to January 21, 2011.

TABLE 2.2 - Status of Compliance for the Plasco Demonstration Project with Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
25	Public Meetings	<p>The Owner shall hold regular public information meetings to update the local community regarding the operation of the Site. The Owner shall provide the Director and District Manager with written notification and shall place notices in two local newspapers advising of the time, date and location of each public meeting at least 15 days prior to the date of each meeting. At a minimum, the following public information meetings shall be held:</p> <ul style="list-style-type: none"> a) Before the Start-up date; b) Between the 3 and 6 months of operation; c) Between the 9 and 12 months of operation; and, d) Within a month of the last day waste is processed on site. <p><u>25 (e) Added January 25, 2010:</u></p> <ul style="list-style-type: none"> e) A public information meeting shall be held within three (3) months of the date of issuance of this Notice, to which the Owner shall invite the Algonquins of Pikwakanagan, the Métis Nation of Ontario and the Mohawks of Akwesasne to address the following: <ul style="list-style-type: none"> 1) The continued operation of the Facility for another year; 2) The status of the Facility at the time two (2) years after the Start-up date; and, 3) The plan on the operation of the Facility in its third year of operation. 	<p>Plasco Trail Road Inc. gave notice of public meetings through the two main local newspapers, Ottawa Sun and Ottawa Citizen. Notice was also placed on www.zerowasteottawa.com.</p> <ul style="list-style-type: none"> a) First public meeting held on April 11th, 2007 in Barrhaven. Notice was given to the MOE on March 24th, 2007. A legal notice was filed in both the Ottawa Sun and Ottawa Citizen on March 24th 2007. Advertisements were placed in the Ottawa Sun, Citizen and Metro on April 10th, 2007. Notice was also placed on zerowasteottawa.com. b) Second meeting held on July 24th, 2008 in Barrhaven. Notice was given to the MOE on July 9th, 2008. Advertisements were placed in the Ottawa Citizen on Friday July 11th and in the Ottawa Sun July 12th. Two more ads were placed on Monday July 21st in both papers. Notice was also placed on zerowasteottawa.com. c) The third meeting was held on December 6th, 2008. Notice was given to the MOE on November 17th, 2008. Advertisements were placed in the Ottawa Citizen and Ottawa Sun on Tuesday November 18th. Two more ads were placed on Wednesday December 3rd in both papers. Notice was also placed on zerowasteottawa.com. d) A public meeting was held in Barrhaven on January 27, 2011. Advertisements were placed in the Ottawa Sun and Ottawa Citizen on January 11, 2011. Notice was also placed on zerowasteottawa.com. e) A public meeting was held on April 22, 2010 as per the Regulation and Amended Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ. Notice was sent to the MOE and City of Ottawa on March 31, 2010. Public notice was advertized in the Ottawa Sun and Ottawa Citizen on April 1, 2010. 	Compliant	
26	Traffic and Noise Study	<p>Prior to any amount of waste being received at the Site the Owner shall provide a traffic and noise study to the Director and the District Manager that describes the anticipated impacts of the Site on traffic and noise levels in the area surrounding the Nepean Landfill Site (Closed) and sets out measures to be followed to minimize any undesirable impacts.</p>	<p>Prior to any waste being received on site, the Owner provided a traffic and noise study to the Director and the District Manager that provides all required information under this Section. A report completing a noise (acoustic assessment) released from the Plasco Trail Road Inc. site was submitted to the Ministry on the date of January 12, 2007.</p>	Compliant	
27	Public Website	<p>The Owner shall maintain a website that can be accessed by the general public containing electronic copies (with the exclusion of any confidential financial or commercial information) of:</p> <ul style="list-style-type: none"> a) O.Reg. 254/06; b) Certificates of Approval; c) Telephone number to which complaints may be directed; and, d) Monthly Engineer’s Reports, Semi-Annual Progress Reports, and the Final Assessment Report 	<p>The website www.zerowasteottawa.com has been established and contains the required updated site information.</p>	Compliant	

TABLE 2.2 - Status of Compliance for the Plasco Demonstration Project with Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
28	Approved Waste Types and Service Area	<p>The Owner may only accept the following categories of Municipal Waste at the Site:</p> <ul style="list-style-type: none"> a) Domestic Waste originating from curbside collection within the City of Ottawa that would otherwise have been disposed of at the Trail Road Landfill; b) High carbon waste originating within the City of Ottawa that is not suitable for recycling and that would otherwise have been disposed of at the Trail Road Landfill; and, c) High carbon waste resulting from waste processing activities at Les Sols Calco Soils Inc. under Provisional Certificate of Approval No. 4130-5ZKH3W that is not suitable for recycling and that would otherwise have been disposed of at an appropriate waste disposal site. <p><u>28 (c) Revoked and replaced January 28, 2008:</u> High carbon waste resulting from waste processing activities at Lafcorp Inc. under Provisional Certificate of Approval number 4130-5ZKH3W that is not suitable for recycling and that would otherwise have been disposed of at an approved waste disposal site.</p>	Plasco Trail Road Inc. confirms that the most current acceptable categories of waste are being received and are in compliance with this Section 28.	Compliant	No waste has been received from Lafcorp Inc. (Details presented in Appendix I).
29	Approved Limits	<p>Maximum of fifteen (15) truckloads of waste may be received at the Site per day.</p> <p><u>Revoked & replaced March 24, 2009:</u> Maximum of twenty-five (25) truckloads of waste may be received at the Site per day.</p>	In compliance.	Compliant	
30	Approved Limits	<p>The Site is approved to utilize</p> <ul style="list-style-type: none"> a) Domestic Waste referred to in Condition 28(a) at a rate not to exceed 75 tonnes per day; and, b) High carbon waste referred to in Condition 28(b)&(c) at a combined maximum rate not to exceed 10 tonnes per day. 	<p>Plasco Trail Road Inc. Confirms that</p> <ul style="list-style-type: none"> a) No more than 75 tonnes of municipal waste are processed on any day; and, b) No more than 10 tonnes of waste at a combined minimum, described in clauses 28(b) and 28(c) are processed on any day. 	Compliant	Details presented in Appendix I.

TABLE 2.2 - Status of Compliance for the Plasco Demonstration Project with Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
31	Approved Limits	<p>The maximum amount of waste that may be present at the Site at any one time shall not exceed the following:</p> <p>a) Incoming waste:</p> <ul style="list-style-type: none"> i. 300 tonnes Domestic Waste stored in the MSW building; and, ii. 100 tonnes High carbon waste stored in the plastics storage building. <p><u>31 (b)&(c) Revoked & replaced July 31, 2008:</u></p> <p>b) Solid Residual waste:</p> <ul style="list-style-type: none"> i. 100 tonnes slag stored within 5 luggers; ii. 25 tonnes wet sulphur waste from the H2S removal system filterpress; iii. 800 kg flyash waste from the mini-baghouse; iv. 60 tonnes converter bottom ash and partially converted solid waste; v. 30 tonnes ash from the main baghouse; vi. 15 tonnes non-processable waste; and, vii. A maximum of 3 drums of hazardous waste segregated from the incoming waste stream and stored in the MSW building. <p>c) Liquid Residual waste:</p> <ul style="list-style-type: none"> i. 159,000 L liquid industrial waste in TK-6102; ii. 15,000 L liquid industrial waste in TK-6112; iii. 780 L liquid industrial waste in TK-6105; iv. 5400 L liquid industrial waste or hazardous waste in southern Ash storage building sump pit TK-1256; and, v. 2700 L liquid industrial waste in northern Ash storage building sump pit TK-1257. 	Plasco Trail Road Inc. confirms that the maximum amount of waste that may be present at the Site at any time does not exceed the required limits as specified under this condition.	Compliant	
32	Hours of Operation	<p>a) The Site may operate 24 hours per day, 365 days per year.</p> <p>b) Waste shall only be received at the Site and Residual Waste may only be transferred from the Site:</p> <ul style="list-style-type: none"> i. On Mondays, Tuesdays, Thursdays and Fridays between 7:00 - 18:00; ii. On Wednesdays between 7:00 - 21:00 from April 15 to December 15; iii. On Wednesdays between 7:00 - 18:00 from December 16 to April 14; and, iv. On Saturdays between 8:00 - 16:00. 	Plasco Trail Road confirms that waste is only received or transferred during the prescribed hours under this Certificate.	Compliant	
33	Site Security and Signage	The Site shall be operated and maintained in a secure manner, such that unauthorized persons cannot enter the Site.	Plasco Trail Road Inc. confirms that the Site is being operated and maintained in a secure manner. Security is outlined in the Design and Operations Report in Section 12.2.1. As part of the Security on site, the facility has improved fencing.	Compliant	
34	Site Security and Signage	Sign to be posted and maintained at the main entrance/exit to the Site.	A sign has been posted and is maintained at the main entrance/exit to the Site displaying in a manner that is clear and legible from the public road bordering the Site. The sign contains the information required in this CofA Waste S. 34.	Compliant	

TABLE 2.2 - Status of Compliance for the Plasco Demonstration Project with Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
35	Receiving	All waste arriving at the Site shall be inspected by a Trained person prior to being received at the Site to ensure wastes are being managed and disposed of in accordance with this Certificate, the EPA and Reg. 347.	All waste arriving on the Site is being inspected by trained personnel as per the Plasco Training Manuals prior to being received at the Site to ensure wastes are being managed and disposed of in accordance with requirements. Waste reception procedures are provided in the most current version of the Design and Operations Report (dated August 31, 2009) that was submitted to the Ministry's Environmental Assessment and Approvals Branch office and the Ministry's Ottawa District Office.	Compliant	
36	Receiving	In the event that a load of waste is rejected, a record shall be maintained identifying the reason the waste was refused, the type of waste that was refused and the generator and/or the origin of the waste, if known.	If a load of waste is rejected, a record is maintained identifying the required information as specified in this CofA Waste.	Compliant	A load of MSW was rejected on April 7, 2010 due to unsuitable fuel content.
37	Labelling	All waste storage containers at the Site have a label or sign identifying the waste type and when applicable the waste class(es), the waste characteristic, WHMIS and TDGA classification of the contents contained within. The label or sign shall be clearly visible for inspection and record keeping.	All waste storage containers at the Site have a label or sign identifying the required information. The label or sign is clearly visible for inspection and record keeping. Safety Procedures are outlined for WHMIS and TDGA within the Appendices of the most recent Design and Operations Report provided to the Ministry's Environmental Assessment and Approvals Branch on August 31, 2009.	Compliant	
38	Storage	All waste received at the Site shall be unloaded, processed and stored at the locations shown in the General Arrangement Drawing (Drawing Number 141-DL-0260) found in Schedule "A" of this Certificate.	All waste received at the Site is unloaded, processed and stored at the locations shown in the General Arrangement Drawing (Drawing Number 141-DL-0260) found in Schedule "A" of this Certificate. Waste storage is explained within the Design and Operations Report which was submitted on August 31, 2009 to the Ministry's Environmental Assessment and Approvals Branch office.	Compliant	
39	Storage	All waste and process chemicals shall be stored in accordance with "Guidelines for Environmental Protection Measures at Chemical Storage Facilities", dated October 1978 or as amended. Wastes and process chemicals shall be segregated from other incompatible wastes and materials.	All waste and process chemicals are being stored in accordance with the MOE storage guidelines. Wastes and process chemicals are being segregated from other incompatible wastes and materials.	Compliant	
40	Processing	The waste management functions that shall be carried out at the Site as approved by this Certificate are limited to the operations as described in the Site's DOR contained within Item 3 of Schedule A.	In compliance.	Compliant	
41	Processing	A Procedures Manual specific to the Site shall be prepared a minimum of 30 days prior to the acceptance of any waste at the Site. The Procedures Manual shall contain detailed standard operating procedures relating to all aspects of the handling and processing of waste at the Site and shall be maintained current at all times and kept at the Site in central location that is accessible to Site personnel.	A Procedures Manual was prepared and was in effect by December 14, 2007. The Procedures Manual contains detailed standard operating procedures relating to all aspects of the handling and processing of waste at the Site. The Manual is updated regularly as improved methods of operation are identified.	Compliant	

TABLE 2.2 - Status of Compliance for the Plasco Demonstration Project with Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
42	Odour	a) The Owner shall ensure that the doors of the material handling building shall be kept closed at all times and shall only be opened for entry or departure of vehicles; b) In the event of a persistent odour issue at the Site that results in an offsite adverse impact, the Owner shall implement additional odour control measures in accordance with the odour contingency plan described in Item 8 of Schedule "A".	In compliance. An odour strategy was prepared and submitted to the Ministry's Environmental Assessments and Approvals Branch on the date of November 28, 2006. No odour complaints have been received.	Compliant	No odour complaints have been received.
43	Odour	a) Domestic Waste received at the Site shall be utilized within seventy two (72) hours. <u>43(a) Revoked & replaced March 24, 2009:</u> Domestic Waste received at the Site shall be utilized within ninety-six (96) hours. b) Domestic Waste shall be removed from the loading/unloading area for disposal at an approved waste disposal site within forty eight (48) hours during emergency situations, mechanical failure or process upsets. <u>43(b) Revoked & replaced March 24, 2009:</u> Domestic Waste shall be removed from the loading/unloading area for disposal at an approved waste disposal site within seventy-two (72) hours during emergency situations, mechanical failure or process upsets.	In compliance, with one exception when waste was not removed from the site within 72 hours in January 2009. In compliance, with one exception when domestic waste received at the Site was not removed within ninety-six (96) hours on November 4, 2010.	Non-compliant	During the demonstration period, domestic waste was stored for an excess of the permitted storage times on two (2) occasions: January 2009 and December 2010. During the semi-annual period, domestic waste was held past the allowable 96-hour storage time on November 4, 2010.
44	Odour	The tipping floor shall be cleaned following each day's operation and shall be disinfected as necessary.	In compliance.	Compliant	
45	Odour	a) All waste generated at the Site shall be disposed of in accordance with Reg. 347; and, b) Only haulers approved by the Ministry shall be used to transport waste from the Site.	In compliance.	Compliant	
46	Landfill Gas Monitoring	Landfill gas monitoring is carried out at the Site in accordance with the landfill gas monitoring plan for the Nepean Landfill Site (Closed) as it is amended from time to time.	The Owner confirms that landfill gas monitoring is being carried out at the Site as specified under the conditions in Section 46 of this Certificate.	Compliant	
47	Site Inspection	A Trained Person shall inspect the entire Site each day the Site is in operation to ensure that the Site is secure, operations are not causing any nuisances, adverse effects on the environment, and operations are in compliance with this Certificate. Any deficiencies discovered shall be remedied immediately.	Trained personnel inspect the entire Site every shift to ensure that the Site is operated in compliance with this Certificate. Any deficiencies discovered are remedied as soon as possible, including temporarily ceasing operations at the Site if needed. Daily shift rounds include a visual inspection of the loading/unloading, storage, delivery, processing areas and fence line at the property boundary.	Compliant	

TABLE 2.2 - Status of Compliance for the Plasco Demonstration Project with Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
48	Site Inspection	A record of the inspections shall be kept in the daily log book that includes: a) Name and signature of person conducting inspection; b) Date and time of inspection; c) List of any deficiencies discovered; d) Recommendations for actions; and, e) Date, time and description of actions taken.	In compliance.	Compliant	
49	Monthly Engineer's Reports	Third party inspections of the Site shall be carried out by a Professional Engineer: a) Verify compliance with the requirements of O. Reg. 254/06 and Certificates of Approval, including a detailed walkthrough of the Site, a thorough review of daily inspection records and daily log book; b) A report signed by the Professional Engineer provided to the District Manager that summarizes the results of each inspection and certifies whether the Site has operated in substantial compliance with this Certificate, no later than 5 business days following the end of each calendar month; and, c) The Professional Engineer shall immediately notify the Owner in writing in the event that a non-compliance situation is observed – the Owner shall forthwith report the non-compliance to the District Manager in writing.	a) In compliance. b) Reports have been prepared by a Professional Engineer employed by Decommissioning Consulting Services (DCS) Ottawa, in compliance with this requirement. c) In compliance.	Compliant Non-Compliant Compliant	Two (2) of the six (6) Monthly Engineer's Reports were submitted late during the semi-annual reporting period.
50	Other Approvals	No waste shall be received at the Site and no Site processes and equipment shall be operated unless all approvals under Section 9 of the EPA, where applicable, have been obtained.	In compliance.	Non-Compliant	Commissioning of the new GQCS and Engine 1 SCO/SCR began prior to receiving October 27, 2010 Amended Certificate of Approval – Air No. 7043-8A7KNZ.
51	Other Approvals	All direct discharges from this Site including stormwater run-off shall be managed in accordance with applicable Municipal, Provincial and or Federal Legislation, Regulations and By-laws.	Direct Discharges from the site are documented in the Design and Operations Report, submitted to the Ministry's Environmental Assessment and Approvals Branch on August 22, 2008 and updated on August 31, 2009.	Compliant	A revised Operations, Maintenance and Monitoring Manual for the Stormwater Management Facility at PTR was issued on November 23, 2010.
52	Other Approvals	Prior to any amount of waste being received at the Site the Owner shall provide to the District Manager and the Director a copy of a Schedule II Notification for the Thio Bacillus W5 organism acknowledging that the culture has been approved for import to the Site in accordance with the requirements of the New Substances Notification Regulations SOR/94-260 under CEPA, 1999.	The Owner Confirms that prior to any amount of waste being received at the Site the Owner provided the District Manager and the Director a copy of a Schedule II Notification for the Thio Bacillus WS organism on November 1, 2006 to Tim Edwards at the Ministry and to Heather Darch at CEPA.	Compliant	

TABLE 2.2 - Status of Compliance for the Plasco Demonstration Project with Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
53	Training	a) A training plan shall be submitted to the District Manager a minimum of thirty (30) days prior to the acceptance of any waste at the Site. The training plan shall be developed, implemented and maintained for any persons that operate the Site. b) A record showing that all persons directly involved with activities relating to the Site have been trained in accordance with the requirements described in Condition 53(a) shall be maintained at the Site at all times.	a) A training plan was submitted to the District Manager on December 6, 2007. The training plan was developed, and is implemented and maintained for any persons that operate the process on site. b) Plasco Trail Road Inc. confirms that a record showing that all persons directly involved with activities relating to the Site have been trained in accordance with the requirements described in Condition 53(a) is maintained at the Site at all times.	Compliant	
54	Training	A Trained Person shall be available at all times during the hours of operation of this Site to carry out any activity required under this Certificate.	In compliance.	Compliant	
55	Complaint Response	Received complaints shall be responded to according to the following procedure: a) Notify the District Manager forthwith in writing; b) Record and number each complaint, include the nature of the complaint, odour or nuisance related, weather conditions, wind direction, time; c) Steps taken to determine & eliminate all possible causes of the complaint – a written reply shall be provided to the complainant within 3 days of the complaint; and, d) Written report to be completed and retained at the Site within 1 week of the complaint date outlining the information required above, actions taken to investigate the cause and resolve the complaint, recommendations for remedial measures, managerial or operational changes proposed and taken to reasonable avoid the recurrence of similar incidents.	No complaints have been received	Compliant	
56	Emergency Response Plan	The Owner shall submit to the District Manager a Spill Contingency and Emergency Response Plan for the Site a minimum of sixty (60) days prior to the acceptance of waste at the Site. The Spill contingency and Emergency Response Plan submitted must be acceptable to the local Municipality and the local Fire Department and shall be implemented prior to any waste being received at the Site.	A Spill Contingency Plan and Emergency Response Plan were submitted on March 12, 2007. The Plan contains the required information as outlined in the Certificate.	Compliant	
57	Emergency Response Plan	The Owner shall ensure that the Spill Contingency and Emergency Response Plan for the Site is reviewed annually and maintained current at all times.	Plasco Trail Road Inc. confirms that the Spill Contingency and Emergency Response Plan for the Site is reviewed annually and maintained current at all times.	Compliant	The Emergency Response Plan was updated November 10, 2009 and December 1, 2010. The Spill Prevention Plan is currently under revision to reflect proposed future operation, and process and equipment modifications at the facility.

TABLE 2.2 - Status of Compliance for the Plasco Demonstration Project with Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
58	Emergency Response Plan	The Spill Contingency and Emergency Response Plan shall be retained in a central location on the Site and shall be accessible to all staff at all times. The Owner shall ensure that the District Manager, the local Municipality and the Fire Department are notified of any changes to the Spill Contingency and Emergency Response Plan.	In compliance.	Compliant	
59	Emergency Response Plan	The equipment, materials and personnel requirements outlined in the Spill Contingency and Emergency Response Plan shall be immediately available on the Site at all times. The equipment shall be kept in a good state of repair and in a fully operational condition.	Plasco Trail Road Inc. confirms that the equipment, materials and personnel requirements are available on the Site at all times. The equipment is kept in a good state of repair and in a fully operational condition.	Compliant	
60	Emergency Response Plan	All staff that operates the Site shall be fully trained in the use of the Spill Contingency and Emergency Response Plan and in the procedures to be employed in the event of an emergency.	Plasco Trail Road Inc. confirms that all staff that operate the process on Site is fully trained in the use of the Spill Contingency and Emergency Response Plan and in the procedures to be employed in the event of an emergency.	Compliant	
61	Emergency Response Plan	The Owner shall immediately take all measures necessary to contain and clean up any spill or leak which may result from the operation of this Site and immediately implement the Spill Contingency and Emergency Response Plan, if required.	In compliance.	Compliant	Thirteen (13) spills occurred during the Demonstration Project. Five spills occurred during the semi-annual reporting period: a converter condensate spill on November 30, 2010; wastewater spills on December 7, 2010 and January 4, 2011; a treated water spill on December 13, 2010; and a process liquid spill on December 14, 2010.
62	Site Design and Operating Manual	The Design and Operating Manual shall be retained at the Site, kept up to date, and be available for inspection by Ministry staff. The Design and Operating Manual shall contain at minimum the information specified in the Ministry publication "Guide For Applying For Approval Of Waste Disposal Sites".	The Design and Operating Manual is retained at the Site; kept up to date; and is available for inspection by Ministry staff.	Compliant	
63	Site Design and Operating Manual	Changes to the Design and Operating Manual shall be submitted to the Director for approval.	In compliance. The last revision of the DOR was submitted to the Director on August 31, 2009.	Compliant	

TABLE 2.2 - Status of Compliance for the Plasco Demonstration Project with Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
64	Daily Log Book	<p>A log book or electronic file shall be maintained at the Site for a minimum of five years and shall include daily records of the following information (metric units):</p> <ul style="list-style-type: none"> a) Date; b) Types, amounts, sources of waste received at the Site; c) Waste refusals, amounts, reason for refusal and actions taken; d) Type and amounts of unprocessed and processed waste at the Site; e) Results of the sampling and analysis of the residual wastes generated at the Site; f) Amounts and destination of each type of waste shipped from the Site; g) Record of daily inspections required by this Certificate; h) Record of any spills or process upsets at the site, the nature of the spill or process upset and the action taken for the clean up or correction of the spill, the time and date of the spill or process upset, and for spills, the time that the Ministry and other persons were notified of the spill in fulfillment of the reporting requirements in the EPA; and, i) Signature of the person conducting the inspection and completing the report. 	Plasco Trail Road Inc. confirms that a log book and electronic files are maintained at the Site and include daily records of the required information.	Compliant	
65	Semi-Annual Progress Report	<p>The Owner shall prepare and provide to the Director and the District Manager a Semi-annual Progress Report for each six-month period after the Start-up Date describing how the operation of the Site complied with requirements of O. Reg. 254/06 and the terms and conditions of applicable Certificates of Approval. Each Semi-annual report shall be submitted within 2 months of the conclusion of the reporting period and shall include:</p> <ul style="list-style-type: none"> a) Purpose of the demonstration project; b) Executive summary; c) Statement as to compliance with the requirements of O. Reg. 254/06 and all Certificates of Approval; d) Detailed monthly and semi-annual summary of the information required by Condition 64 of this Certificate; e) Detailed monthly and semi-annual summary of the reporting requirements required within the Certificate of Approval (Air; f) Any environmental and operational problems, that caused or was likely to cause an adverse effect, encountered during the operation of the Site and during the facility inspections and any mitigative actions taken; g) Any changes to the Spill Contingency and Emergency Response Plan, the Design and Operating Report and the Closure Plan that have been approved by the Director since the last Semi-annual report; h) Any recommendations to minimize environmental impacts from the operations of the Site and to improve Site operations and monitoring programs; and, i) Summary of any complaints received and mitigative actions undertaken. 	Due to ongoing changes in operations at Plasco, Plasco Trail Road Inc. was unable to submit the first semi-annual report within 2 months of the conclusion period. The semi-annual report for the first six-month period contains all required information as specified in this Section and was submitted to the MOE on November 3, 2008. An Annual report was prepared and submitted to the Director and the District Manager on March 24, 2009.	Non-Compliant	The first semi-annual report was prepared and submitted to the District Manager on November 3, 2008. The second semi-annual report for the second half of the first year of operation was contained within the annual report, as agreed upon with the Ministry, and was submitted on March 24, 2009.

TABLE 2.2 - Status of Compliance for the Plasco Demonstration Project with Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
		<p>Revoked & replaced January 25, 2010: The Owner shall prepare and provide to the Director and the District Manager a progress report covering the six-month period ending with January 21, 2010, describing how the operation of the Site complied with requirements of O.Reg. 254/06 and the terms and condition of this Certificate and the Certification of Approval (Air) in the period. The progress report shall be submitted by March 31, 2010 and shall at a minimum include the following information:</p> <ul style="list-style-type: none"> a) Purpose of the demonstration project; b) Executive summary; c) Statement as to compliance with the requirements of O.Reg. 254/06 and the Conditions of the Certificate and the Certificate of Approval (Air) with the inspection and reporting requirements of the Conditions contained herein; d) Detailed monthly and semi-annual summary of the information required by Condition 64 of this Certificate; e) Detailed monthly and semi-annual summary of the reporting requirements required within the Certificate of Approval (Air); f) Any environmental and operational problems, that caused or was likely to cause an adverse effect encountered during the operation of the Site and during the facility inspections and any mitigative actions taken; g) Any changes to the Spill Contingency and Emergency Response Plan, the Design and Operating Report and the Closure Plan that have been approved by the Director since the last semi-annual report; h) Any recommendations to minimize environmental impacts from the operation of the Site and to improve Site operations and monitoring programs in this regard; and, i) Summary of any complaints received and mitigating actions undertaken. 	<p>The Semi-annual Report for the July 25, 2009 – January 21, 2010 reporting period was submitted to the Director and the District Manager and contained all the require information as specified in this Section.</p> <p>This final assessment report covers the operating period from August 1, 2010 – January 21, 2011. The report contains all the required information as specified in this Section.</p>	<p>Non-Compliant</p> <p>Compliant</p>	<p>The Semi-Annual Report for the July 25, 2009 – January 21, 2010 reporting period was submitted on April 5, 2010.</p>

TABLE 2.2 - Status of Compliance for the Plasco Demonstration Project with Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
66	Final Assessment Report	<p>The Owner shall prepare and provide to the Director and the District Manager a Final Assessment Report not less than three (3) months after the date in which waste is last processed at the Site as part of the Demonstration Project. The Final Assessment Report shall at a minimum include:</p> <ul style="list-style-type: none"> a) Purpose of the demonstration project; b) Executive Summary including a summary on the operation of the Demonstration Project; c) Detailed summary of the information contained within the Semi-annual Progress Reports required by Condition 65 of this Certificate; and, d) Detailed evaluation of the ability of the demonstration project to generate electricity using Municipal Waste as a fuel source. <p><u>Revoked & replaced January 25, 2010:</u> The Owner shall prepare and provide to the Director and the District Manager a Final Assessment Report not less than three (3) months after the date in which waste is last processed at the Site as part of the Demonstration Project. The Final Assessment Report shall at a minimum include:</p> <ul style="list-style-type: none"> a) Purpose of the demonstration project; b) Executive Summary including a summary on the operation of the Demonstration Project; c) Detailed summary of the information contained within the Semi-annual Progress Reports required by Condition 65 of this Certificate; and, d) Detailed evaluation of the ability of the demonstration project to generate electricity using Municipal Waste as a fuel source. 	This report covers the operating period of the Demonstration Project (January 24, 2008 – January 21, 2011).	Compliant	
67	Closure Plan	A Closure Plan shall be submitted to the Director for approval within ninety (90) days of the issuance of this Certificate with a copy to the District Manager. The Closure Plan must include at a minimum, a description of the work that will be done to facilitate closure of the Site and a schedule for completion of that work.	A Closure Plan was submitted to the District Manager for Plasco Trail Road Inc. on April 3, 2007 and contains the description of the work that will be done to facilitate closure of the Site and a schedule for completion of this work. This Closure Plan was submitted to the Ministry's Environmental Assessment and Approvals Branch for review.	Compliant	Closure Plan submission was delayed by 30 days.
68	Closure Plan	When the Owner ceases to receive, process and transfer waste at the Site in accordance with this Certificate, the Owner shall promptly close the Site in accordance with the approved Closure Plan.		Compliant	The letter sent to the MOE identified modifications to the Closure Plan, in light of Plasco's participation in the Environmental Screening process for the future operation of the Site. The modifications were acknowledged and accepted by the MOE, via email, on February 1, 2011.

TABLE 2.2 - Status of Compliance for the Plasco Demonstration Project with Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
69	Closure Plan	Within ten (10) days after closure of the Site, the Owner shall notify the Director, in writing, that the Site is closed and that the approved Closure Plan has been implemented.	The Director was notified in writing on January 31, 2011, that the approved Closure Plan had been implemented.	Compliant	The letter sent to the MOE identified modifications to the Closure Plan, in light of Plasco's participation in the Environmental Screening process for the future operation of the Site. The modifications were acknowledged and accepted by the MOE, via email, on February 1, 2011.

2.4 Status of Compliance with Certificate of Approval – Air No. 6925-6REN9E

The following section will demonstrate Plasco Trail Road Inc.'s compliance with the Certificate of Approval Air No. 6925-6REN9E issued on December 1, 2006, as amended, and with Certificate of Approval Air No. 7043-8A7KNZ issued on October 27, 2010, as amended, which revoked and replaced Certificate of Approval Air No. 6925-6REN9E.

In addition to the Certificates of Approval (Air), MOE issued five (5) temporary approvals to Plasco Trail Road Inc.:

1. One day approval – October 15th 2008;
2. Program Approval – December 1, 2008;
3. Program Approval – April 28, 2009;
4. Program Approval – October 27, 2009; and,
5. Program Approval – November 2, 2010.

The one day approval issued in October 2008 permitted the demonstration facility to reroute engine exhaust to the Flare on October 16th, 2008. Plasco was compliant with this one day approval.

The program approvals issued on December 1, 2008, April 28, 2009, October 27, 2009 and November 2, 2010 granted Plasco temporary operational and maximum emission limits for organic matter at the engines. The temporary emission limits granted Plasco the opportunity to effectively tune and assess the engines. The temporary emission limits in the November 2010 Program Approval granted Plasco the specific opportunity to conduct source testing at Engine 1 while the engine was exhausting to atmosphere. Plasco is compliant with the Program Approvals.

Table 2.3 outlines conditions as specified in the Certificates of Approval Air and the status of compliance for Plasco Trail Road Inc.

TABLE 2.3 - Status of Compliance for Plasco Demonstration Project with Certificates of Approval - Air No. 6925-REN9E and No. 7043-8A7KNZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
1	Notification of Start-up	The Company shall notify the Director and the District Manager in writing the Start-up date of the Facility no later than 15 days after that date.	Plasco Trail Road Inc. provided written notification to the Director and District Manager of the start-up date within the 15 day requirement, on or about January 24, 2008.	Compliant	MOE Officers were on site to observe MSW handling January 25, 2008.
2	Maximum Limits	The Company shall ensure that the Facility is designed and operated to comply, at all times, with prescribed performance requirements for NO _x , HCl, SO ₂ , PM, OM, Hg, Cd, Pb, and dioxins & furans at the engine and Flare stacks.	Plasco Trail Road Inc. designed and operates the Demonstration Project to comply with the required performance criteria outlined in Section 2 of this Certificate.	Compliant	
3	Maximum Limits	The Company shall not permit the granular activated carbon in either one of the Activated Carbon Filters to be Exhausted at any time during the operations of the Facility.	No activated carbon was exhausted at any time during the operation of the Demonstration Project.	Compliant	
4	Operation and Maintenance	<p>The Company shall:</p> <ol style="list-style-type: none"> 1) Prepare, before commencement of operations, and update as necessary, an O&M Manual for the Facility and Equipment, including: <ol style="list-style-type: none"> a) Routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the Equipment suppliers; b) Frequency of inspection of the scrubbers; c) Frequency of monitoring the emissions from the Activated Carbon Filters and criteria to replace the activated carbon in the Activated Carbon Filters; d) A staffing plan; e) Procedures for any record keeping activities relating to operation and maintenance of the Equipment; f) All appropriate measures to minimize noise, dust and odorous emissions from all potential sources; g) Complaint handling procedures; h) Contingency plans and emergency procedures; and, i) Closure plan. 2) Implement the recommendations of O&M Manual; 3) Manual made available for inspection by Ministry Staff; 4) Prepare, implement and update as necessary an Odour Control Plan; 5) Ensure funding, staffing, training of staff, process controls, quality assurance and quality control procedures are adequate to achieve compliance with this Certificate; 6) Ensure that equipment, material and spare parts are kept on hand and in good repair for immediate use in the event of: <ol style="list-style-type: none"> a) A breakdown of the Facility or any part of the Facility; b) Change in process parameters which may results in discharge into the natural environment of any contaminant in any amount, concentration or level in excess of that prescribed by the regulations; c) Any fire or explosion; and, d) Any other potential contingency. 	<ol style="list-style-type: none"> 1) Plasco Trail Road Inc. prepared an Operations Manual before commencement of operation of the Demonstration Project. The manual was released on December 12, 2007. Information included in the manual encompasses all listed requirements in this Section. 2) In compliance. 3) The O&M Manual is available for inspection at the Facility. 4) The Odour Control Plan was prepared and released on November 28, 2006. 5) The company is responsible for all funding, staffing and training of staff, process controls and quality assurance, to run the Facility under the best conditions possible and to achieve compliance with this certificate. 6) Plasco Trail Road Demonstration Project maintains equipment in good condition, kept in good repair, and immediately available in the event of any situation as listed in Section 4(6) of this Certificate. Maintenance Staff are trained in use of all equipment and in the methods to be used. 	<p>Compliant</p> <p>Compliant Compliant Compliant Compliant</p> <p>Compliant</p>	

TABLE 2.3 - Status of Compliance for Plasco Demonstration Project with Certificates of Approval - Air No. 6925-REN9E and No. 7043-8A7KNZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
		And that staff are trained in the use of equipment, material and space parts and in the methods and procedures to be employed upon the occurrence of such an event.			
5	Operation and Maintenance	The Company shall keep all doors in the Materials Handling Building of the Facility fully closed, except when being used for necessary personnel or vehicle entrance and exit, whenever there are wastes stored inside the building.	All doors in the Materials Handling Building of the Facility are fully closed, except when being used for necessary personnel or vehicle entrance and exit, whenever there are wastes stored inside the building.	Compliant	
6	Continuous Emission Monitoring	<ol style="list-style-type: none"> 1) The Company shall install and maintain operational a CEM System, before Start-up date of the Facility, to continuously monitor and record the temperature and the concentrations of CO, O₂, NO_x, HCl, SO₂ and OM in the undiluted flue gases leaving the Engine and Flare stacks. 2) The Company shall install and operate the CEM System in accordance with the above: <ol style="list-style-type: none"> a) When the power plant is not operated, from the undiluted flue gases leaving the Flare; b) When the power plant is operated and the Flare is put on standby, from the undiluted flue gases leaving the engines; c) When both the Flare and the power plant are operated, the discharge shall be monitored to provide a reading at a minimum of every 15 minutes as per Environment Canada Report EPS 1/PG/7. 	<ol style="list-style-type: none"> 1) Plasco Trail Road Inc. installed a continuous emission monitoring system (CEM system) to continuously monitor record and determine the concentration for the following contaminants in the undiluted flue gases leaving the reciprocating engines or the Flare: <ol style="list-style-type: none"> a) Temperature, oxygen on April 23, 2007; b) Carbon Monoxide on April 23, 2007; c) Oxygen on April 23, 2007; d) Nitrogen oxides on April 23, 2007; e) Hydrochloric acid on April 23, 2007; f) Sulphur dioxide on April 23, 2007; and, g) Organic matter. O.Reg. 254/06, s. 10 on April 23, 2007. 2) The Plasco system is compliant as per amendments incorporating a single Flare. 	Compliant	An additional channel was installed on the CEMS in February 2009. It was first calibrated on March 17, 2009.
	Source Testing	<ol style="list-style-type: none"> 3) Concentrations of mercury and particulate matter are to be continuously monitored by the CEMS if not source tested. 4) The Company shall perform Source Testing to determine the rates of emission of the Test Contaminants from the reciprocating engine sources and the Flare sources. The Source Testing shall be conducted at maximum rating or at the maximum load achievable at the time of testing. Each test set shall consist of three (3) separate tests for each contaminant to be tested. The Source Testing shall be conducted under different operating scenarios of the Facility as follows: <ol style="list-style-type: none"> a) Scenario 1: the feed to the Converter is all Municipal Waste; b) Scenario 2: the feed to the Converter is majority Municipal Waste with about 3 - 5% by weight of the feed High Carbon Waste consisting primarily of recycled plastic rejects; and, c) Scenario 3: the feed to the Converter is majority Municipal Waste with about 3 - 5% by weight of the feed High Carbon Waste consisting primarily of shredded tires. 	<ol style="list-style-type: none"> 3) Mercury and particulate matter concentrations are quantified by source test. 4) Due to ongoing changes in operations at the Plasco Trail Road Inc. demonstration plant, Plasco was unable to perform Source testing within the first year of commissioning of the project. 	Compliant	
				Non-Compliant	Plasco was unable to obtain shredded tires waste and determined that testing with tires was unnecessary. Plasco submitted an application for a CofA amendment to obviate this requirement. Amended Certificate of Approval – Air No. 7043-8A7KNZ was issued on October 27, 2010.

TABLE 2.3 - Status of Compliance for Plasco Demonstration Project with Certificates of Approval - Air No. 6925-REN9E and No. 7043-8A7KNZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
		<p><u>Revoked & replaced January 25, 2010:</u> The Company shall perform Source Testing to determine the rates of emission of carbon monoxide, oxygen, nitrogen oxides, hydrogen chloride, sulphur dioxide, organic matter and the Test Contaminants from the reciprocating engine stacks and the Flare stack. The Source Testing shall be conducted at maximum rating or at the maximum load achievable at the time of testing. Each test set shall consist of three (3) separate tests for each contaminant to be tested. The Source Testing shall be conducted under different operating scenarios of the Facility as follows:</p> <ul style="list-style-type: none"> a) Scenario 1: the feed to the Converter is all Municipal Waste; b) Scenario 2: the feed to the Converter is majority Municipal Waste with about 3 - 5% by weight of the feed High Carbon Waste consisting primarily of recycled plastic rejects; and, c) Scenario 3: the feed to the Converter is majority Municipal Waste with about 3 - 5% by weight of the feed High Carbon Waste consisting primarily of shredded tires. <p><u>Revoked & replaced by CofA No. 7043-8A7KNZ October 27, 2010:</u> The Company shall perform Source Testing to determine the rates of emission of carbon monoxide, oxygen, nitrogen oxides, hydrogen chloride, sulphur dioxide, organic matter and the Test Contaminants from the reciprocating engine stacks and the Flare stack. The Source Testing shall be conducted at maximum rating or at the maximum load achievable at the time of testing. Each test set shall consist of three (3) separate tests for each contaminant to be tested. The Source Testing shall be conducted under different operating scenarios of the Facility as follows:</p> <ul style="list-style-type: none"> a) Scenario 1: the feed to the Converter is all Municipal Waste; and, b) Scenario 2: the feed to the Converter is majority Municipal Waste with about 3 - 5% by weight of the feed High Carbon Waste consisting primarily of recycled plastic rejects. <p><u>Revoked & replaced November 26, 2010:</u> The Company shall perform Source Testing to determine the rates of emission of carbon monoxide, oxygen, nitrogen oxides, hydrogen chloride, sulphur dioxide, organic matter and the Test Contaminants from the Flare stack and a representative location in the ductwork after the SCO/SCR of Engine 1. The Source Testing shall be conducted at maximum rating or at the maximum load achievable at the time of testing. Each test set shall consist of three (3) separate tests for each contaminant to be tested. The Source Testing shall be conducted under different operating scenarios of the Facility as follows:</p> <ul style="list-style-type: none"> a) Scenario 1: the feed to the Converter is all Municipal Waste: <ul style="list-style-type: none"> i. At the Flare stack when the Flare is combusting on syngas and assist gas (propane) only, ii. At a representative location in the vertical exhaust ductwork after 	<p>Source testing was conducted at the Flare and the Engine 1 ductwork in December 2010 for Scenarios 1 & 2.</p>	<p>Non-Compliant</p> <p>Compliant</p>	<p>Source testing was conducted at the Flare and the Engine 3 reroute for Scenarios 1 & 2 in November 2009 and April/May 2010. MOE requested that Plasco perform additional Source Tests at the engine exhaust in a location that better reflects the accuracy of the emission profile. Additional source testing was conducted in December 2010.</p> <p>Source testing results are pending validation by the MOE.</p>

TABLE 2.3 - Status of Compliance for Plasco Demonstration Project with Certificates of Approval - Air No. 6925-REN9E and No. 7043-8A7KNZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
		<p>the SCO/SCR of Engine 1, when Engine 1 is at the maximum load achievable at the time of testing but not less than 350 kW, and</p> <p>iii. At the Flare stack when the Flare is combusting on syngas and assist gas (propane), and the exhaust of Engine 1 is routed to the Flare when Engine 1 is at the maximum load achievable at the time of testing but not less than 350 kW;</p> <p>b) Scenario 2: the feed to the Converter is majority Municipal Waste with about 3 - 5% by weight of the feed High Carbon Waste consisting primarily of recycled plastic rejects:</p> <p>i. At the Flare stack when the Flare is combusting on syngas and assist gas (propane) only,</p> <p>ii. At a representative location in the vertical exhaust ductwork after the SCO/SCR of Engine 1, when Engine 1 is at the maximum load achievable at the time of testing but not less than 350 kW, and</p> <p>iii. At the Flare stack when the Flare is combusting on syngas and assist gas (propane), and the exhaust of Engine 1 is routed to the Flare when Engine 1 is at the maximum load achievable at the time of testing but not less than 350 kW.</p> <p>The Company may require the construction of a temporary secondary by-pass for routing the exhaust of Engine 1 after SCO/SCR from the vertical exhaust ductwork to the enclosed Flare in order to conduct the Source Testing at the stack of Engine 1 after the SCO/SCR, and shall ensure that any existing connections from any other equipment or vessels at the site,</p> <p>5) The Company shall submit to the Manager, within one (1) month after the Start-up Date of the Facility, a test protocol, including the Pre-Test Information for the Source Testing required by the Source Testing Code. The Company shall finalize the test protocol in consultation with the Manager.</p> <p>6) The Company shall complete the Source Testing after the Manager has accepted the test protocol either in accordance with the following schedule or as directed or agreed by the District Manager:</p> <p>a) No later than three (3) months after the Start-up Date of the Facility, when all the discharge is through the Flare sources, for all the operating scenarios described in condition 6(4) above; and,</p> <p>b) No later than six (6) months after the Start-up Date of the Facility, when all the discharge is through the reciprocating engine stacks, for all the operating scenarios described in condition 6(4) above.</p> <p><u>Revoked & replaced October 27, 2009</u></p>	<p>5) Pre-Test Plans were submitted to the MOE in April 2009, July 2009 and November 2010.</p>	<p>Compliant</p>	

TABLE 2.3 - Status of Compliance for Plasco Demonstration Project with Certificates of Approval - Air No. 6925-REN9E and No. 7043-8A7KNZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
		<p><u>Revoked & replaced January 25, 2010:</u> The Company shall complete the Source Testing after the Manager has accepted the test protocol in accordance with the following schedule:</p> <ul style="list-style-type: none"> a) Not later than June 30, 2010, unless otherwise directed or agreed by the District Manager, when all the discharge is through the Flare stack, for all the operating scenarios described in condition 6(4) above; and, b) Not later than June 30, 2010, unless otherwise directed or agreed by the District Manager, when all the discharge is through the reciprocating engine stacks, for all operating scenarios described in condition 6(4) above. <p>7) The Company shall notify the Director, District Manager and the Manager in writing of the location, date and time of any impending Source Testing required by this Certificate, at least five (5) business days prior to the Source Testing.</p> <p>8) The Company shall prepare and submit interim and final reports on the Source Testing to the Director, District Manager and the Manager and:</p> <ul style="list-style-type: none"> a) Submit an interim report no later than 1 month after the Source Testing is complete, in the format described in the Source Testing Code, including the information outlined in Section 6(8) of this Certificate; b) Submit a final report within 3 months after the last test of the Source Testing is complete, in the format described in the Source Testing Code, including the information outlined in Section 6(8) of this Certificate; <p>9) The Director may not accept the results of Source Testing if:</p> <ul style="list-style-type: none"> 1) Consultation and acceptance of the Manager did not take place; 2) Source Testing Code or the requirements of the Manager, either during the pre-test consultation or during witnessing of the Source Testing, were not followed; 3) Company did not notify the Director, the District Manager and the Manager of the upcoming Source Testing; and, 4) Company failed to provide the reports on the Source Testing. <p>10) If the Director does not accept the results of the Source Testing, the Director may require the Company to repeat Source Testing.</p>	<p>6) Plasco Trail Road completed the source testing of Scenarios 1 and 2 at the Flare (November & December 2009, January 2010) and at the Engine 3 reroute (March, April & May 2010) for the prescribed substances as listed. Additional source testing of Scenarios 1 and 2 at the Flare and at the Engine 1 exhaust was conducted in December 2010.</p> <p>7) The Director, District Manager and the Manager were provided with the required notification. Due to the tight scheduling, expanded nature of the December 2010 source testing program and continued negotiations with the MOE, official source testing notification was delayed by one day and provided prior to having received Pre-Test Plan approval.</p> <p>8) Interim reports for the Flare Source Testing conducted in November & December 2009 and January 2010 were overdue. The interim reports for the December 2010 source testing at the Flare and Engine 1 were submitted, on time, on January 17, 2011.</p> <p>The 2009/2010 Flare Source Testing final reports for operating scenarios 1 and 2 were submitted to the MOE on April 12, 2010. The final reports for the December 2010 testing were submitted to the MOE on March 4, 2011.</p> <p>9) The MOE requested that source testing be conducted at a more representative and accurate location on the vertical engine stack.</p> <p>10) Plasco Trail Road Inc. confirms that additional Source Testing was conducted at the Flare and Engine 1 in December 2010.</p>	<p>Compliant</p> <p>Non-Compliant</p> <p>Non-compliant</p> <p>Compliant</p> <p>Compliant</p> <p>Compliant</p> <p>n/a</p> <p>n/a</p>	<p>Source testing was conducted at the Flare in November 2009 & January 2010 and at the Engine 3 reroute in April/May 2010.</p> <p>The MOE was officially notified on November 29, 2010 of the source testing program's December 2, 2010 scheduled start date, prior to receiving the Pre-Test Plan approval on November 30, 2010.</p> <p>Source testing was repeated in December 2010, in accordance with Certificate of Approval – Air No. 7043-8A7KNZ.</p>

TABLE 2.3 - Status of Compliance for Plasco Demonstration Project with Certificates of Approval - Air No. 6925-REN9E and No. 7043-8A7KNZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
7	Cessation of Discharges	<p>The Company shall implement the Cessation of Discharges Protocol when the concentration in the discharge of the facility calculated in accordance with Schedule A of this Certificate for:</p> <ol style="list-style-type: none"> 1) NOx exceeds the maximum limit set out in Schedule A for more than 1 hour; 2) Cadmium or Lead exceeds the maximum limit set out in Schedule A; 3) Mercury, if stack test results exceed the maximum limit set out in Schedule A, or if CEMS results exceed the maximum limit set out in Schedule A for more than 1 hour; 4) HCl, SO₂ or OM exceeds the operational limit set out in Schedule B for more than 1 hour; 5) Dioxins & furans exceeds the operational limit set out in Schedule B; or, 6) PM, if stack test results exceed the operational limit set out in Schedule B, or if CEMS results exceed the operational limit set out in Schedule B for more than 1 hour. 	Plasco Trail Road Inc. confirms that a declaration of Cessation of Discharges will be implemented should any of the situations listed in this Section of the Certificate occur at the Facility.	Compliant	<p>Six (6) Cessations of Discharge were declared during the 3 year Demonstration Project: three (3) for SO₂ at the Flare (July 2008, August 2009, & September 2009), two (2) for SO₂ at the engine (September 2009 & January 2010), and one (1) for NOx at the Flare (June 2009).</p> <p>No Cessation of Discharge was declared during the semi-annual reporting period.</p>
8	Cessation of Discharges	If the Cessation of Discharges Protocol is implemented, the Company shall within 24 hours after discharge from the Facility is resumed, initiate Source Testing for the contaminant the concentration of which was exceeded, when the emission of the contaminant is monitored by Source Testing.	No Cessation of discharge has been declared for a contaminant monitored by source testing.	n/a	

TABLE 2.3 - Status of Compliance for Plasco Demonstration Project with Certificates of Approval - Air No. 6925-REN9E and No. 7043-8A7KNZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
9	Reporting Requirements	<p>1) Monthly Engineer's Report: monthly progress report prepared in accordance with Condition 48 of CofA (Waste) and submitted to the District Manager within 5 business days after the end of each month. The monthly report shall include the information required in Condition 48 in the CofA (Waste) and:</p> <ul style="list-style-type: none"> a) Executive Summary; b) Average and maximum daily quantity and total quantity of MSW and HCF received and processed by the Facility in that month; c) Results of the CEMS system with a summary of the maximum concentration monitored and recorded for each contaminant in that month; d) Dates, times and results, if available, of any Source Testing if conducted in that month; and, e) Details of planned maintenance or failure of equipment in the Facility. <p>2) Non-Compliance Report: prepared and submitted to the District Manager immediately when the Company is aware of any non-compliance with O.Reg. 254/06 or any condition or requirement of this Certificate.</p> <p><u>Revoked & replaced January 25, 2010:</u></p> <p>Non-compliance report, prepared and submitted to the District Manager notifying the Ministry immediately when the Company is aware of any non-compliance with O.Reg. 254/06 or any condition or requirement of this Certificate, followed by submission within ten (10) business days after the notification and updated non-compliance report to include the result(s) of investigation into the cause(s) of the non-compliance and the remedial action(s) taken to address the cause(s) of the non-compliance.</p> <p>3) Semi-Annual Reports: prepared and submitted to the District Manager in accordance with Condition 63 of the CofA (Waste) for each six-month period after the Start-up Date of the Facility and the equipment in the Facility has been operated within that period, on how the operation of the Facility complied with requirements of O. Reg. 254/06 and the terms and conditions of the Certificate in that period.</p> <p>4) Final Assessment Report: prepared in accordance with Condition 64 in the CofA (Waste) and submitted to the Director and the District Manager not later than 3 months after waste is last processed at the Facility, including all the information required in Condition 48 in the CofA (Waste).</p>	<p>1) A Professional Engineer, Project Manager, Decommissioning Consulting Services (DCS) Ottawa, once every calendar month, performs the duties as required in this regulation under subsections 1(a), (b) and (c) at Plasco Trail Road Inc. The following monthly reports have been submitted for this semi-annual reporting period:</p> <ul style="list-style-type: none"> i. Operating Month of August 2010, submitted September 7, 2010; ii. Operating Month of September 2010, submitted October 12, 2010; iii. Operating Month of October 2010, submitted November 8, 2010; iv. Operating Month of November 2010, submitted December 7, 2010; v. Operating Month of December 2010, submitted January 7, 2011; and, vi. Operating Month of January 2011, submitted February 7, 2011. <p>2) In compliance</p> <p>Non-compliance report for NOx emission incident at Flare (November 8, 2010) was submitted within eleven (11) business days.</p> <p>3) This report describes how the Plasco Trail Road Inc. Demonstration Project complied during the last six months (August 1, 2010 – January 21, 2010) of operation with this Regulation and with any applicable Certificates that apply to the Demonstration Project.</p> <p>4) This report summarizes how the Plasco Trail Road Inc. Demonstration Project complied during the last 3 years (January 25, 2008 – January 21, 2011) of operation with this Regulation and with any applicable Certificates that applied to the Demonstration Project.</p>	<p>Compliant</p> <p>Compliant</p> <p>Non-compliant</p> <p>Compliant</p> <p>Compliant</p>	<p>Monthly Engineer's Reports were submitted to the MOE for each month of operation between January 25, 2008 and January 21, 2011.</p> <p>Specific events of non-compliance occurred due to process upsets and atypical control parameters during process testing events.</p> <p>Emission limits were exceeded for organic matter at the Flare on October 22, 27 & 29/30, 2010. Emission limits were exceeded for NOx at the Flare on November 8, 2010.</p>

TABLE 2.3 - Status of Compliance for Plasco Demonstration Project with Certificates of Approval - Air No. 6925-REN9E and No. 7043-8A7KNZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
10	Record Retention	<p>The Company shall retain in the Facility or another location approved by the Director of District Manager, for a period no less than 5 years from the date of their creation, all records relating to monitoring, performance, equipment maintenance, waste quality and quantity processed in the Facility, including but not limited to:</p> <ol style="list-style-type: none"> 1) All original records produced by the recording devices associated with the CEMS; 2) All records on the operation of the Facility, including the type and quantity of MSW and HCF received and processed in the Facility; 3) Results obtained during Source Testing; 4) All records related to inspection, repair and maintenance of the Facility and the Equipment; and, 5) All records of any environmental complaints, handled and recorded in accordance with Condition 53 of the CofA (Waste) <p>The Company shall make all records required by this Certificate available to staff of the Ministry for review upon request.</p>	<p>All of the above mentioned records of Plasco Trail Road Demonstration project are available on site to staff of the Ministry for review upon request.</p> <p>Plasco Trail Road Inc. confirms that all records and documents in accordance with revoked and replaced conditions are also available on site to staff of the Ministry for review upon request.</p>	Compliant	
11	Notification of Ministry	<p>The Company shall notify the District Manager, in writing, before the Start-Up Date of the Facility, as to whether the construction of the Facility has been carried out in accordance with this Certificate to a point of substantial completion.</p>	<p>The Company notified the District Manager, before the Start-up Date of the Facility that the construction of the Facility had been carried out in accordance with this Certificate to a point of substantial completion.</p>	Compliant	
12	Notification of Ministry	<p>The Company shall notify the District Manager, in writing, of each environmental complaint in accordance with Condition 53 of the CofA (Waste).</p>	<p>In the event of an environmental complaint the Company will notify the District Manager, in writing, in accordance with Condition 53 of the Certificate of Approval (Waste).</p>	Compliant	No complaints have been received.
ADDITIONAL TERMS AND CONDITIONS					
13	n/a	<p>The re-routing of the exhaust of the engine equipped with a catalytic converter to the enclosed Flare for further combustion shall expire six (6) months from October 23, 2008.</p> <p><u>Revoked & replaced by Condition 15 on October 24, 2008</u></p> <p><u>Revoked & replaced by CofA No. 7043-8A7KNZ on October 27, 2010:</u> The re-routing of the exhaust of the Engine 3 equipped with a catalytic converter to the enclosed Flare for further combustion shall expire on January 21, 2011.</p>	<p>In compliance.</p>	Compliant	

TABLE 2.3 - Status of Compliance for Plasco Demonstration Project with Certificates of Approval - Air No. 6925-REN9E and No. 7043-8A7KNZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
14	n/a	<p>The Company shall record the dates and times when the exhaust of the engine equipped with a catalytic converter flows through the catalytic converter, and the performance of the catalytic converter.</p> <p><u>Revoked & replaced by Condition 15 on October 24, 2008</u></p> <p><u>Revoked & replaced by CofA No. 7043-8A7KNZ October 27, 2010:</u> The Company shall record the dates and times when the exhaust of the engine equipped with a catalytic converter flows through the catalytic converter, and the performance of the catalytic converter.</p>	In compliance.	Compliant	
15	n/a	<p>The re-routing of the exhaust of the engine equipped with a catalytic converter to the enclosed Flare for further combustion shall expire six (6) months from October 24, 2008.</p> <p><u>Revoked & replaced April 29, 2009:</u> The re-routing of the exhaust of the engine equipped with a catalytic converter to the enclosed Flare for further combustion shall expire twelve (12) months from April 23, 2009.</p> <p><u>Revoked & replaced October 27, 2009:</u> The re-routing of the exhaust of the engine equipped with a catalytic converter to the enclosed Flare for further combustion shall expire on January 24, 2010.</p> <p><u>Revoked & replaced January 25, 2010:</u> The re-routing of the exhaust of the engine equipped with a catalytic converter to the enclosed Flare for further combustion shall expire on January 21, 2011.</p> <p><u>Revoked & replaced by CofA No. 7043-8A7KNZ October 27, 2010:</u> The Company shall submit to the Director, District Manager and Manager a report, with all supporting information, within six (6) weeks after January 25, 2010 on the accuracies of the measurements obtained by the CEM System.</p>	The RATA report for CEMS data collected at the Flare in January 2010 was submitted electronically to the MOE on March 8, 2010.	Compliant	
16	n/a	<p>The Company shall record the dates and times when the exhaust of the engine equipped with a catalytic converter flows through the catalytic converter, and the performance of the catalytic converter.</p> <p><u>Revoked & replaced by Condition 14 of CofA No. 7043-8A7KNZ October 27, 2010.</u></p>	No longer applicable.	n/a	

TABLE 2.3 - Status of Compliance for Plasco Demonstration Project with Certificates of Approval - Air No. 6925-REN9E and No. 7043-8A7KNZ, as Amended

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
17	n/a	<p>The Company shall submit to the Director, District Manager and Manager a report, with all supporting information, within six (6) weeks after the issuance of the Notice No. 10 (January 25, 2010) on the accuracies of the measurements obtained by the CEM System.</p> <p><u>Revoked & replaced by Condition 15 of CofA No. 7043-8A7KNZ October 27, 2010.</u></p>	No longer applicable.	n/a	

2.5 Status of Compliance with Certificate of Approval – Air No. 4152-84KLK5

The following section will demonstrate Plasco Trail Road Inc.'s compliance with the Certificate of Approval Air No. 4152-84KLK5 issued on May 28, 2010.

The thermal test unit was commissioned during the semi-annual reporting period.

Table 2.4 outlines conditions as specified in the Certificate of Approval Air and the status of compliance for Plasco Trail Road Inc.

TABLE 2.4 - Status of Compliance for Plasco Demonstration Project with Certificate of Approval - Air No. 4152-84KLK5

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
1	General	<p>The Company shall ensure that the Equipment is properly operated and maintained at all times. The Company shall:</p> <ol style="list-style-type: none"> 1) Prepare before commencement of operation of the Equipment, and updated, as necessary, a manual outlining the operating procedures and a maintenance program for the Equipment, including: <ol style="list-style-type: none"> a) Routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the Equipment suppliers; b) Emergency procedures; c) Procedures for any record keeping activities relating to operation and maintenance of the Equipment; and, d) All appropriate measures to minimize noise, dust and odorous emissions from all potential sources. 2) Implement the recommendations of the manual; and, 3) Retain, for a minimum of 2 years for the date of their creation, all records on the maintenance, repair and inspection of the Equipment, and make these records available for review by the MOE upon request. 	In compliance	Compliant	
2	General	<p>The Company shall notify the District Manager the date of commencement and the date of completion of the tests on the Equipment, within 5 days after the respective dates.</p>	<p>Notification of the date of commencement of the tests on the Equipment was not issued within 5 days. The District office was notified on December 12, 2010 that the equipment testing had commenced on November 6, 2010.</p> <p>The District office was notified on January 20, 2011 that Equipment testing had been completed on January 20, 2011.</p>	<p>Non-compliant</p> <p>Compliant</p>	<p>Notification of date of commencement was delayed.</p>
3	General	<p>The Company shall prepare and submit a report to the District Manager on the tests conducted on the Equipment, within 3 months after the date of completion of the tests. The report shall include, as a minimum, the following:</p> <ol style="list-style-type: none"> i. Date of commencement and the date of completion of the tests on the Equipment; ii. Summary of the tests conducted and test results obtained; and, iii. Conclusions such as successes and failures drawn from the test results and recommended follow-up actions. 	The assessment report is currently under review and is due April 20, 2011.	n/a	The report is due on April 20, 2011.

3 ENVIRONMENTAL AND OPERATIONAL RECORDS

3.1 Plasco Trail Road Waste Flows

Plasco Trail Road receives City of Ottawa (City) curbside municipal solid waste (MSW) and plastics unsuitable for recycling as additional high carbon feed (HCF) that would otherwise be disposed of at the City Trail Road Landfill as feed for the Plasco conversion process. This section of the report details the types and amounts of waste processed at the Plasco Trail Road facility in accordance with Condition 64 of Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ, Condition 10(2) of Certificate of Approval – Air No. 6925-6REN9E, and Condition 10(2) of Certificate of Approval – Air No. 7043-8A7KNZ.

3.1.1 Feed Waste

Plasco Trail Road first received municipal solid waste (MSW) on January 24, 2008. To date, the facility has received 12,094 tonnes of MSW and 183 tonnes of HCF and processed 6,634 tonnes of MSW and 158 tonnes of HCF. During this reporting period, Plasco Trail Road successfully processed 21% of the cumulative processed MSW amount, which results in a 67% increase in throughput from the previous period. Processed waste data for the facility is presented in Table 3.1. Monthly waste data for the semi-annual reporting period is summarized in Table 3.2. Monthly waste data for the entire Demonstration Project and detailed daily MSW and HCF data for the semi-annual reporting period are tabulated in Appendix I.

TABLE 3.1 - Plasco Trail Road Feed Waste Summary

Reporting Period	Received Waste		Processed Waste		Returned Waste		Refused Waste	
	MSW (tonnes)	HCF (tonnes)	MSW (tonnes)	HCF (tonnes)	MSW (tonnes)	HCF (tonnes)	MSW (tonnes)	HCF (tonnes)
2008	3105	60	1425	37	1681	0	0	0
2009	4575	100	2751	106	1769	0	0	0
2010	4414	23	2459	16	1956	9	10	0
2011 YTD¹	0	0	0	0	0	19	0	0
Reporting Period Aug 1, 2010 – Jan 31, 2011	2232	23	1433	6	800	27	10	0

¹ YTD ending Jan 31, 2011

TABLE 3.2 - Plasco Trail Road Monthly Feed Waste Summary

Month	Number of Days			Average Daily				Maximum Daily				Total Monthly			
	Business (days)	MSW Received (days)	MSW Processed (days)	MSW Received (tonnes)	MSW Processed (tonnes)	HCF Received (tonnes)	HCF Processed (tonnes)	MSW Received (tonnes)	MSW Processed (tonnes)	HCF Received (tonnes)	HCF Processed (tonnes)	MSW Received (tonnes)	MSW Processed (tonnes)	HCF Received (tonnes)	HCF Processed (tonnes)
Limit								75			10				
August 2010	21	3	3	51	29	-	0.16	62	33	-	0.48	153	88	-	0.48
September 2010	20	0	0	0	0	11.4	-	0	0	11.4	-	0	0	11.4	-
October 2010	20	11	12	50	29	11.4	-	83	56	11.4	-	548	350	11.4	
November 2010	20	17	16	62	44	-	-	104	64	-	-	1057	712	-	
December 2010	19	8	12	59	22	-	0.6	94	30	-	0.80	475	283	-	5.0
January 2011	19	10	0	0	0	-	-	0	0	-	-	0	0	-	-

During the past three years of operation, Plasco Trail Road remained in compliance with Condition 30 of Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ, as amended; the maximum daily amount of MSW processed was 64 tonnes in November 2010 and the maximum daily amount of HCF processed was 8 tonnes in June 2008. Received waste was processed within the MSW storage limit timeframes with the exception of two (2) incidents: January 2009 and November 2010. Unprocessed waste was returned to the Trail Road Landfill as per Condition 43, as amended.

During the semi-annual reporting period, Plasco Trail Road remained in compliance with Condition 30 of Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ; the maximum daily amount of MSW processed was 64 tonnes in November 2010 and the maximum daily amount of HCF processed was 0.8 tonnes in December 2010. Received waste was processed within 96 hours during the semi-annual period with the exception of one incident in November 2010. Unprocessed waste was returned to the Trail Road Landfill as per Condition 43, as amended, within the 72 hour limit during operational downtimes or due to the approach of the maximum MSW storage limit.

3.1.2 Residual Waste

The Plasco conversion process at the Trail Road Demonstration Facility produces several types of residual waste. Two types of ash are created as part of the process: converter ash and bag house ash. Converter ash is produced when the Carbon Recovery Vessel (CRV) is not operating. The material is non-hazardous and sent to the Trail Road Landfill for disposal. Bag house ash is disposed of as hazardous waste via a licensed carrier through the MOE's Hazardous Waste Information Network (HWIN) program. A third residual, Slag, also created during the process, is an inert vitrified solid and is disposed of at the Trail Road Landfill. Quarterly TCLP (Toxicity Characteristic Leaching Procedure) samples are collected for these materials to ensure compliance with respective disposal facility waste acceptance criteria.

Process wastewater is treated onsite to meet the City of Ottawa Sewer Use Bylaw standards and trucked by batch to the City's R.O. Pickard Environmental Centre (ROPEC) for disposal.

Additional miscellaneous hazardous wastes generated as part of standard operations include waste oils, lubricants and process chemicals. A summary of residual waste shipments for the semi-annual reporting period is presented in Table 3.3. It should be noted that the amounts reported for site waste include discarded refractory. Toxicity sample results for residual wastes are presented in Appendix II. The amounts of residual waste and hazardous wastes generated at the Plasco Trail Road Facility during both the entire demonstration period and the semi-annual period are summarized in Appendix III.

TABLE 3.3 - Plasco Trail Road Residual Waste Summary

Waste Description	Physical State	Units	Disposal Quantity		Disposal Site
			(2008 – 2011)	(Aug 2010 – Jan 2011)	
Converter Ash	Solid	Tonnes	2,348	601	Trail Road Landfill
Bag house Ash	Solid	Tonnes	515	185	Designated Landfill
Site Waste	Solid	Tonnes	535	334	Trail Road Landfill
Slag	Solid	Tonnes	373	66	Trail Road Landfill
Treated Wastewater	Liquid	Litres	10,931,000	3,255,000	ROPEC

3.2 Plasco Trail Road In-House Site Inspections

The Plasco Trail Road Facility is inspected daily by the operators, in accordance with Condition 47 of Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ and Condition 10(4) of Certificates of Approval – Air No. 6925-6REN9E and No. 7043-8A7KNZ. These observations are documented as part of the daily shift rounds (twice per day) and operations rounds (6 times per day) checklists. Maintenance, inventory and housekeeping details are noted and addressed. Summaries of the in-house site inspections have been included in previously issued annual and semi-annual reports. Noteworthy items during the last semi-annual period are summarized below.

August 2010

Maintenance items noted include service required for dew point gauge on torch air compressor, Engine 3 in emergency mode, Syngas blower down for maintenance and HCl scrubber packing removal. The system was shut down for two weeks in late August.

September 2010

Maintenance items noted include removal of syngas blower, service required on instrument air compressor and replacement required of eye wash station. Inventory was taking place in MSW building.

October 2010

Maintenance items noted include replacement required for blower pressure gauge, service conducted on instrument air compressor leaking oil, repaired leak on nitrogen skid, high pressure fault on the cooling water system basket strainer, observed foam in the sight glass in the east compressor for the chiller and an auxiliary fault on Kohler diesel backup generator.

November 2010

Maintenance items noted include repaired an air compressor oil leak, replaced the HCl system SHE 1 water outlet pressure gauge, repaired the MSW sump pump, replaced USB eyewash stations and repaired a leak in MSW sewer hose. The SHE1 Inlet pressure gauge required maintenance. Faulty USB sump controls required the system to be run in manual mode. A rental air compressor was required for instrument air.

December 2010

Maintenance items noted include a faulty SHE1 outlet temperature gauge, refilling required for eyewash stations, service required on the Torch Air compressor and an error maintenance light on CEMS. A rental air compressor was still being used form instrument air.

January 2011

Maintenance items noted include a faulty suction temperature gauge on the venturi scrubber, leaking eyewash stations and required servicing of the USB centre sump pumps, the instrument air compressor condensate blow down system and the nitrogen bypass valve. The site was not running and removal of equipment is ongoing.

3.3 Plasco Trail Road Spills and Process Upsets

Plasco Trail Road (PTR) documented and reported to the MOE thirteen (13) spills and twenty-nine (29) separate emission incidents during the 3 year Demonstration project, in accordance with Condition 61 of Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ and Condition 9(2) of Certificates of Approval – Air No. 6925-6REN9E and No. 7043-8A7KNZ.

During the semi-annual reporting period, Plasco Trail Road has documented and reported to the MOE five (5) spills and four (4) emission non-compliance incidents, in accordance with Condition 61 of Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ and Condition 9(2) of Certificates of Approval – Air No. 6925-6REN9E and No. 7043-8A7KNZ.

3.3.1 Spill Incidents

PTR has safeguards in place to prevent the occurrence of spills onsite. These control methods include, but are not limited to secondary containment for all liquid storage tanks, physical barriers to protect tanks from vehicular traffic, level monitoring devices, and tank overflow drains. A site spill plan is also in effect to mitigate the impact of spills on the natural environment.

A total of thirteen (13) spills occurred in the facility's three years of operation. Spills occurred due to damage or failure of process liquid pipes, water and waste water piping, valves and fittings, unusual events created by equipment commissioning, improper tank filling, or improperly sealed enclosures. All

spills were reported to the MOE Spills Action Centre. Spill reports were forwarded to the MOE Ottawa District office and include the volume of the spill, the type of spill fluid, mitigation steps taken and provisions to avoid similar events in the future. The spill incidents that occurred during the last semi-annual period are detailed below.

Semi-Annual Reporting period (August 2010 – January 2011)

November 30, 2010 – Converter Condensate Spill

A small volume of converter condensate (<50L) was spilled on November 30, 2010. The plant was preheating for a run starting on December 1st. As the converter heated, the heat volatilized MSW residue left inside the vessel after the last run. Excess rainwater caused saturated water vapour in the converter to condense on the ram enclosure walls. The condensed liquid dripped onto the raft slab and was carried toward the storm water ditch by the rain. The runoff was bermed, sanded and saw dusted to slow the progress of the condensate towards the ditch. The berm, sand and saw dust were removed after the rain and packaged for controlled disposal. No liquid was discharged from the site.

The storm water ditch was frozen over for the winter. Samples will be taken of the ditch in the spring and any impacted soil will be removed.

December 7, 2010 – Waste Water Spill

On December 7th and 8th, 2010 a total of approximately 59 m³ of treated waste water overflowed the water holding tanks. Treated water tank (NA) was full of treated water labelled as Batch 102. This tank has a 70 m³ capacity and contained approximately 66.2 m³, therefore 3.8 m³ of storage space remained in the tank. When the contents of this tank had been processed, the main inlet valve was inadvertently left open. The waste water plant was put into operation with the intention to process water into tank NC. The open isolation valve to NA allowed water to fill tank NA in addition to NC. Overflowing water from Tank NA was noted during nightly rounds. Tank NA was immediately isolated. Samples were taken of the water in the tank to determine spill water quality. The fill line to tank NC was opened to transfer part of tank NA to NC. The transfer valve from tank NA to NC was inadvertently left open after the transfer due to critical operational support required at another area of the plant at that time. Recirculation pumps for NA were turned on to recirculate the addition of chemical oxidant. The treated water was drawn from NA; part of it recirculated back to NA, and the other part was accidentally transferred into NC through the open transfer valve. NC was discovered to be overflowing on nightly rounds. Recirculation was stopped, and NC was isolated. Tank NA was nearly empty.

The area surrounding the treated water storage tank was inspected. No obvious signs of water entering the ditch were found. Water is thought to have mixed with the snow and frozen on the ground in the area immediately surrounding the tank. The ditch will have liquid and solid samples taken in the spring. Appropriate actions will be taken if necessary. No water was discharged from the site.

December 13, 2010 – Treated Water Spill

Batch 103 was pumping into a transport truck for disposal on December 13, 2010 via a non-routine pumping arrangement of a rental gas powered pump and rental flex hose. This temporary set up was required to decant clean water from the residual precipitate located at the bottom of the treated water tank. The level in the tank, pump and hoses were being monitored every 15 minutes. One of the operators making his rounds found that the transfer hose had partially slipped out of the filling hatch and water was leaking out of a slit in the side of the hose. The pump is rated at a maximum of 400 L per minute, however, most of the flow was still directed into the filling tank. Only a small portion of that flow leaked out through a hole in the side of the hose (~500 L). The spill continued for a maximum of 15 minutes between rounds before being corrected. The hose was re-inserted further into the tank and filling was completed with no further incident. Impacted snow was sent for controlled disposal. No water was discharged from the site.

December 14, 2010 – Process Liquid Spill

A faulty union fitting failed during operations and spilled < 2m³ of process water onto the raft slab. This fitting is located on the recirculation piping between the venturi scrubber and the pumps. The drop in level in the venturi separator caused the recirculation pumps to automatically stop on low level in the vessel. The failed fitting was isolated and repaired. All the water was contained and froze on the snow on the concrete raft slab. Temperatures in Ottawa were -12C at the time of the spill. The frozen water and snow were scraped up and put in the Ash building for melting and storage in the sump pit. No water was discharged from the site.

January 4, 2011 – Waste Water Spill

A faulty elbow fitting failed causing a maximum of 684 litres of untreated water to leak onto the gravel path between the MSW and Administration buildings. The pumps at the Wastewater Storage Tank were shutoff to halt the water transfer. All the water was contained, and froze with the snow on the gravel path and paved road surface. The temperature in Ottawa was -4°C at the time of the spill. The frozen water and snow were scraped up and put in the Ash building for melting and storage in the sump pit. Unfrozen, impacted gravel was removed for controlled disposal and replaced with clean aggregate. No water was discharged from the site.

3.3.2 Emission Incidents

A total of twenty-nine (29) emission incidents occurred at the Plasco Trail Road facility over the 3 years of operation during the Demonstration Project: twenty-three (23) at the Flare and six (6) at the engines. Four (4) of those emission incidents can be attributed to erroneous CEMS data flagging. Three of those four incidents occurred when syngas was not being produced.

Concentrations of SO₂ exceeded the operational emission limit at the Flare on two (2) separate occasions during the 3 years of operation. Concentrations of SO₂ approached the operational emission limit at the Flare on one (1) occasion. One exceedance was caused by an unplanned exothermic reaction in the sulphur impregnated carbon contained in the carbon bed in July 2008. This caused a sudden release of the sulphur contained in the bed. The remaining two SO₂ incidents were caused by the failure of a caustic injection system in the wet scrubber.

Concentrations of NO_x exceeded the maximum emission limit at the Flare on two (2) separate occasions over 3 years of operation as a result of excess oxygen in the Flare exhaust and of switching off engine flow to the Flare, causing a fast uncontrollable spike in NO_x concentrations.

Concentrations of Organic Matter exceeded the maximum emission limit at the Flare on eighteen (18) separate occasions. These incidents were caused by issues with the control of Flare parameters, i.e. sufficient assist gas flow, faulty igniters, Flare trip, etc. Three (3) of the organic matter incidents at the Flare occurred while the system was shut down, or during start-up activities prior to the production of syngas.

Concentrations of SO₂ approached the operational emission limit at the engine on one (1) occasion and exceeded the operational emission limit at the engine on one (1) occasion. The causes were a failure in the caustic injection system in the wet scrubber and suspected non-methane hydrocarbon interference in the CEM system, respectively.

Concentrations of NO_x exceeded the maximum emission limit at the engine on three (3) separate occasions during the 3 years of the Demonstration Project. All incidents occurred during tuning activities of the Leanox Controller” which is designed to minimize NO_x emissions at the engines.

The DCS reported concentrations of Organic Matter in exceedance of maximum emission limits at the engine on one (1) occasion as a result of erroneous data flagging by the CEMS.

Six (6) Cessations of Discharge were declared during the Demonstration Project. Four of the six declarations were made in advance of exceeding the emission limit for more than one hour. Three (3) Cessations of Discharge for SO₂ at the Flare were declared (July 2008, August 2009 and September 2009). One (1) Cessation of Discharge for NO_x at the Flare was declared in June 2009. Two (2) Cessations of Discharge for SO₂ at the engine were declared (September 2009 and January 2010).

Specific emission incidents that occurred during the last semi-annual period are detailed below.

Semi-Annual Reporting Period (August 2010 – January 2011)

Concentrations of organic matter exceeded the maximum limit at the Flare on October 22, 2010 as a result of testing the Flare's capacity to control bypassed engine exhaust from two (2) engines simultaneously. Process optimization steps were being taken to determine the maximum possible loading of engine exhaust to the Flare. Steady state operations were achieved running Engine 1 at 675 kW and Engine 3 at 350 kW. An attempt was made to increase Engine 3 to 450 kW and as a result, the additional engine exhaust flow to the Flare caused the Flare temperature to drop below set point, triggering the temperature control valve to open (propane supply to increase). Temperature could not be maintained at the Flare and organic matter concentrations increased. The system was given a few minutes to stabilize; however, once the 1-minute average organic matter concentration exceeded the operational limit (75 ppm), Engine 3 was reduced back to 350 kW. Flare temperature immediately began to increase and organic matter concentrations began to decrease. Unfortunately, six 1-minute averages above 100 ppm organic matter caused the 10-minute rolling average to exceed the maximum limit by 0.56 ppm for 1 minute.

The DCS reported an organic matter exceedance of the regulated 10 minute rolling average maximum emission limit at the Flare on October 27, 2010 while operations at the Plasco Trail Road facility were shutdown. Flawed control logic at the DCS caused the CEMS flag at the Flare to become active during calibration of the syngas analyzer. Calibration gases injected into the analyzer registered a lower heating value (LHV) above the flag permissive value, fooling the system into believing the process was online. In actuality, Plasco Trail Road was NOT producing syngas during the reported exceedance of the maximum limit for organic matter at the Flare on October 27, 2010. A manual 'Maintenance/Calibration' button has been implemented at the syngas analyzer to prevent the calibration gas LHV triggering the CEMS flag in the future.

The DCS reported an organic matter exceedance of the regulated 10-minute rolling average maximum emission limit at the Flare on October 29, 2010 while operations at the Plasco Trail Road facility were shutdown for recovery. The detection of propane and partially combusted gases combined with a low oxygen concentration caused the analyzer to register a lower heating value (LHV) above the flag permissive value, fooling the system into believing the process was online. In actuality, Plasco Trail Road was NOT producing syngas during the reported exceedance of the maximum limit for organic matter at the Flare on October 29, 2010. The high registered value was carried over in the 10-minute rolling average upon start-up on October 30, 2010.

Concentrations of NO_x exceeded the regulated 24-hour rolling average maximum emission limit at the Flare on November 8, 2010, for one 1-hour period, as a result of discharging the engine exhaust to the atmosphere and not receiving the added benefit of lasting reactions with residual urea carried in the engine exhaust stream. On November 8, 2010, Scenario 1 source testing at the engine exhaust stack was scheduled to commence. Source testing was to be conducted at the Engine 1 vertical exhaust stack,

discharging directly to atmosphere under a Program Approval for increased organic matter concentrations. The effect on the Flare was as follows:

1. Fuel-rich syngas flow to the Flare was reduced;
2. No low LHV engine exhaust flow to the Flare;
3. No required increase in propane; and,
4. No benefit from residual SCR reactions or dilution for NOx.

During preliminary source testing measurements, the Engine 1 exhaust was discharged to atmosphere through the vertical stack. NOx concentrations at the Flare increased. The 1-hr NOx average concentration at the Flare for the hour when engine exhaust was discharged to atmosphere was 157.33 ppm. Upon registering this value, source testing was suspended and the engine exhaust was routed to the Flare to reduce NOx emissions. 1-minute NOx average concentrations immediately dropped below 100 ppm. Unfortunately, the previously high 1-hour concentration caused the 24-hr rolling average NOx concentration to exceed the limit at 110.09 ppm for the hour from 15:00-16:00.

No Cessations of Discharge were declared in the last semi-annual period.

Incident reports were prepared and submitted to the MOE for each non-compliance event noted above. Additionally, these events have been reported on Plasco's www.zerowasteottawa.com public website.

3.4 Plasco Trail Road Emissions

3.4.1 Continuous Emissions Monitoring System

Schedule E of Certificates of Approval – Air No. 6925-6REN9E and No. 7043-8A7KNZ outlines the required specifications of the Plasco Trail Road CEM System, including installation, performance, calibration, data recording and reliability. This section details the operations and performance of the CEMS equipment.

CEMS Equipment

Plasco Trail Road is required to continuously monitor and record the temperature, and the concentrations of carbon monoxide, oxygen, nitrogen oxides, hydrogen chloride, sulphur dioxide and organic matter in the undiluted flue gases leaving the reciprocating engines stacks and the Flare stack.

Emissions are continuously measured by a SICK|MAIHAK model MCS100E HW (Hot/Wet) Gas Analyzer which uses IR for NO, NO₂, CO₂, CO, SO₂, HCl, CH₄ and H₂O. THC is measured by FID. O₂ is measured by an electrochemical cell.

A gas sample is continuously extracted through a heated sample line and a corrosion-resistant probe and filtered for the removal of all particulate matter greater than 2 μ m (removal efficiency of 99.99%). During transport, the sample is regulated to a constant temperature, well above the dew-point, using temperature sensors in a heated Teflon tube bundle. The sample enters the CEMS distribution manifold located in the CEMS enclosure for analysis by the SICK|MAIHAK MCS100E HW Analyzer. The CEMS enclosure is fitted with the gas analyzer, and all the equipment necessary to obtain an accurate analysis of the gas concentrations such as sample pump, valves, flow meters, and auxiliary equipment for sample and calibration gas control, circuit breakers, control/alarm panel, temperature controllers, relays and terminal block.

The Hot/Wet capability prevents wash-out of water-soluble sample components (i.e. NO₂, HCl, SO₂), as is typical for the sample conditioners required in cold/dry systems.

The SICK|MAIHAK CEMS gas analyzer is capable of measuring gas from the engines or gas from the Flare by alternating between both sources. A manual switch selects the mode of sampling. Gas samples are drawn via a 100 meter sampling line to the Flare and a 67 meter sampling line to the engine. When alternate samples are drawn, 6 minutes of sampling is used at each source, where the first 3 minutes of data is discarded as pre-measurement and the last 3 minutes are stored to generate average measuring valid value points.

CEMS Calibration

Schedule E of Certificates of Approval – Air No. 6925-6REN9E and No. 7043-8A7KNZ requires daily calibration drift checks on the monitor to be performed and recorded in accordance with the requirements of Report EPS 1/PG/7. Calibration can be set through the Flare probe or engine probe. A direct feed into the analyzer calibration is also available. Table 3.4 outlines the calibration gases used and the certification level associated with those gases.

Three (3) Cylinder Gas Audits (CGA) and system response tests were conducted during the first year of operation and the results were within manufacturer specifications for this equipment. Performance parameters and specifications are outlined in Schedule E of the Certificate of Approval. Performance and reliability testing on the Plasco Trail Road CEMS is routinely performed. Additional CGA and System Response (T90) Tests were performed and passed on May 11, 2010.

TABLE 3.4 - Calibration Gases

Gas	Concentration	Certification
Propane	60 ppm Balance N2	Protocol One
Mixed Cal Gas	45 ppm SO ₂ , 130 ppm NO, 1800 ppm CO Balance N2	Protocol One
Hydrogen Chloride	30 ppm HCl Balance N2	Certified
Carbon Dioxide/Oxygen/Methane	15 %/2.1%/220 ppm Balance N2	Certified
Nitrogen	99.999% N2	Certified

The calibration of the CEMS allows the following measuring ranges to be established:

TABLE 3.5 - CEMS Full Scale Ranges

Gas	Measureable Range
OM	0 – 200 ppm
SO ₂	0 – 50 ppm
NOx	0 – 150 ppm
HCl	0 – 36 ppm
CO	0 – 0.2 vol %
CO ₂	0 – 20 vol %
O ₂	0 – 25 vol%

[CEMS Data Logging](#)

Schedule E of Certificates of Approval – Air No. 6925-6REN9E and No. 7043-8A7KNZ requires that the data recorder be capable of registering continuously the measurement of the monitor with an accuracy of 0.5 percent of a full scale reading or better and with a time resolution of 2 minutes or better.

CEMSView software which runs on a dedicated Data Acquisition System PC computer is used to retrieve process data directly from the instruments via serial or serial/Ethernet communications ports.

The software provides graphical displays representing instantaneous values, 1 and/or 6-minute averages, 1-hour averages and 720-hour data.

All process values are automatically archived to the hard disk and DVD±RW in database format. The software is configured to automatically log data and print reports based on Environment Canada's EPS 1/PG/7 and user-defined reporting requirements. The raw input data cannot be altered.

Operators have the ability to instantaneously create and print reports containing data averages, limit exceedances, and availability over any specified time period. Both automated and user-defined reports can be stored on the hard drive.

All events, such as calibrations, malfunctions, exceedances, and maintenance and plant shut-downs are capable of being "flagged" with operator notations.

The CEMView DAS incorporates a 3.2 GHz Dell PC including 1024 MB RAM, 2x 160 GB hard drives. Reliable operation of the DAS computer is ensured by the RAID 1 (mirrored) drive array, which provides a continuous on-line backup. In addition, access capability via Internet or modem allows for remote diagnosis of the MCS100E HW analyzer and CEMView DAS on a 24/7 basis.

CEMS Monitoring Results

CEMS results are reported monthly in the Monthly Engineer's Report. In addition, Flare and engine CEMS data is reported on a weekly basis to the www.zerowasteottawa.com website.

A single engine ran to atmosphere for one hour and 2 minutes during the semi-annual reporting period (November 2010). Two engines ran simultaneously for a total of 35 minutes and individually for a total of 374 hours during the semi-annual reporting period with the exhausts piped to the Flare to permit continuous operation. Emissions are monitored at the Flare rather than at the engine when the engine exhausts are directed to the Flare. The monthly data is summarized in Table 3.6. A summary of the weekly CEMS data is included in Appendix IV.

Emissions from the Plasco Trail Road Flare and engines during the Demonstration Project remained below the operational and maximum limits set out in O.Reg 254/06 and Certificate of Approval Air No. 6925-6REN9E and No. 7043-8A7KNZ, for all compounds with the exception of organic matter, SO₂ and NO_x. A series of Program Approvals set out operational and maximum limits for organic matter emissions at the engines. Eighteen (18) organic matter incidents, three (3) SO₂ incidents and two (2) NO_x incidents occurred at the Flare over 3 years of operation. One (1) organic matter incident, two (2) SO₂ incidents and three (3) NO_x incidents occurred at the engines over the Demonstration Period. Additional details are included in Section 3.3 and in previously issued semi-annual reports.

Emissions from the Plasco Trail Road Flare during the semi-annual reporting period remained below the operational and maximum limits set out in O.Reg 254/06 and Certificates of Approval Air No. 6925-6REN9E and No. 7043-8A7KNZ, for all compounds with the exception of organic matter and NO_x. Concentrations of HCl and SO₂ at the Flare remained well below the approved operational and maximum limits. Concentrations of NO_x exceeded the maximum limit of 110 ppm on November 8, 2010. Operational parameters and process conditions were closely monitored to reduce NO_x emissions below 110 ppm. Daily organic matter concentrations are historically below the operational and maximum limits. The reporting of 10-minute rolling average concentrations for organic matter began for the January 2009 Monthly Engineer's report. There were three (3) non-compliance incidents during the reporting period when the 10-minute average concentration of organic matter exceeded the maximum limit at the Flare; October 22, 27 and 29/30, 2010. Incident investigation reports were submitted to the MOE. Incident summaries are provided in Section 3.3 of this report. Figures 3.1 and 3.2 illustrate the frequency of organic matter concentrations at the Flare during the Demonstration Project and the semi-annual reporting period, respectively.

Emissions from the Plasco Trail Road engines during the semi-annual reporting period remained below the operational and maximum limits set out in O.Reg 254/06 and Certificates of Approval Air No. 6925-6REN9E and No. 7043-8A7KNZ, for all compounds with the exception of organic matter. Organic matter emissions were regulated by a temporary Program Approval (issued November 2, 2010) to permit source testing of the engines while discharging to atmosphere. Organic matter emissions from the engines remained below the operational and maximum limits set out in that Program Approval. Figures 3.3 and 3.4 illustrate the frequency of organic matter concentrations at the engines during the Demonstration Project and the semi-annual reporting period, respectively.

TABLE 3.6 - Summary of Monthly CEMS Monitoring Results

Source	FLARE				ENGINE ⁺			
	MAX 24-HR		MAX 10-MIN		MAX 24-HR		MAX 10-MIN ¹	
Rolling Average Contaminant	NOx (ppmv)	HCl (ppmv)	SO ₂ (ppmv)	Organic Matter (ppmv)	NOx (ppmv)	HCl (ppmv)	SO ₂ (ppmv)	Organic Matter (ppmv)
Operational Limit		13	14	75		13	14	200
Maximum Limit	110	18	21	100	110	18	21	225
August 2010	97.23	0.56	9.80	58.25	n/a	n/a	n/a	n/a
September 2010	Shutdown				Shutdown			
October 2010	103.17	0.49	12.55	100.56*	n/a	n/a	n/a	n/a
November 2010	110.09*	0.87	10.94	18.57	n/a	8.87	n/a	101.73
December 2010	107.34	0.40	12.14	5.51*	n/a	n/a	n/a	n/a
January 2011	Shutdown				Shutdown			

Notes:

- ¹ Program Approval for organic matter emissions from the engines in effect from April 28, 2009 to January 24, 2010 and for source testing purposes only from November 2, 2010 to January 21, 2011.
- ⁺ No engine CEMS results for August, September, October & December 2010 – Engine 1 ran to atmosphere for 1 hr 2 minutes in November 2010.
- * Limit Exceedance: Maximum limit exceeded for Organic Matter at the Flare on October 22, 2010. DCS reported false Organic Matter exceedances on October 27 & 29/30, 2010. Maximum limit exceeded for NOx at the Flare on November 8, 2010.
- * 10 minute rolling average for Organic Matter was manually calculated due to error in automated CEMS calculations.

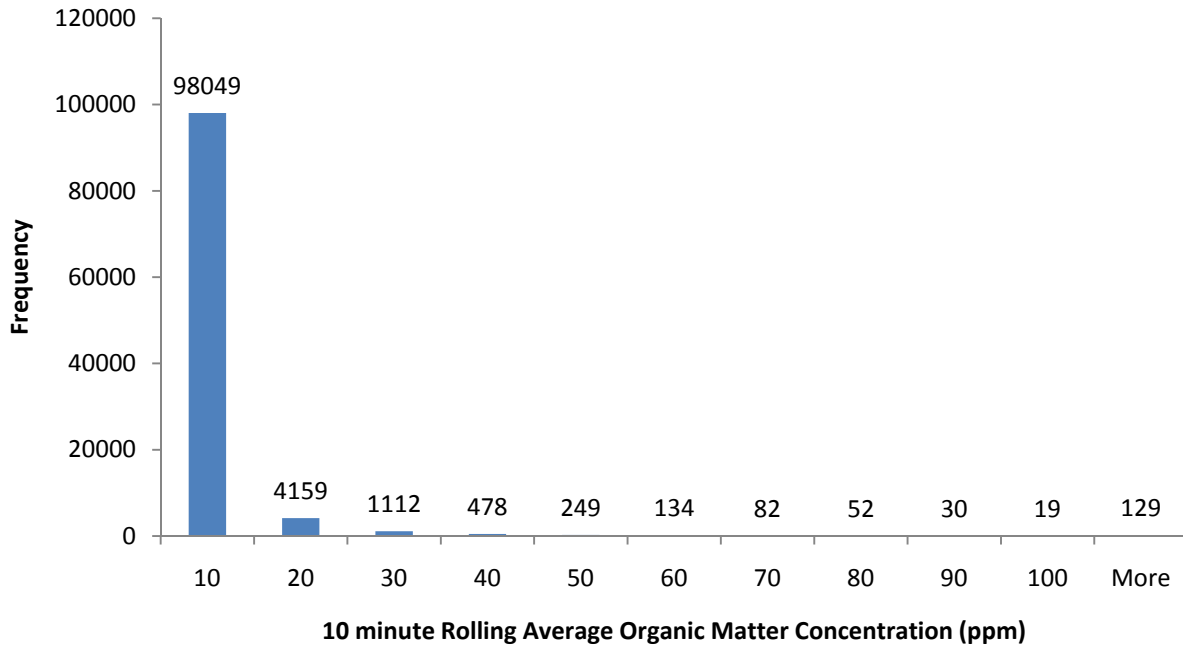


FIGURE 3.1 Frequency of Organic Matter Concentrations at the Flare (March 2009 – January 2011)

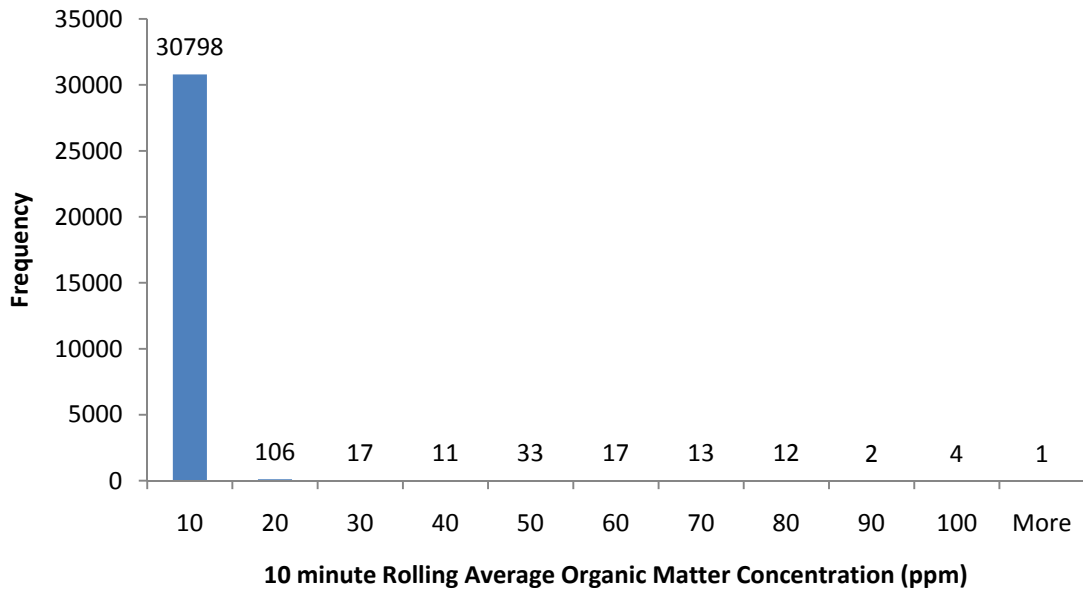


FIGURE 3.2 Frequency of Organic Matter Concentrations at the Flare (August 2010 – January 2011)

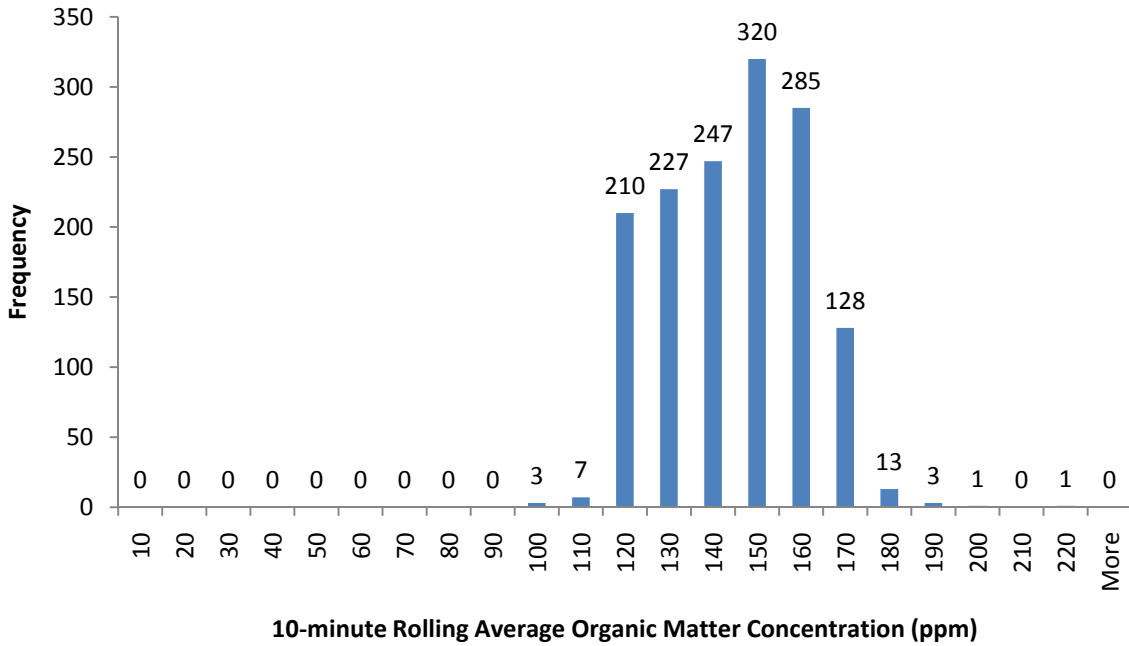


FIGURE 3.3 Frequency of Organic Matter Concentrations at the Engine (March 2009 – January 2011)

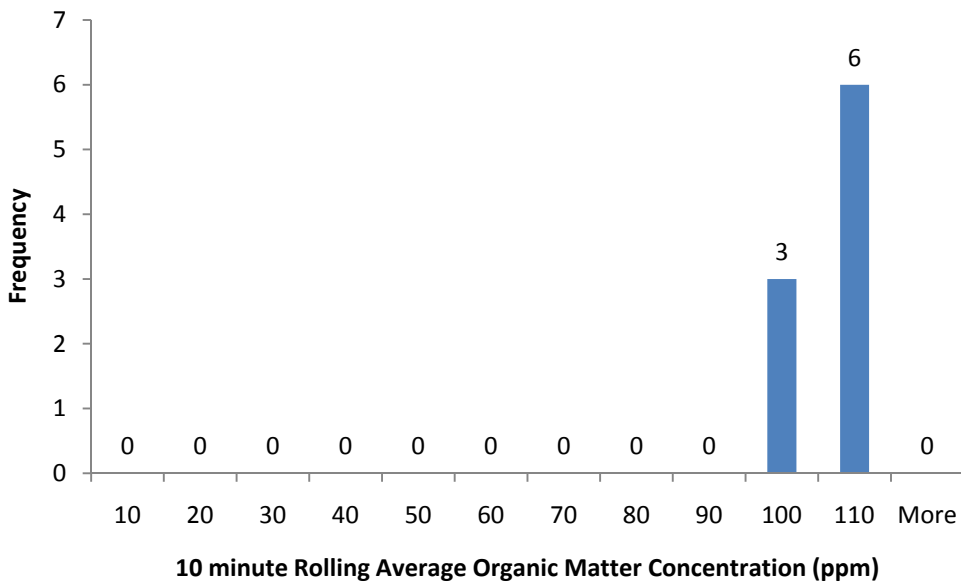


FIGURE 3.4 Frequency of Organic Matter Concentrations at the Engine (August 2010 – January 2011)

It is noteworthy to add commentary on the emissions of Total Organic Compounds from the engine exhaust and the resulting decision by Plasco to direct the entire engine exhaust to the flare solely for the purpose of destroying the residual methane (CH₄) in that exhaust stream.

PTR has five GE Jenbacher engines to combust syngas and make electrical power which is sold to the grid. Identical engines, where otherwise utilized in industry can use either landfill gas or natural gas as a fuel source. The emissions level of TOC from this engine is a function of “slip” (inherent in all internal combustion engines); efficiency of the IC engine has only a small impact on TOC emissions. In evaluating the makeup of the TOC, the vast majority is Methane—a gas that is not regulated in Ontario. The balance of the TOC is comprised of Non Methane Hydrocarbons (NMHC) which are controlled in the Plasco process, (but cannot be controlled in engine combustion). Semi volatile organic compounds (SVOCs) are removed to very low levels using both Plasma refinement and a sophisticated Gas Quality Cleaning Suite. VOCs are controlled through selective catalytic oxidation.

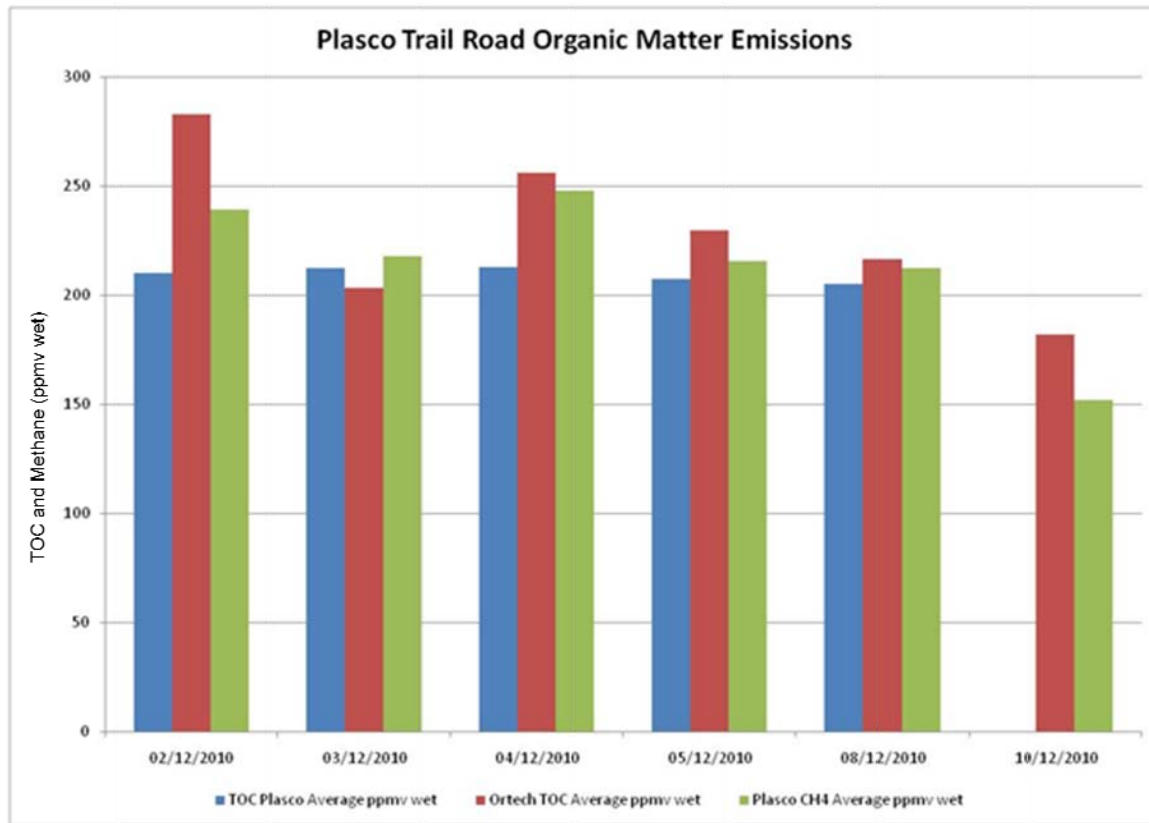


FIGURE 3.5 TOC vs. Methane in Engine Exhaust

Figure 3.5 shows a comparison of three different measurements techniques to measure organic matter in the engine exhaust during source testing conducted in December 2010. Plasco’s Continuous Emission Monitoring System measured both TOC and methane (CH₄) on a wet basis. An independent, RATA

certified CEMS (owned and operated by Ortech) is used to determine the accuracy of the Plasco CEM system while measuring TOC. The maximum range of Plasco’s TOC unit is 215 ppmv, if the actual concentration is higher than 215 ppmv, a value of 215 is shown which accounts for some of the TOC being less than the methane content. The rolling averages of Ortech’s and Plasco’s CH₄ channel are shown (the average of 10 minutes of valid data is used to calculate the rolling average). The comparison between these data stacks shows that the vast majority of the TOC content in the engine exhaust is methane. Data scatter causes both positive and negative offset between the data however it is not deemed to materially affect the comparison.

Table 3.7 below shows the average Organic and Non Organic Compound concentrations in the engine exhaust during the source tests conducted in December 2010. The concentrations of the select Non Organic compounds chosen (benzene and formaldehyde-which make up the majority of the NMHC fraction) are negligible when compared to either the average Total Organic Compound or Methane concentrations in the exhaust stream.

TABLE 3.7 – PTR-Organic and Non Organic Matter Concentration in Engine Exhaust

	TOC Plasco (Average)*	Ortech TOC (Average)	Plasco CH ₄ (Average)	Benzene (Average)	Formaldehyde (Average)
02/12/2010	210	283	241	1.96E-03	8.39E-02
03/12/2010	212	203	217	1.50E-02	1.50E-01
04/12/2010	213	256	248	2.76E-03	1.34E-01
05/12/2010	207	229	216	1.50E-02	6.81E-02
08/12/2010	204	216	230	5.80E-03	9.21E-02
10/12/2010	**	181	192	<6.207E-3	3.66E-02

(All data is expressed as ppmv wet)

*Values higher than 215ppmv are stored as 215 ppmv.

** Plasco’s TOC analyzer was out of service on December 10th, 2010

Benzene (VOC) Reduction in Engine Exhaust

In April 2009, a catalytic oxidizer was installed to reduce the emissions of Volatile Organic Compounds (VOCs) from the engine exhaust. Emission data on this configuration were collected. In September 2010, PTR installed a selective catalytic oxidizer on one of its engines to determine if even better NMHC control could be achieved. The comparative results indicated a 10X reduction of VOC compounds with the SCO as compared to the catalytic oxidizer and a 100X reduction as compared to untreated exhaust (See Figure 3.6). Source testing was performed by an independent, accredited testing contractor and witnessed by the MOE. The final results of that testing were submitted to the Ministry in March 2011.

Source testing has shown very low levels of all measured VOC, aldehyde and SVOC compounds. Table 3.7 shows that the impact of VOC measurements on total organic matter at the engine exhaust is negligible. The concentration of non-methane hydrocarbons is shown to be negligible as compared to the concentration of methane in the engine exhaust. The total carbon emissions from the engine are essentially all methane.

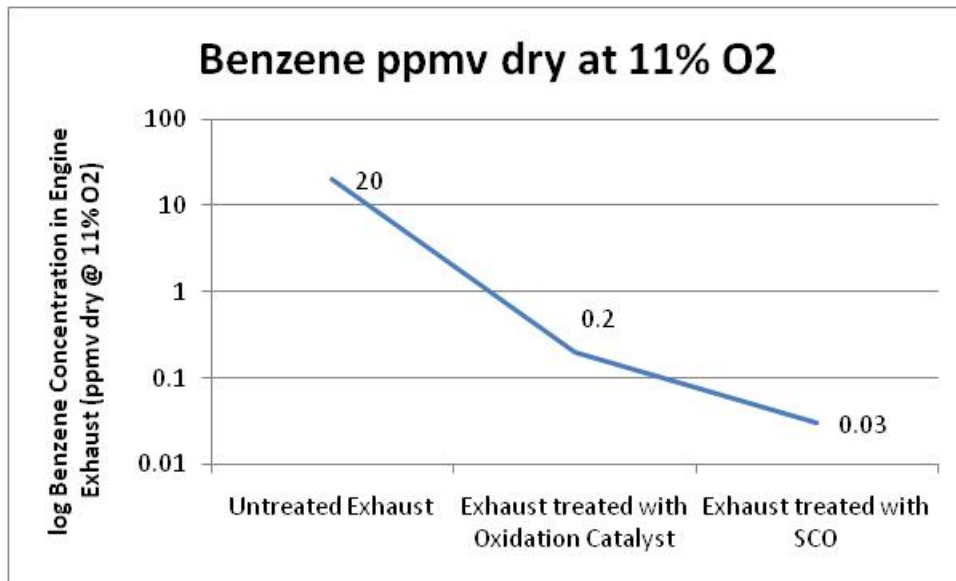


FIGURE 3.6 Benzene Reduction in Engine Exhaust

Emission Factor Data was used to compare PTR engine exhaust data to the exhaust of a similar 4 stroke lean burn natural gas fired engine. As can be seen in Table 3.8 and Figures 3.7 and 3.8 below, PTR has lower exhaust concentrations of TOC, Methane, VOCs, Benzene and Formaldehyde than a natural gas engine.

TABLE 3.8 – PTR Engines vs. Natural Gas Lean Burn Engine

Source	Date	TOC	Methane	VOC	Benzene	Formaldehyde
		mg/Rm ³ Dry @ 11% O ₂	mg/Rm ³ Dry @ 11% O ₂	ug/Rm ³ Dry @11%O ₂	ug/Rm ³ Dry @11%O ₂	ug/Rm ³ Dry @11%O ₂
PTR	02/12/2010	134.1	113.3	0.1	8.65E-03	2.15E-01
PTR	03/12/2010	96.3	103.0	0.4	6.94E-02	3.93E-01
PTR	04/12/2010	122.6	121.0	0.2	1.20E-02	3.38E-01
PTR	05/12/2010	112.8	105.9	1.3	6.65E-02	1.18E-01
PTR	08/12/2010	103.5	101.5	0.9	2.49E-02	1.51E-01
PTR	10/12/2010	91.9	76.3	1.1	2.78E-02	9.44E-02
Natural Gas Emission Factor Data	(Internal Combustion Engines, Industrial, Natural Gas, 4-cycle Lean Burn)	1318.1	1120.8	104.0	0.4	47.3

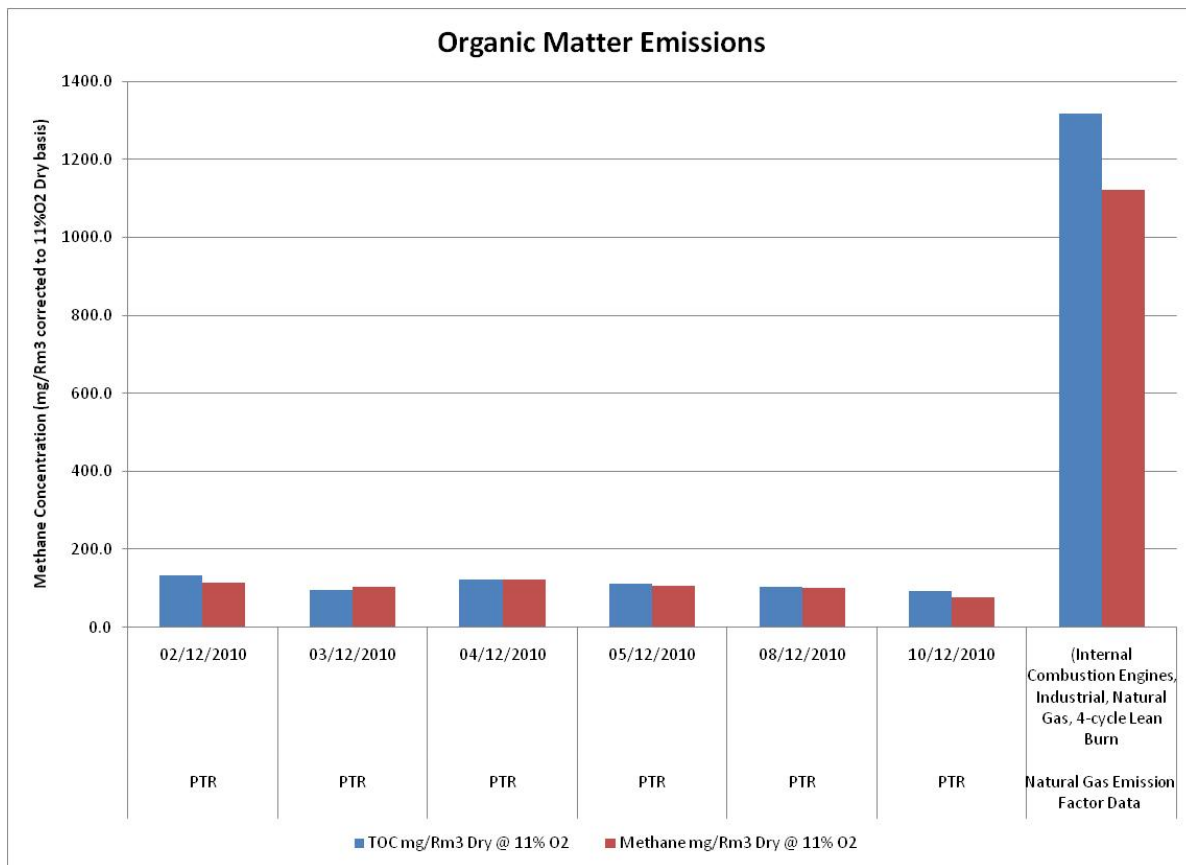


FIGURE 3.7 PTR Engines vs. Natural Gas Engines – TOC and Methane Concentrations

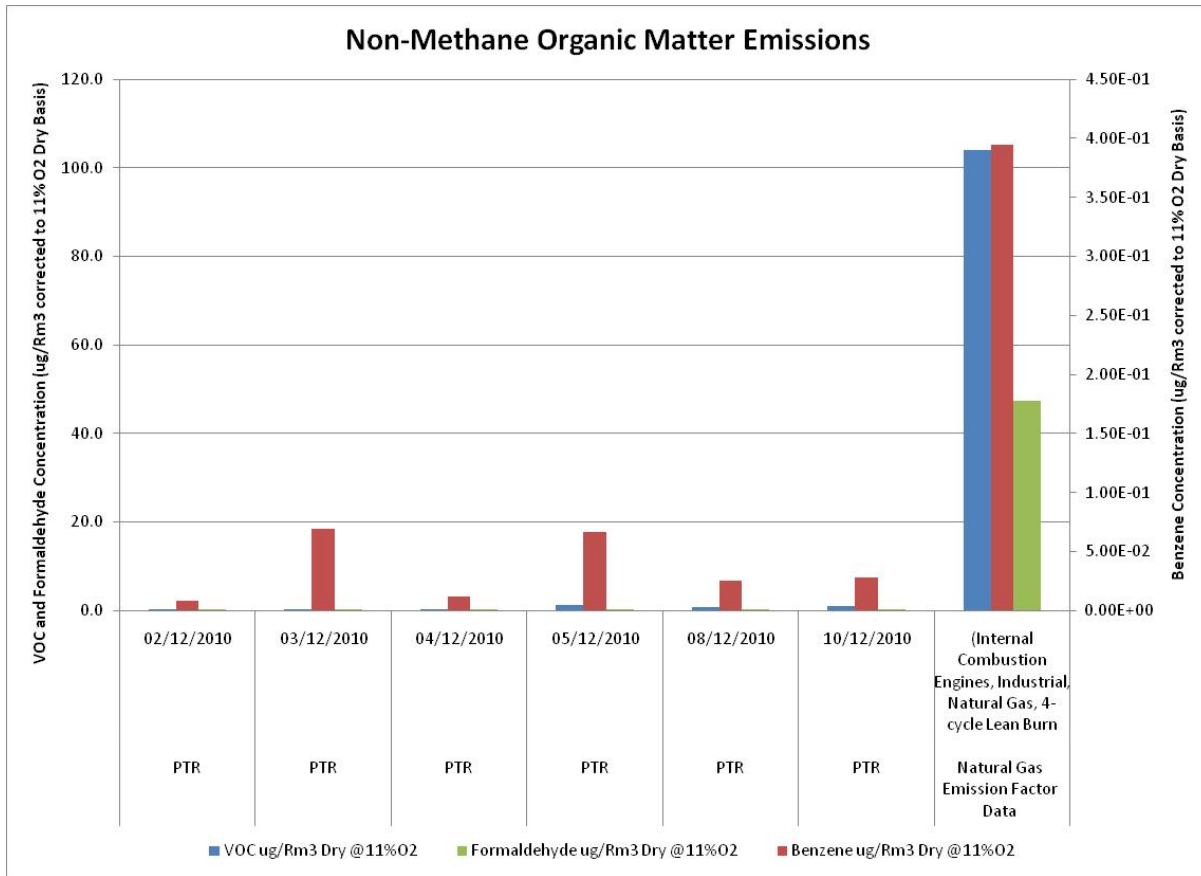


FIGURE 3.8 PTR Engines vs. Natural Gas Engines – NMHC Concentrations

The foregoing table and two figures indicate a compelling demonstration of the minimal Methane and NMHC emissions from the Plasco engines at PTR and their superior emissions profile in this area compared to natural gas fired engines.

[CEMS Availability](#)

Schedule E of Certificates of Approval – Air No. 6925-6REN9E and No. 7043-8A7KNZ require that accurate oxygen, NOx, CO, HCl and SO₂ data be obtained during a minimum of 90 percent of the time for each calendar quarter during the first full year of operation and 95 percent thereafter. Minimum temperature required reliability is 90% on a monthly basis, when the engines or the Flare are in operation. The Certificate of Approval does not specify a reliability requirement for organic matter.

Component availability only records the time the device is measuring data. The percent availability is based on the time data is available. The percentage of time that the process was available can be calculated on a 15 minute, 1 hour or 1 day average. The CEMView software uses the following equation to determine availability:

% Availability = $(T_a/T) \times 100\%$ (system or device)

T_a = valid hours; time during which the system or analyzer (device) was generating quality assured data. This data is recorded through the data acquisition system.

T = operating hours; total time the source (process) operated during the time period.

The following table (Table 3.8) presents the Plasco Trail Road CEMS availability data for 2009 & 2010, based on component measured data (not adjusted to 11%O₂) at 1 day average intervals. CEMS availability data is not available for 2008. Engines did not exhaust to atmosphere in the second and third quarters of 2010, therefore CEMS availability data is not applicable. Engines exhausted to atmosphere for 1 hour and 2 minutes during the semi-annual reporting period.

According to the CEMSVIEW computer, the temperature availability would have fallen below 90% in April and August of 2009 and May and August of 2010. Upon investigation, it was discovered that the CEMS records temperature values when the process is down and the Flare stack is cold. These measurements are counted as operating hours in the temperature availability calculation. Data verification and manual calculations confirm that the CEMS stack temperature component availability was above 90%, each month during the reporting period (2009 – 2010).

Engine availability consistently falls below the 95% criteria because of the way in which the data is tabulated and the averages calculated. When an engine is exhausting to atmosphere at PTR, the CEM system switches from the engine to the Flare to collect representative samples from both emission sources. When the CEMS is sampling from the engine exhaust, 1-minute data is collected. However, to collect a valid hour of data, four consecutive valid 15-minute time intervals within the clock hour, each containing at least 1 minute of valid data from the source must be collected. Depending on engine start-up time, shutdown time, engine trips and CEMS sample switching, engine operation may not yield a valid-flagged hour of emissions data. These invalid hours are counted as operating hours in the engine component availability calculations, driving down the availability percentage. Moving forward, Plasco intends to purchase a second CEM system, dedicated to engine emission monitoring.

Organic matter availability fell below 95% in September 2009 and December 2010. The Euro FID was sent for scheduled maintenance during the facility maintenance outage period of August 21-30, 2009. Upon facility start-up, calibration difficulties were encountered with respect to organic matter monitoring reading high. As a precautionary measure, Flare temperature was maintained at or above 750°C to ensure the adequate destruction of organic matter. Total runtime without valid organic matter data is approximately 12 hours at the Flare and 20 minutes at the engines. The FID was sent for emergency maintenance in December 2010. A third party CEMS was used to monitor organic matter emissions during source testing operations while the Plasco FID was offsite for maintenance.

TABLE 3.9 - Plasco Trail Road CEMS Component Availability

Contaminant	Time Average	Availability (%)								Criteria
		2009				2010				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4 ¹	
FLARE										
Temperature	1 day	100.00%	99.51%	99.68%	100.00%	91.85%	99.40%	99.34%	97.78%	90%
Carbon monoxide	1 day	99.44%	99.63%	99.72%	100.00%	100.00%	99.62%	100.00%	99.04%	95%
Oxygen	1 day	99.44%	99.02%	99.59%	100.00%	99.79%	95.44%	100.00%	99.04%	95%
Oxides of nitrogen	1 day	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	95%
Hydrogen chloride	1 day	99.44%	99.63%	99.72%	100.00%	99.79%	96.39%	100.00%	99.04%	95%
Sulphur dioxide	1 day	99.44%	99.63%	99.72%	100.00%	100.00%	99.62%	100.00%	99.04%	95%
Organic matter	1 day	99.44%	95.37%	92.97%	96.40%	100.00%	99.62%	99.48%	82.49%	
ENGINES										
Temperature	1 day	80.00%	37.93%	47.22%	60.87%	38.46%	n/a	n/a	0.00%	90%
Carbon monoxide	1 day	75.86%	21.43%	48.15%	18.18%	50.00%	n/a	n/a	0.00%	95%
Oxygen	1 day	75.86%	21.43%	48.15%	18.18%	50.00%	n/a	n/a	0.00%	95%
Oxides of nitrogen	1 day	75.86%	21.43%	48.15%	18.18%	50.00%	n/a	n/a	0.00%	95%
Hydrogen chloride	1 day	75.86%	21.43%	48.15%	18.18%	50.00%	n/a	n/a	0.00%	95%
Sulphur dioxide	1 day	75.86%	21.43%	48.15%	18.18%	50.00%	n/a	n/a	0.00%	95%
Organic matter	1 day	75.86%	21.43%	47.17%	13.64%	50.00%	n/a	n/a	0.00%	

¹ See paragraph 4 on p. 3-23

3.4.2 Source Testing

Plasco Trail Road was required to perform Source Testing to determine the rates of emission of carbon monoxide, oxygen, nitrogen oxides, hydrogen chloride, sulphur dioxide, organic matter and the Test Contaminants (particulate matter, lead, cadmium, mercury, dioxins and furans, the polyaromatic hydrocarbons contained in Schedule C and the volatile organic compounds contained in Schedule D) from the reciprocating engine and Flare exhaust stacks, at the maximum load achievable at the time of testing under different operating scenarios, in accordance with amended Certificate of Approval – Air No. 6925-6REN9E:

- a) Scenario 1: the feed to the Converter is all Municipal Waste;
- b) Scenario 2: the feed to the Converter is majority Municipal Waste with about 3-5% by weight of the feed High Carbon Waste consisting primarily of recycled plastic rejects; and,
- c) Scenario 3: the feed to the Converter is majority Municipal Waste with about 3-5% by weight of the feed High Carbon Waste consisting primarily of shredded tires.

As outlined in Notice #10 issued on January 25, 2010, fulfillment of this requirement was due no later than June 30, 2010.

Due to the specifications of Ontario Regulations 253/06 and 254/06 which regulated the operations of Plasco Trail Road, source testing of Scenario 3 has not been performed at either engine or Flare stacks since compliance with O. Reg. 253/06 Condition 2(3)3 and O. Reg. 254/06 Condition 7, which specify the type and origin of the waste to be processed, cannot be met in order to obtain the required shredded tires. O.Reg. 254/06 Condition 7 specified that the shredded tire waste could not be destined for recycling prior to being accepted at Plasco Trail Road. The supplier identified in the Regulation could not provide any waste that satisfied this condition. In addition, Plasco has been successful in producing high quality syngas from unsorted MSW and non-recycled plastics and does not require supplemental high carbon waste from tires to generate power. Plasco determined that the process does not require shredded tires in order to elevate the calorific value of the MSW feed and submitted an amendment application to CofA - Air No. 6925-6RNE9E Condition 6(4)(c) specific to the Source Testing of Scenario 3 (tires) at both the Flare and engines. Condition 6(4)(c) of the CofA was revoked with Amended Certificate of Approval – Air No. 7043-8A7KNZ issued on October 27, 2010.

Official compliance source testing was not completed during the first year of operation at the Plasco Trail Road Facility since process operations were not at steady-state, and nor was throughput near design levels. In addition, the permanent Flare was only installed and commissioned in April 2009.

Plasco Trail Road completed source testing of Scenarios 1 and 2 at the Flare during three separate periods (November 2009, December 2009 and January 2010). Complete Source Testing reports were submitted to the Ministry Ottawa District Office and the Technology Standards Section – Standards

Development Branch. The Flare Source Testing reports were not accepted by the MOE due to the Ministry's concerns regarding modifications of the pre-test plan and absence of clear documentation of those deviations by the source testing company. Summary results sheets are presented in Appendix V. A Relative Accuracy Test Audit (RATA) was completed at the Flare on January 21, 2010. RATA results showed that the originally approved CEMS ranges require modification to meet the requirements specified in the CofA Air. An amendment application to CofA - Air No. 6925-6RNE9E was made to have the new ranges approved. Amended Certificate of Approval – Air No. 7043-8A7KNZ issued on October 27, 2010, allowed for modifications to the CEMS ranges to be selected once sufficient supporting process data under the new operational configuration had been collected.

Due to elevated NOx concentrations at the engine exhaust, and in an effort to meet the deadline prescribed by Notice #10 of Amended Certificate of Approval – Air No. 6925-6REN9E for Source Testing at the engines, Plasco submitted a Pre-Test Plan Deviation Request to perform Source Testing at the Engine 3 exhaust bypass to the Flare to mitigate potentially high emission concentrations. Source Testing of Scenarios 1 & 2 and a preliminary RATA at the Engine 3 bypass to the Flare were performed over a period of three months (March, April and May 2010). In April 2010, the MOE requested additional Source Testing at a different location in the engine exhaust reflecting their interpretation of the source testing standards for the Province. Sampling at the Engine 3 bypass was completed for Plasco internal purposes; however, interim and final reports on completed Engine Source Testing from the spring of 2010 were not submitted to the Ministry. Summary results sheets are presented in Appendix V.

In December 2010, Plasco Trail Road again conducted additional Source Testing to determine the rates of emission of carbon monoxide, oxygen, nitrogen oxides, hydrogen chloride, sulphur dioxide, organic matter and the Test Contaminants from the reciprocating engine and Flare exhaust stacks, at the maximum load achievable at the time of testing under different operating scenarios, in accordance with amended Certificate of Approval – Air No. 7043-8A7KNZ Notice 1:

- a) Scenario 1: the feed to the Converter is all Municipal Waste;
 - a. At the Flare while combusting syngas and assist gas;
 - b. At the Flare while combusting syngas, Engine 1 exhaust and assist gas; and,
 - c. At a representative location in the vertical exhaust ductwork after the SCO/SCR of Engine 1, when Engine 1 is at the maximum load achievable at the time of testing but not less than 350 kW.

- b) Scenario 2: the feed to the Converter is majority Municipal Waste with about 3-5% by weight of the feed High Carbon Waste consisting primarily of recycled plastic rejects;
 - a. At the Flare while combusting syngas and assist gas;
 - b. At the Flare while combusting syngas, Engine 1 exhaust and assist gas; and,

- c. At a representative location in the vertical exhaust ductwork after the SCO/SCR of Engine 1, when Engine 1 is at the maximum load achievable at the time of testing but not less than 350 kW.

The final source test reports for both Flare and Engine 1 were submitted to the MOE on March 4, 2011 in accordance with Condition 6(8) of Certificate of Approval – Air No. 7043-8A7KNZ. Results are currently under review by the Ministry. Summary results sheets are presented in Appendix V.

Additional non mandatory emission monitoring efforts have been completed including extractive sampling of engine exhaust, of in-process syngas and process water in an effort to understand the NOx chemistry of the Plasco Conversion Process and reduce emissions. Investigations into CEMS accuracy and NMHC emissions emanating from internal combustion engines powered by fuel gas derived from municipal solid waste is ongoing.

4 ENVIRONMENTAL AND OPERATIONAL UPDATES

4.1 Chronology of Plasco Operations

Plasco Trail Road's first years of operation included many successes and process/site improvements. The chronology of these first years is listed below.

January 2008

- January 24, 2008 – Municipal solid waste (MSW) first received at the Plasco Trail Road Demonstration Facility;
- January 25, 2008 – MSW first processed;
- Addition of ash storage area;
- Addition of slag chamber feed hopper;
- Addition of carbon beds for HCl blowdown; and,
- Relocated ash screw conveyor.

February 2008

- February 18, 2008 – Engines run on MSW syngas for the first time.

March 2008

- Installation of rental/alternate John Zink Flare.

September 2008

- Modifications to sulphur removal system;
- Reconfigured feed network;
- Modifications to conversion chamber material movement system; and,
- Construction begins on Visitor Centre, Administration Building, Ash Storage Building, MSW Annex.

October 2008

- Installation of Carbon Recovery Vessel (CRV);
- Reconfigured feed network (continued);
- Installation of Carbon Bed bypass – during start-up, shutdown & maintenance;
- Installation of Bag house bypass – during start-up & shutdown;
- Installation of oxidation catalyst on the exhaust of Engine 3;
- Modifications to sulphur removal system (continued); and,
- Modifications to conversion chamber material movement system (continued).

November 2008

- Commissioning of CRV;

- Installation of Wastewater Treatment System; and,
- Modifications to conversion chamber material movement system (continued).

December 2008

- Construction complete on MSW Annex, Ash Storage Building;
- Modifications to Slag Granulation system – back to screwfeeder system; and,
- Extended permits for rental Flare – permanent Flare not yet delivered.

January 2009

- Construction complete on Visitor Centre and Administration Building.

February 2009

- Initial commissioning of the Wastewater Treatment Plant.

March 2009

- Changes made to ram operating parameters result in continuous quality syngas.

April 2009

- Permanent Flare is installed and commissioned;
- Commissioning of Wastewater Treatment Plant; and,
- Control room is relocated to the Visitor Centre.

May 2009

- Water is first shipped to City of Ottawa, R.O. Pickard Environmental Centre (ROPEC) as sewer-grade water.

June 2009

- SDTC Test completed.

July 2009

- Re-installation and testing of Carbon Recovery Vessel (CRV);
- Slag granulation system removed; and,
- Plasco Trail Road is considered by the Ontario Government to be a manufacturer of power.

August 2009

- The performance of the HCl heat exchangers increased (requiring less maintenance and cleaning); and,
- Water based slag granulation system replaced by sandbox design.

October 2009

- Press release announcing Plasco's successful completion of the SDTC program; and,
- Carbon Recovery Vessel (CRV) process improvements and increased syngas quality.

November 2009

- Engine tuning training in Austria for two Plasco employees; and,
- Compliance source testing begins at the Flare.

January 2010

- Plasco's own internal maintenance program, coupled with a lack of major capital projects resulted in January being the first month without any mechanical contractors performing work on site;
- Replaced the carbon in the carbon bed;
- New 'Granular Feeder' device employed for the first time to help control heat flux in CRV using lime (CaO); and,
- New GACs charged with activated alumina to reduce zinc levels in the treated water commissioned.

March 2010

- Reconditioned CRV melter installed;
- Two new particle separators on the CRV hotpipe to the Converter to help prevent recuperator fouling are installed; and,
- Teardown, cleaning and rebuild of both HCl heat exchanger plate packs.

April 2010

- CRV particle separator removed from the hotpipe and upper section of the hotpipe is cleared.

May 2010

- Converter cyclone separator removed, cleaned and re-installed; and,
- Engine 3 Source Testing at the bypass completed.

June 2010

- Bag house filter bags replaced;
- HCl scrubber packing inspected and cleaned;
- Replaced the carbon in the carbon bed;
- Replaced recuperator tubes;
- Engineering testing to determine conversion efficiency and NH₃ removal; and,
- Installation of reconditioned ash melter, performed very well, with minimal issues with the tap hole.

July 2010

- Engineering testing of the new (temporary) filter press;
- Engineering NOx suppression tests and Recuperator temperature tests;
- Installation of new suction piping to HCl scrubber to increase flows; and,
- Installation of new spiral heat exchanger on HCl scrubber to increase cooling.

August 2010

- Installation of CRV cleanout lines;
- Installation of Recuperator air lines to reduce fouling;
- Site evacuation drills to evaluate the emergency horns and the evacuation system as a whole; and,
- Site GQCS disassembly.

September 2010

- Purchase of treated water storage tanks;
- Installation of SCR/SCO system on Engine 1 for emission controls;
- New piping for all of HCl system for better flow control;
- Repiping of the GQCS system; and,
- New pumping capability for treated water to ROPEC, reducing tanker loading times by 70%.

October 2010

- Testing and Commissioning of new venturi scrubber, eliminating dry fly ash;
- Testing and Commissioning of new polishing filter enclosure and vessels;
- Testing and Commissioning of new filter house;
- Installation of new spiral heat exchanger; and,
- Testing and Commissioning of new filter press.

November 2010

- Successful completion of a 21 day Reliability run;
- New Recuperator clean out procedure, reducing contractor support; and,
- Installation of newly oriented tap hole on CRV ash melter.

December 2010

- Completion of Source emission tests for MOE;
- Engineering testing of new configuration of tap hole on CRV;
- Engineering testing of wastewater system; and,
- Following the completion of the source tests, plant equipment was drained and isolated in preparation for an extended shutdown in anticipation of future Integrated Conversion and Refining System (ICARS) construction.

January 2011

- PTR project demonstration phase closure.

4.2 Environmental Update

The following environmental items were documented as having the potential to cause an adverse affect during the 3 year demonstration period.

4.2.1 Emissions Monitoring

The Plasco Trail Road facility used a Continuous Emissions Monitoring System to record temperature and the emission concentrations of carbon monoxide, oxygen, nitrogen oxides, hydrogen chloride, sulphur dioxide and organic matter to atmosphere from both the Flare and engines. Regular maintenance and calibration was conducted. Additional details are provided in Section 3.4 of this report.

Plasco Trail Road performed Source Testing of Scenarios 1 & 2 at the Flare and the Engine 1 bypass reroute to the Flare during December 2010 to comply with Certificate of Approval – Air No. 7043-8A7KNZ, as amended. Two configurations were tested at the Flare: 1) Flare combusting syngas and assist gas (propane), and 2) Flare combusting syngas, Engine 1 exhaust plus assist gas. Additional details are provided in Section 3.4 of this report.

Plasco Trail Road also performed Source Testing of Scenarios 1 & 2 at the Engine 3 bypass reroute to the Flare in an effort to comply with Certificate of Approval – Air No. 6925-6REN9E Notice #10, issued January 25, 2010. The MOE requested that additional sampling be conducted at a location more representative of the engine emissions profile. Additional internal investigations were conducted in an effort to better understand engine NMHC emissions, CEMS accuracy and the NO_x chemistry of the Plasco Conversion Process. Additional details are provided in Section 3.4 of this report.

4.2.2 Non-Compliance Events

The Plasco Trail Road facility has many safeguards in place to protect the environment from excessive site emissions to atmosphere. Air emissions are closely monitored and controlled during the operation of the plant. Although all provisions are made to prevent spills, unexpected events still occur. The following is a summary of non-compliance incidents recorded at the site.

Concentrations of SO₂ exceeded the operational emission limit at the Flare on two (2) separate occasions during the 3 years of operation. Concentrations of SO₂ approached the operational emission limit at the Flare on one occasion. One exceedance was caused by an unplanned exothermic reaction in the sulphur impregnated carbon contained in the carbon bed. This caused a sudden release of the sulphur contained in the bed. The remaining two SO₂ incidents were caused by the failure of a caustic injection system in the wet scrubber.

Concentrations of NO_x exceeded the maximum emission limit at the Flare on two (2) separate occasions over 3 years of operation as a result of 1) excess oxygen in the Flare exhaust and 2) switching off engine exhaust flow to the Flare, causing a fast uncontrollable spike in NO_x concentrations.

Concentrations of organic matter exceeded the maximum emission limit at the Flare on eighteen (18) occasions during the 3 year Demonstration period. These incidents were caused by issues with the control of Flare parameters, including sufficient assist gas flow, faulty igniters, and Flare trips.

Concentrations of SO₂ approached the operational emission limit at the engines on one (1) occasion and exceeded the operational emission limit at the engines on one (1) occasion. The causes were a failure in the caustic injection system in the wet scrubber and suspected non-methane hydrocarbon interference, respectively.

Concentrations of NO_x exceeded the maximum emission limit at the engines on three (3) separate occasions during the 3 years of the Demonstration Project. All incidents occurred during tuning activities for NO_x reduction.

The DCS reported concentrations of organic matter in exceedance of maximum emission limits at the engines on one (1) occasion as a result of erroneous data flagging by the CEMS.

Six (6) Cessations of Discharge were declared during the Demonstration period. Four of the six declarations were made in advance of exceeding the emission limit for more than one hour.

On eight (8) dates in December 2008 and January 2009, the activated carbon bed filter was bypassed during gasification. The incidents were caused by the carbon bed filter exit valve freezing. When the valve froze, it became impossible to flow syngas through the carbon bed and the bypass opened. On two (2) dates in February and April 2009, the activated carbon bed filter was bypassed during gasification. On both occasions a spike in oxygen concentration in the syngas caused the bypass to open automatically. The alarms to alert operations staff to the bypass of the carbon bed were malfunctioning; the issue has since been corrected.

The maximum waste holding time was exceeded on two (2) occasions during the Demonstration Period: January 15, 2009 and November 4, 2010. Waste received on January 12, 2009 was returned to the Trail Road Landfill Facility on January 16, 2009. An amendment application to adjust the MSW storage limits from 72 to 96 hours was approved. A portion of the MSW being returned to the Trail Road Landfill on November 3, 2010 was refused by the hauler and was unable to be shipped until November 4, 2010.

Semi-Annual Period (August 2010 – January 2011)

Concentrations of organic matter exceeded the maximum emission limit at the Flare on three separate occasions during the semi-annual reporting period. Concentrations of NO_x exceeded the maximum emission limit at the Flare for one 1-hour period. Mitigation included modifications to operating procedures and system control logic.

Five (5) liquid spills occurred during the semi-annual reporting period. Mitigation included modifications to operating procedures and equipment repairs.

The maximum MSW storage time of 96 hours was exceeded on November 4, 2010. Approximately 10.5 tonnes of unprocessed MSW was rejected by the hauler on November 3, 2010 due to the hauler's fears that the steaming material was burning. The stockpiled waste was spread across the tipping floor to cool and the waste load was accepted by the hauler the next morning.

Additional details on the above incidents are provided in Section 3.3 of this report.

4.2.3 Approvals

The regulations, approvals and amendments issued during the entire Demonstration Project are outlined in Section 2.1 of this report. The following approvals and amendments were issued during the most recent semi-annual reporting period.

Certificate of Approval – Air No. 7043-7A8KNZ for the Plasco Trail Road facility was issued October 27, 2010.

Amendment Notice 1 Certificate of Approval – Air No. 7043-7A8KNZ for the Plasco Trail Road facility was issued November 26, 2010.

Amendment Notice 1 for Certificate of Approval – Air No. 4152-84K5 for the 3x3 Thermal Test Unit was issued January 7, 2011.

Provisional Certificate of Approval – Waste Disposal No. 3166-6TYMDZ for the Plasco Trail Road facility was issued January 13, 2011.

4.3 Operational Update

The Plasco Trail Road facility is the first of its kind. Every gasification run adds to Plasco's operational experience. Throughout the reporting period, a number of operational factors were identified and solved.

4.3.1 Reliability & Safety Improvements

Improvements were made to address the reliability and safety of both the facility and the process over the course of the Demonstration Project. Key improvements included:

- Redesigned the entire waste fuel feed system to the converter, incorporating the decoupling of the preparation equipment from the delivery equipment and the relocation of the entire system into the MSW building;
- Created a shredding/preparation line, independent of the delivery equipment, eliminating choke points and removing what had been frequent single point sources of failure;
- Added a vibratory feeder to the redesigned MSW feed system for uniform distribution and delivery of the waste fuel to the converter;
- Replaced the steep drag chain on the feed system with a shallow-angle belt large enough to handle the required feed volume;
- Relocated the high carbon feed system to its own enclosed building;
- Raised the level of the MSW feed by installing a baffle inside the converter for a better air seal improving the gas quality and minimizing tramp air leakage into the gasification chamber;
- Strengthened the ash extractor screw;
- Installed a bypass on the bag house for use in startup and shutdown procedures in order to protect the bags;
- Installed a bypass on the activated carbon bed filter for use during startup, shutdown and maintenance situations;
- Replaced the original evacuation hopper under the bag house with a live bottom that continuously evacuates the ash from the bottom of the vessel utilizing continuously operating screws;
- Installed piping, valves, and bins between the carbon recovery vessel (CRV), bag house, and converter to allow independent operation of the CRV and converter;
- Reduced the potential for single-point failures due to emergency shut-downs from faulty instrumentation;
- Replaced V4 refractory topped air boxes with V5 inconel topped boxes => improved resistance to thermal stresses;
- Replaced and lowered inlet baffle above stage 1 air box reducing air ingress to converter and improving conversion;

- Widened existing chutes and added an additional drop chute to the ash conveyor 2136 to reduce opportunity for material jams and improve ash recovery;
- Installed supports on bottom of syngas storage tank to minimize tearing stresses and reinforce tank structure/safety;
- Replaced bag house inlet piping and outlet piping;
- Replaced bag house inlet valve improving reliability and safety => able to ensure proper isolation and ensure operability;
- Replaced all bag house pulse tube clamps (hold the pulse tube to the nipple to secure in place) with more robust clamp => eliminated failure of clamp due to thermal cycling that had previously resulted in pulse tubes separating from nipple and falling to tube sheet floor. Also replaced many of the bag house internals (venturis, cages, bags, pulse tubes coated) with more corrosion resistant materials to improve performance and minimize downtime;
- Added clean-in-place ports to several heat exchangers on site to minimize the downtime required to complete routine maintenance;
- Addressed NOx/temperature control issues at Flare by initiating Flare tuning activities including improving the reliability and control of the assist gas valves and louvers;
- Replacement of the water based slag granulation system with a simpler 'sandbox' design, thus eliminating the slag recovery issues. System will require improvement for a commercial plant;
- Installation of two new PVC transfer lines from the Wastewater tank to the treatment plant and back to the Baker tank area. These new lines were buried under high traffic areas to avoid damage, and heat traced and insulated where they were above ground outside. The hard piping of these lines eliminated the likelihood of leakage at the threaded joints on the hoses;
- Installation of a new header system constructed of PVC pipe at the front of the tanks, allowing any of the tanks to be pumped to the loading area using a common pump. The pump area for these tanks was bermed and sealed with a rubber liner to contain any spills;
- Construction of 'winter enclosures' around sections of the plant that have been prone to freezing during the winter months. The bermed area by the WW Quarantine tanks was totally enclosed to prevent the freezing of the polishing skids and pumps for the treated water, and provided a heated storage area for the loading hoses;
- A number of safety sessions held in May and June 2010 for initial or refresher training;
- Rollout of a hazardous condition reporting program to identify potential safety issues;
- Implementation of a thorough occupational hygiene and environmental health program by EA consultants;
- Installation of the Spiral Heat Exchanger on the HCl column; and,
- Extension of the converter exit screw and modification to the drop chute.

A number of additional reliability and safety improvements were implemented during the last semi-annual reporting period. These improvements include:

- Installation of CRV cleanout lines;
- Installation of Recuperator air lines to reduce fouling;
- Site evacuation drills;
- Installation of SCR/SCO system on Engine 1 for emission controls;
- Installation of a venturi scrubber, eliminating dry fly ash;
- Installation of a new WW polishing filter house;
- Installation of a new spiral heat exchanger;
- Installation of 2 new filter presses ;
- New Recuperator clean out procedure, resulting in reduced need for contractor support; and,
- Testing of new CRV tap hole configuration resulting in better slag manipulation and increased operator safety.

4.3.2 Process Improvements

A number of improvements to the process were implemented during the 3 years of the Demonstration Project. Key improvements included:

- The installation of the carbon recovery vessel (CRV) and its subsystems in October 2008;
- A new water treatment facility was installed and commissioned obviating the need to transport waste water to a specialty disposal location in Toronto. Following a very rigorous and thorough testing and analysis protocol to ensure acceptability, all of our effluent is now delivered to ROPEC for disposal. Deliveries to ROPEC began in the latter half of May and have totalled approximately 10.9 million litres of water to date;
- Addition of activated alumina in the Wastewater Polishing skid to help control metal (zinc) levels in the treated water;
- Experimentation with the MSW pile height, hole patterns and size in the air boxes, changes in the operating parameters and cycles of the ram fingers, as well as reduction of air leaks into the converter (via lowered inlet baffle) have resulted in better and more consistent gas quality enabling us the ability to run the engines at will consistently;
- The installation and commissioning of the new permanent Flare to replace the rental unit that was on site from March of 2008;
- Optimization of the cyclone separators in the CRV and Converter, which while short lived (2-4 months) were somewhat effective in eliminating particulate from getting caught in the Recuperator;
- Addition of instrument air to the Recuperator to remove PAH deposits; and,
- Installation of the reconditioned CRV bottom – ash melter, with improved design and tap hole configuration.

A number of additional improvements to the process were implemented during the last semi-annual reporting period. These improvements include:

- Installation of a venturi scrubber, eliminating dry fly ash;
- Installation of a new filter house;
- Installation of a new spiral heat exchanger;
- Installation of a new filter press;
- New Recuperator on-line clean out procedure;
- Installation and testing of new CRV tap hole configuration;
- New pumping capability for treated water to ROPEC, reducing tanker loading times by 70%;
- Installation of SCR/SCO system on Engine 1 for emission controls;
- New piping for all of HCl system for better flow control; and,
- Re-piping of the GQCS system.

Permanent Facility Improvements

In addition to the process and reliability and safety improvements implemented in the three years of operation, Plasco chose to improve the facility itself by adding a number of permanent structures.

- The Visitor Centre – Control room was relocated to the Visitor Centre in April 2009;
- The Administration building;
- The ash storage building; and,
- The high carbon feed (HCF) building (otherwise known as the MSW Annex).

The original design for the process did not make provisions for handling both of the ash streams when the CRV melter was unavailable. As the CRV process design evolved the functionality and availability of the melter varied. During these periods of testing, ash bins were used to move converter ash from the bottom of the converter as well as the fly ash from the bag house into storage in the MSW building. In the Fall of 2008, the ash building was constructed to improve the ash handling method. The ash building was available for use in November 2008. Within the building, the ash is segregated into four (4) bunkers. The north side is dedicated to the handling and cooling of converter ash (inert) and the south side bays are dedicated to the handling and cooling of bag house ash. The use of the ash building has expanded over time to function as a holding area for some of those process by-products that the facility was not permitted to convert in the gasifier.

5 REPORTING CHANGES

In early August 2010, Plasco Trail Road was shut down for process optimization. After almost three years of extensive and rigorous engineering testing, Plasco had determined that certain components within the process would be replaced in the commercial design. This replacement equipment was purchased and installed at the Plasco Trail Road facility in the fall of 2010 to ensure robustness and improved reliability of the commercial design. As a result, the site's Emission Summary and Dispersion Modelling Report (ESDMR), Emergency Response Plan and Financial Assurance were revised to reflect the facility's process and equipment modifications.

Plasco Energy Group issued a Notice of Commencement for an Environmental Screening Assessment for the Plasco Trail Road facility on December 23, 2010. Plasco is proposing to continue operation of the Trail Road facility as a permanent commercial demonstration and development facility and have revised the Emission Summary and Dispersion Modelling Report and the Design and Operations Report (DOR), accordingly.

5.1 Emission Summary and Dispersion Modelling Report

Over the course of the Demonstration Project, the Plasco Trail Road Emission Summary and Dispersion Modelling report was updated in August 2008, October 2008 and October 2010. Additional amendments not requiring a revision to the ESDMR were approved and issued as appended Notices to the Certificate of Approval.

The Plasco Trail Road ESDMR was updated in October 2010 to reflect changes to the Gas Quality and Conditioning Suite. Amended Certificate of Approval – Air No. 7043-8A7KNZ was approved and issued on October 27, 2010. Amendment Notice No. 1 was issued on November 26, 2010 addressing Engine 1 ductwork and expanded source testing requirements. Amendment Notice No. 1 to Certificate of Approval – Air No. 4152-84KLK5 for the 3x3 Thermal Test Unit was approved and issued on January 7, 2011, approving alternative waste fuel types.

5.2 Design and Operations Report

The Design and Operations report was updated during the Demonstration Project in December 2007, June 2008, September 2008, November 2008, March 2009 and August 2009. Additional amendments not requiring a revision to the DOR were approved and issued as appended Notices to the Certificate of Approval.

No changes have been made to the DOR in the semi-annual reporting period. Revised financial assurance was approved and issued under Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ on January 13, 2011.

5.3 Spills Prevention and Contingency Plan

No changes have been made or approved by the MOE to the Plasco Trail Road Spills Preventions and Contingency Plan in this semi-annual reporting period.

5.4 Emergency Response Plan

The Plasco Trail Road Emergency Response Plan was updated in December 2010. No changes have been approved by the MOE since the last reporting period.

5.5 Closure Plan

The Director was notified in writing on January 31, 2011, that the approved Closure Plan had been implemented. A letter sent to the MOE identified modifications to the Closure Plan, in light of Plasco's intention to embark on the Environmental Screening process for the future operation of the Site. The modifications were acknowledged and accepted by the MOE, via email, on February 1, 2011.

6 SUMMARY OF COMPLAINTS

During the demonstration phase, no complaints have been received by Plasco Trail Road staff with regard to odours, dust and litter. The daily shift and site rounds inspections by plant personnel are beneficial in highlighting operational concerns in order to eliminate potential nuisance issues.

In the event that complaints were received, they would be documented and reported according to Condition 55 of the Provisional Certificate of Approval – Waste Disposal Site No. 3166-6TYMDZ.

7 ASSESSMENT OF PERFORMANCE OF DEMONSTRATION PROJECT

Upon review of the Demonstration Project (January 24, 2008 – January 21, 2011), Plasco Trail Road Inc. presents the following observations on the viability of the technology.

Plasco's Trail Road Facility (PTR) has clearly demonstrated that it is the only operating commercial-scale conversion facility in the world that converts municipal solid waste into a consistent syngas than can run reciprocating gas engines to generate electricity.

[Plasco Trail Road History](#)

Plasco entered into a partnership with the City of Ottawa in April 2006 for the construction of the commercial-scale demonstration facility across from the City's Trail Road Landfill. The facility has a small footprint (3 acres) and was built on an existing closed landfill space.

Plasco Trail Road was constructed for several purposes:

- Demonstrate Plasco's patented and patent-pending processes on a commercial scale;
- Produce positive environmental emissions data that will assist in the accelerated permitting of commercial projects;
- Incrementally improve the operational and environmental performance of subsystems;
- Validate Plasco's engineering models used for commercial designs; and,
- Commercial scale demonstration.

Plasco Trail Road was permitted under specific regulations that allowed operations and testing to proceed within defined limits and controls.

The PTR facility was operated on a scheduled/campaign basis which allowed for maintenance and modifications to be performed economically. With the completion of each operating campaign, the resultant data provided a logical platform based on solid engineering principles to improve Plasco's technology on a phase by phase basis. The data that resulted from this approach has allowed Plasco to proceed expeditiously in concerted engineering design to bring the technology to the commercial market.

[Summary of Demonstration Project Accomplishments](#)

Since the facility first began processing post-recycled MSW from the City of Ottawa in January 2008, operations at PTR have successfully demonstrated:

- Delivery of engine-quality syngas that supports 0.96 MWh/tonne of electricity production from waste of 14,200 MJ/tonne, at 30% water content and 18.8% inert material;
- Performance efficiencies at or above expectations;
- Superior environmental performance;
- Generation of electricity that can be sold to the local utility;
- Production of commercially acceptable vitrified slag; and,
- Water recovery and treatment that meets Ottawa sewer standards.

Demonstration of Original Purposes

As a result of the various operating campaigns that were executed during the demonstration period, many mechanical, process, and other impediments were discovered, evaluated and ultimately solved. One of the key variables that took some time to resolve was the ability of the technology to produce a stable and consistent quality synthesis gas that would fuel the Jenbacher reciprocating engines. Variations in syngas quality initially posed challenges to the constant operation of engines on MSW-derived syngas. While this may have been a relatively simple concept to understand, it required an extensive review of and revision to the MSW feed system, the ram feed system within the primary chamber of the gasifier and the logic that controlled its movement. It is noteworthy to identify this issue, because its ultimate resolution provided the platform upon which to stage a more efficient conversion configuration that will be at the core of Plasco's commercial facilities in the future.

The original MSW feed system and the converter's material movement system were significant contributing factors to the variability in the syngas quality. The entire fuel feed system to the converter was redesigned in 2008, incorporating the decoupling of the preparation equipment from the delivery equipment. A shredding/preparation line was created to eliminate choke points and what had been a frequent single point of failure. A vibratory feeder was also added to the redesigned MSW feed system for uniform distribution and delivery of the fuel to the converter. The steep drag chain on the feed system was replaced with a shallow-angle belt that was large enough to handle the required feed volume.

Numerous design configurations of the material movement system (ram feeders) in the converter were engineered and tested during the Demonstration period. Experimentation with every aspect of the process that may have affected gas consistency and quality were examined, evaluated and whenever possible practically applied within the gasifier. Adjustments were made to the MSW pile height, and the hole patterns and layout of the air boxes. Changes in the operating parameters and cycle pattern of the ram fingers were tried under rigorous test conditions which ultimately formed the basic logic for Plasco's new bottom grate design which will feature in the commercial design. These incremental changes and adjustments ultimately resulted in better and more consistent gas quality enabling the plant to run the engines at will.

The addition of the Carbon Recovery Vessel (CRV) and its subsystems in October 2008 greatly enhanced the quality of the syngas. The CRV was tested and modified several times during the Demonstration period. The installation of the reconditioned bottom section of the CRV-ash melter, with improved

design and tap hole configuration occurred in the fall of 2010. Further enhancements are planned for future operation in the commercial design.

As a final step, the syngas storage tank was modified to blend out any variations in the syngas quality generated by the movement of the feeding mechanism within the conversion system. The syngas fluctuations in quality improved as the syngas exits the storage tank to achieve a highly consistent gas flow to the engines, thus increasing engine operational reliability.

Typically one engine has been run on MSW-derived syngas during the Demonstration Project, but multi-engine operation has been demonstrated for tuning and control purposes. Three engines have run in parallel, although not all at full load, when sufficient syngas was available.

In the fall of 2010, Plasco installed selective catalytic reduction technology for the improved control of NO_x in conjunction with selective catalytic oxidation modules for CO and volatile organic compound (VOC) reduction.

Each of the support systems that were installed to complement the main focus of the technology were evaluated, tested and sometimes changed. These systems included the Gas Quality Control Suite, dry ash handling, slag management and other support elements within the facility.

Each successive improvement to the overall Plasco Conversion System led to an improvement in syngas quality, resulting in increased operating time for the engines. Engines operated for a total of 7.5 hours in 2008, 390 hours in 2009 and 541 hours in 2010.

The ultimate validation of the viability of the technology has been the ability of the system to generate consistent quality syngas that fuels the Jenbacher engines to produce electricity for sale. The continuous improvement of the process has resulted in the empirical demonstration of that case.

Over the course of the demonstration project, the Plasco Trail Road facility has processed 6,630 tonnes of MSW and generated 287 MWh of power.

Third Party Evaluation

Plasco's technology has been rigorously evaluated by several independent third party engineering firms. These firms have observed that the Plasco technology is viable and that the demonstration facility has proven that the core technology for converting and refining MSW into engine quality syngas is successful. These engineering studies have led to significant funding for the company to deploy its technology in the world wide waste management market.

In addition, Sustainable Development and Technology Canada declared the demonstration project to be a success.

Based on these third party reviews of historical production and availability data, three major modifications to the facility should be considered to better achieve targeted reliability, availability and production goals for commercial plants:

1. Redesign of converter bottom grate/material movement system.
 - While Plasco was successful in being able to generate engine quality gas for consistent operation, the resultant evaluation of the reliability of the original feed ram system required a completely new and more robust system be deployed for the commercial design. The new bottom grate was designed, constructed and tested under the harshest of operating conditions during the 3x3 operation period of November 2010 - January 2011. The results of that test, validated by an independent third party engineer verified that the new grate was fit for deployment in a commercial application.
2. Installation of the Integrated Conversion and Refining System (ICARS)
 - The conversion process design evolved during the Demonstration period although not in an energy efficient way. As a result Plasco has reconfigured the individual gasification components to close couple the vessels taking advantage of the existing equipment with some improvements in layout. This configuration is intended to be installed in 2011 following approval of the EA screening process.
3. Modification of the solid residue melter portion of the CRV
 - The design of the solid residue melter has seen multiple iterations due to the aggressive operating conditions of the vessel. Plasco engineering in conjunction with expert consulting engineers from the smelting industry have combined their efforts to produce a robust and reliable design. This reconditioned vessel with improved features will be installed and tested in conjunction with the ICARS installation.

The implementation of these improvements is expected to demonstrate a high probability of success in achieving commercial production and availability targets.

In light of the facility's success in the completion of a challenging availability run in November 2011, the excellent results from the source testing completed in December, and the improvements demonstrated in process control over the demonstration period, Plasco believes that it has successfully achieved the initial goals of the project with superior results.

In vindication of the empirical results from the Demonstration Facility as well as the third party evaluations by respected Independent Engineering Companies, Plasco continues to attract private equity investment from world renowned investment companies. At the time of writing, Plasco has raised in excess of \$200M of equity to enable the company to grow and enter the commercial market with its proprietary technology, The success of the Demonstration Facility was a significant and positive influence for the investment community in determining their equity stake in the commercial viability of the technology and Plasco's ability to execute.

8 RECOMMENDATIONS

Upon review of the semi-annual reporting period (August 1, 2010 – January 21, 2011) and the entire Demonstration Project (January 2008 – January 2011), Plasco Trail Road Inc. presents the following recommendations to minimize impacts from the proposed future operation of the facility and to improve future operations and monitoring programs:

- Reducing the purge time required for the sample line of the CEMS system;
- Change the ranges of the CEMS to better reflect the lower emissions generated for select compounds ;
- Installation of the Integrated Conversion and Refining System (ICARS) to improve the conversion efficiency of the Plasco process;
- Upgrades to the GQCS to process increased throughput;
- Installation of NO_x reduction technology at the Flare; and,
- Upgrades to the wastewater treatment system to improve reliability and functionality.



APPENDIX I
Waste Shipments to Plasco Trail Road

TABLE AI-1 Municipal Solid Waste Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
1-Jan-08					
2-Jan-08					
3-Jan-08					
4-Jan-08					
5-Jan-08					
6-Jan-08					
7-Jan-08					
8-Jan-08					
9-Jan-08					
10-Jan-08					
11-Jan-08					
12-Jan-08					
13-Jan-08					
14-Jan-08					
15-Jan-08					
16-Jan-08					
17-Jan-08					
18-Jan-08					
19-Jan-08					
20-Jan-08					
21-Jan-08					
22-Jan-08					
23-Jan-08					
24-Jan-08	MSW	15.94	0	15.94	0
25-Jan-08	MSW	4.18	2	18.12	0
26-Jan-08	MSW	0	2	16.12	0
27-Jan-08	MSW	0	0	16.12	0
28-Jan-08	MSW	0	0	0.00	16.12
29-Jan-08	MSW	0	0	0	0
30-Jan-08	MSW	0	0	0	0
31-Jan-08	MSW	26.19	5.875	20.32	0.00
1-Feb-08	MSW	0	5.875	14.44	0
2-Feb-08	MSW	0	0	14.44	0
3-Feb-08	MSW	0	0	14.44	0
4-Feb-08	MSW	0	0	0	14.5
5-Feb-08	MSW	25.40	0	25.4	0
6-Feb-08	MSW	22.60	0	48.00	0
7-Feb-08	MSW	10.15	24.63	33.52	0
8-Feb-08	MSW	0	0	0	33.52
9-Feb-08	MSW	0	0	0	0
10-Feb-08	MSW	0	0	0	0
11-Feb-08	MSW	0	0	0	0
12-Feb-08	MSW	0	0	0	0
13-Feb-08	MSW	18.93	0	18.93	0
14-Feb-08	MSW	9.05	0	27.98	0
15-Feb-08	MSW	9.25	3.69	14.94	18.6
16-Feb-08	MSW	0	0	14.94	0
17-Feb-08	MSW	0	0	14.94	0
18-Feb-08	MSW	0	3.69	3.69	7.56
19-Feb-08	MSW	0	3.69	0.00	0
20-Feb-08	MSW	0	0	0	0
21-Feb-08	MSW	0	0	0	0
22-Feb-08	MSW	9.07	0	9.07	0
23-Feb-08	MSW	0	9.021	0.049	0
24-Feb-08	MSW	0	0	0.049	0
25-Feb-08	MSW	0	0	0.049	0
26-Feb-08	MSW	27.16	0	25.579	1.63
27-Feb-08	MSW	0	7.559	18.02	0
28-Feb-08	MSW	0	0	18.02	0
29-Feb-08	MSW	0	0	0	18.02

TABLE AI-1 Municipal Solid Waste Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
1-Mar-08	MSW	0	0	0	0
2-Mar-08	MSW	0	0	0	0
3-Mar-08	MSW	0	0	0	0
4-Mar-08	MSW	0	0	0	0
5-Mar-08	MSW	0	0	0	0
6-Mar-08	MSW	0	0	0	0
7-Mar-08	MSW	0	0	0	0
8-Mar-08	MSW	0	0	0	0
9-Mar-08	MSW	0	0	0	0
10-Mar-08	MSW	0	0	0	0
11-Mar-08	MSW	0	0	0	0
12-Mar-08	MSW	0	0	0	0
13-Mar-08	MSW	9.45	0	9.45	0
14-Mar-08	MSW	4.54	0	3.97	10.02
15-Mar-08	MSW	0	0	3.97	0
16-Mar-08	MSW	0	0	3.97	0
17-Mar-08	MSW	20.98	0	18.63	6.32
18-Mar-08	MSW	0	5.44	13.19	0
19-Mar-08	MSW	0	0	13.19	0
20-Mar-08	MSW	0	0	0	13.19
21-Mar-08	MSW	0	0	0	0
22-Mar-08	MSW	0	0	0	0
23-Mar-08	MSW	0	0	0	0
24-Mar-08	MSW	0	0	0	0
25-Mar-08	MSW	8.05	0	8.05	0
26-Mar-08	MSW	10.51	8.4	10.16	0
27-Mar-08	MSW	43.31	47.6	5.87	0
28-Mar-08	MSW	34.21	8.3	23.72	8.06
29-Mar-08	MSW	0	0	0	23.72
30-Mar-08	MSW	0	0	0	0
31-Mar-08	MSW	0	0	0	0
1-Apr-08	MSW	31.83	0	31.83	0
2-Apr-08	MSW	32.44	10	45.11	9.16
3-Apr-08	MSW	0	24.37	20.74	0
4-Apr-08	MSW	66.57	5.63	73.89	7.79
5-Apr-08	MSW	0	0	68.26	5.63
6-Apr-08	MSW	0	0	68.26	0
7-Apr-08	MSW	0	33.56	23.57	11.13
8-Apr-08	MSW	35	3.13	55.44	0
9-Apr-08	MSW	0	0	55.44	0
10-Apr-08	MSW	0	0	12.95	42.49
11-Apr-08	MSW	15.79	0	28.74	0
12-Apr-08	MSW	0	0	28.74	0
13-Apr-08	MSW	0	0	28.74	0
14-Apr-08	MSW	0	3.625	25.115	0
15-Apr-08	MSW	35.31	12.2	48.225	0
16-Apr-08	MSW	0	11.195	20.74	16.29
17-Apr-08	MSW	0	0	20.74	0
18-Apr-08	MSW	0	0	0.36	20.38
19-Apr-08	MSW	0	0	0.36	0
20-Apr-08	MSW	0	0	0.36	0
21-Apr-08	MSW	0	0	0	0.36
22-Apr-08	MSW	0	0	0	0
23-Apr-08	MSW	34.88	20	14.88	0
24-Apr-08	MSW	99.16	40	74.04	0
25-Apr-08	MSW	0	0	74.04	0
26-Apr-08	MSW	0	0	61.91	12.13
27-Apr-08	MSW	0	0	41.93	19.98
28-Apr-08	MSW	0	0	41.93	0
29-Apr-08	MSW	32.75	16	58.68	0
30-Apr-08	MSW	61.38	16	65.66	38.4

TABLE AI-1 Municipal Solid Waste Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
1-May-08	MSW	0	0	65.66	0
2-May-08	MSW	0	0	46.2	19.46
3-May-08	MSW	33.53	0	79.73	0
4-May-08	MSW	0	0	79.73	0
5-May-08	MSW	29.26	28	80.99	0
6-May-08	MSW	33.58	23	91.57	0
7-May-08	MSW	0	4.67	86.9	0
8-May-08	MSW	0	0	47.91	38.99
9-May-08	MSW	0	0	38.91	9
10-May-08	MSW	0	0	38.91	0
11-May-08	MSW	0	0	38.91	0
12-May-08	MSW	0	0	38.91	0
13-May-08	MSW	0	0	38.91	0
14-May-08	MSW	0	0	38.91	0
15-May-08	MSW	0	0	38.91	0
16-May-08	MSW	0	0	34.93	3.98
17-May-08	MSW	0	0	29.26	5.67
18-May-08	MSW	0	0	29.26	0
19-May-08	MSW	0	0	29.26	0
20-May-08	MSW	69.32	7	91.58	0
21-May-08	MSW	0	0	56.27	35.31
22-May-08	MSW	0	0	56.27	0
23-May-08	MSW	0	0	37.92	18.35
24-May-08	MSW	32.05	0	69.97	0
25-May-08	MSW	0	0	69.97	0
26-May-08	MSW	36.03	14	92	0
27-May-08	MSW	0	13.96	42.19	35.85
28-May-08	MSW	0	0	42.19	0
29-May-08	MSW	0	9	33.19	0
30-May-08	MSW	0	0	29.26	3.93
31-May-08	MSW	0	0	29.26	0
1-Jun-08	MSW	0	0	29.26	0
2-Jun-08	MSW	11.73	0	6.17	34.82
3-Jun-08	MSW	32.15	3	35.32	0
4-Jun-08	MSW	32.74	52.995	15.065	0
5-Jun-08	MSW	32.11	0	31.025	16.15
6-Jun-08	MSW	0	0	27.645	3.38
7-Jun-08	MSW	0	0	27.645	0
8-Jun-08	MSW	0	0	27.645	0
9-Jun-08	MSW	65.52	32.9	32.125	28.14
10-Jun-08	MSW	63.62	14.95	76.955	3.84
11-Jun-08	MSW	36.39	18.9	94.445	0
12-Jun-08	MSW	30.43	17.55	79.435	27.89
13-Jun-08	MSW	0	7.425	42.08	29.93
14-Jun-08	MSW	0	0	17.51	24.57
15-Jun-08	MSW	0	0	17.51	0
16-Jun-08	MSW	61.62	8.4	54.65	16.08
17-Jun-08	MSW	35.04	13.3	76.39	0
18-Jun-08	MSW	6.91	13.3	70	0
19-Jun-08	MSW	0	11.84	48.94	9.22
20-Jun-08	MSW	0	0	36.45	12.49
21-Jun-08	MSW	0	0	36.45	0
22-Jun-08	MSW	0	0	36.45	0
23-Jun-08	MSW	9.85	0	26.53	19.77
24-Jun-08	MSW	0	0	14.56	11.97
25-Jun-08	MSW	0	0	11.41	3.15
26-Jun-08	MSW	0	0	11.41	0
27-Jun-08	MSW	0	0	0	11.41
28-Jun-08	MSW	0	0	0	0
29-Jun-08	MSW	0	0	0	0
30-Jun-08	MSW	45.28	0	45.28	0

TABLE AI-1 Municipal Solid Waste Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
1-Jul-08	MSW	0	0	45.28	0
2-Jul-08	MSW	0	0	45.28	0
3-Jul-08	MSW	35.18	0	45.04	35.42
4-Jul-08	MSW	32.89	60	4.61	13.32
5-Jul-08	MSW	0	0	2.8	1.81
6-Jul-08	MSW	0	0	2.8	0
7-Jul-08	MSW	77.73	35	45.53	0
8-Jul-08	MSW	0	39	6.53	0
9-Jul-08	MSW	50.66	27	30.19	0
10-Jul-08	MSW	33.9	0	0.12	63.97
11-Jul-08	MSW	58.97	0	59.09	0
12-Jul-08	MSW	0	0	53.55	5.54
13-Jul-08	MSW	0	3	50.55	0
14-Jul-08	MSW	53.02	18.93	70.12	14.52
15-Jul-08	MSW	0	27	0	43.12
16-Jul-08	MSW	0	0	0	0
17-Jul-08	MSW	0	0	0	0
18-Jul-08	MSW	0	0	0	0
19-Jul-08	MSW	0	0	0	0
20-Jul-08	MSW	0	0	0	0
21-Jul-08	MSW	10.86	0	10.86	0
22-Jul-08	MSW	0	0	10.86	0
23-Jul-08	MSW	0	0	10.86	0
24-Jul-08	MSW	0	0	10.86	0
25-Jul-08	MSW	0	0	10.86	0
26-Jul-08	MSW	0	0	10.86	0
27-Jul-08	MSW	0	0	10.86	0
28-Jul-08	MSW	0	0	6.6	4.26
29-Jul-08	MSW	0	0	6.6	0
30-Jul-08	MSW	0	0	6.6	0
31-Jul-08	MSW	0	0	6.6	0
1-Aug-08	MSW	0	0	6.6	0
2-Aug-08	MSW	0	0	6.6	0
3-Aug-08	MSW	0	0	6.6	0
4-Aug-08	MSW	0	0	6.6	0
5-Aug-08	MSW	0	0	6.6	0
6-Aug-08	MSW	12.93	0	19.53	0
7-Aug-08	MSW	0	0	19.53	0
8-Aug-08	MSW	0	0	8.29	11.24
9-Aug-08	MSW	0	0	8.29	0
10-Aug-08	MSW	0	0	8.29	0
11-Aug-08	MSW	10.98	0	19.27	0
12-Aug-08	MSW	0	0	19.27	0
13-Aug-08	MSW	0	0	8.93	10.34
14-Aug-08	MSW	0	0	8.93	0
15-Aug-08	MSW	0	0	8.93	0
16-Aug-08	MSW	0	0	8.93	0
17-Aug-08	MSW	0	0	8.93	0
18-Aug-08	MSW	35	0	41.73	2.2
19-Aug-08	MSW	0	0	41.73	0
20-Aug-08	MSW	0	0	41.73	0
21-Aug-08	MSW	0	0	41.73	0
22-Aug-08	MSW	0	0	41.73	0
23-Aug-08	MSW	0	0	41.73	0
24-Aug-08	MSW	0	0	41.73	0
25-Aug-08	MSW	0	0	41.73	0
26-Aug-08	MSW	0	0	41.73	0
27-Aug-08	MSW	0	0	41.73	0
28-Aug-08	MSW	0	0	41.73	0
29-Aug-08	MSW	0	0	41.73	0
30-Aug-08	MSW	0	0	41.73	0
31-Aug-08	MSW	0	0	41.73	0

TABLE AI-1 Municipal Solid Waste Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
1-Sep-08	MSW	0	0	41.73	0
2-Sep-08	MSW	0	0	37.92	3.81
3-Sep-08	MSW	0	0	37.92	0
4-Sep-08	MSW	0	0	37.92	0
5-Sep-08	MSW	0	0	37.92	0
6-Sep-08	MSW	0	0	37.92	0
7-Sep-08	MSW	0	0	37.92	0
8-Sep-08	MSW	10.12	0	35.21	12.83
9-Sep-08	MSW	0	0	35.21	0
10-Sep-08	MSW	0	0	35.21	0
11-Sep-08	MSW	5.92	0	32.06	9.07
12-Sep-08	MSW	0	0	32.06	0
13-Sep-08	MSW	0	0	19.59	12.47
14-Sep-08	MSW	0	0	19.59	0
15-Sep-08	MSW	69.37	0	88.96	0
16-Sep-08	MSW	0	20	68.96	0
17-Sep-08	MSW	0	18	50.96	0
18-Sep-08	MSW	0	15	21.09	14.87
19-Sep-08	MSW	59.21	24	56.3	0
20-Sep-08	MSW	0	0	56.3	0
21-Sep-08	MSW	0	0	56.3	0
22-Sep-08	MSW	33.9	0	44.23	45.97
23-Sep-08	MSW	0	23.34	20.89	0
24-Sep-08	MSW	0	0	0	20.89
25-Sep-08	MSW	0	0	0	0
26-Sep-08	MSW	0	0	0	0
27-Sep-08	MSW	0	0	0	0
28-Sep-08	MSW	0	0	0	0
29-Sep-08	MSW	0	0	0	0
30-Sep-08	MSW	0	0	0	0
1-Oct-08	MSW	0	0	0	0
2-Oct-08	MSW	13.68	0	13.68	0
3-Oct-08	MSW	59.99	0	73.67	0
4-Oct-08	MSW	0	17.6	56.07	0
5-Oct-08	MSW	0	9.47	46.6	0
6-Oct-08	MSW	0	0	0	46.6
7-Oct-08	MSW	11.38	0	11.38	0
8-Oct-08	MSW	0	0	11.38	0
9-Oct-08	MSW	0	0	0.29	11.09
10-Oct-08	MSW	0	0	0.29	0
11-Oct-08	MSW	0	0	0.29	0
12-Oct-08	MSW	0	0	0.29	0
13-Oct-08	MSW	0	0	0.29	0
14-Oct-08	MSW	55.26	8.68	46.87	0
15-Oct-08	MSW	21.52	53.32	15.07	0
16-Oct-08	MSW	90.13	35.96	63.82	5.42
17-Oct-08	MSW	0	13.06	0	50.76
18-Oct-08	MSW	19.57	0	19.57	0
19-Oct-08	MSW	0	0	19.57	0
20-Oct-08	MSW	68.79	39	49.36	0
21-Oct-08	MSW	0	0	36.94	12.42
22-Oct-08	MSW	0	5.02	30.82	1.1
23-Oct-08	MSW	50.59	6.9	38.68	35.83
24-Oct-08	MSW	0	0	0	38.68
25-Oct-08	MSW	0	0	0	0
26-Oct-08	MSW	0	0	0	0
27-Oct-08	MSW	0	0	0	0
28-Oct-08	MSW	0	0	0	0
29-Oct-08	MSW	0	0	0	0
30-Oct-08	MSW	0	0	0	0
31-Oct-08	MSW	9.07	0	9.07	0

TABLE AI-1 Municipal Solid Waste Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
1-Nov-08	MSW	0	0	9.07	0
2-Nov-08	MSW	0	0	9.07	0
3-Nov-08	MSW	93.53	24.885	77.715	0
4-Nov-08	MSW	0	20.856	56.859	0
5-Nov-08	MSW	0	20.919	25.23	10.71
6-Nov-08	MSW	0	0	0	25.23
7-Nov-08	MSW	0	0	0	0
8-Nov-08	MSW	0	0	0	0
9-Nov-08	MSW	0	0	0	0
10-Nov-08	MSW	0	0	0	0
11-Nov-08	MSW	0	0	0	0
12-Nov-08	MSW	0	0	0	0
13-Nov-08	MSW	10.81	0	10.81	0
14-Nov-08	MSW	128.08	0	138.89	0
15-Nov-08	MSW	0	0	138.89	0
16-Nov-08	MSW	0	0	138.89	0
17-Nov-08	MSW	35.93	24.465	74.645	75.71
18-Nov-08	MSW	57.42	55.92	33.275	42.87
19-Nov-08	MSW	38.38	4.635	67.02	0
20-Nov-08	MSW	0	0	0	67.02
21-Nov-08	MSW	0	0	0	0
22-Nov-08	MSW	0	0	0	0
23-Nov-08	MSW	0	0	0	0
24-Nov-08	MSW	0	0	0	0
25-Nov-08	MSW	7.38	0	7.38	0
26-Nov-08	MSW	0	0	7.38	0
27-Nov-08	MSW	57.84	0	65.22	0
28-Nov-08	MSW	103.84	13.84	155.22	0
29-Nov-08	MSW	0	30.275	124.945	0
30-Nov-08	MSW	0	34.6	90.345	0
1-Dec-08	MSW	0	3.845	32.23	54.27
2-Dec-08	MSW	0	0	0	32.23
3-Dec-08	MSW	0	0	0	0
4-Dec-08	MSW	0	0	0	0
5-Dec-08	MSW	0	0	0	0
6-Dec-08	MSW	0	0	0	0
7-Dec-08	MSW	0	0	0	0
8-Dec-08	MSW	10.32	0	10.32	0
9-Dec-08	MSW	0	0	10.32	0
10-Dec-08	MSW	30.07	0	40.39	0
11-Dec-08	MSW	14.32	12.87	41.84	0
12-Dec-08	MSW	27.4	13.86	55.38	0
13-Dec-08	MSW	0	0	55.38	0
14-Dec-08	MSW	0	0	55.38	0
15-Dec-08	MSW	48.2	22.77	50.67	30.14
16-Dec-08	MSW	0	9.19	41.48	0
17-Dec-08	MSW	0	0	41.48	0
18-Dec-08	MSW	0	4.95	0	36.53
19-Dec-08	MSW	0	0	0	0
20-Dec-08	MSW	0	0	0	0
21-Dec-08	MSW	0	0	0	0
22-Dec-08	MSW	0	0	0	0
23-Dec-08	MSW	0	0	0	0
24-Dec-08	MSW	0	0	0	0
25-Dec-08	MSW	0	0	0	0
26-Dec-08	MSW	0	0	0	0
27-Dec-08	MSW	0	0	0	0
28-Dec-08	MSW	0	0	0	0
29-Dec-08	MSW	0	0	0	0
30-Dec-08	MSW	0	0	0	0
31-Dec-08	MSW	0	0	0	0

TABLE AI-1 Municipal Solid Waste Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
1-Jan-09	MSW	0	0	0	0
2-Jan-09	MSW	0	0	0	0
3-Jan-09	MSW	0	0	0	0
4-Jan-09	MSW	0	0	0	0
5-Jan-09	MSW	0	0	0	0
6-Jan-09	MSW	59.55	0	59.55	0
7-Jan-09	MSW	0	12	47.55	0
8-Jan-09	MSW	0	6	41.55	0
9-Jan-09	MSW	60.7	0	56.04	46.21
10-Jan-09	MSW	0	0	56.04	0
11-Jan-09	MSW	0	21	35.04	0
12-Jan-09	MSW	35.98	10	61.02	0
13-Jan-09	MSW	0	0	32.27	28.75
14-Jan-09	MSW	6.81	0	39.08	0
15-Jan-09	MSW	19.26	12	46.34	0
16-Jan-09	MSW	0	10.97	0	35.37
17-Jan-09	MSW	28.74	0	28.74	0
18-Jan-09	MSW	0	0	28.74	0
19-Jan-09	MSW	29.32	0	58.06	0
20-Jan-09	MSW	25.43	5	51.14	27.35
21-Jan-09	MSW	30.12	15.92	65.34	0
22-Jan-09	MSW	0	5.68	22.25	37.41
23-Jan-09	MSW	4.22	0	3.77	22.7
24-Jan-09	MSW	0	0	3.77	0
25-Jan-09	MSW	0	0	3.77	0
26-Jan-09	MSW	33.38	0	32.87	4.28
27-Jan-09	MSW	31.35	5	59.22	0
28-Jan-09	MSW	0	23.67	35.55	0
29-Jan-09	MSW	0	0	0	35.55
30-Jan-09	MSW	65.69	0	65.69	0
31-Jan-09	MSW	0	25.4	40.29	0
1-Feb-09	MSW	0	20.3	19.99	0
2-Feb-09	MSW	6.83	5.11	0	21.71
3-Feb-09	MSW	0	0	0	0
4-Feb-09	MSW	0	0	0	0
5-Feb-09	MSW	0	0	0	0
6-Feb-09	MSW	33.69	0	33.69	0
7-Feb-09	MSW	0	0	33.69	0
8-Feb-09	MSW	0	16	18	0
9-Feb-09	MSW	68.11	23	52	10.59
10-Feb-09	MSW	33.48	26	60	0
11-Feb-09	MSW	0	14	46	0
12-Feb-09	MSW	0	0	8	37.52
13-Feb-09	MSW	0	0	0	8.38
14-Feb-09	MSW	0	0	0	0
15-Feb-09	MSW	0	0	0	0
16-Feb-09	MSW	0	0	0	0
17-Feb-09	MSW	32.28	15	17.28	0
18-Feb-09	MSW	31.92	0	49.2	0
19-Feb-09	MSW	0	5.88	43.32	0
20-Feb-09	MSW	34.6	18.62	37.33	21.97
21-Feb-09	MSW	0	3	34.33	0
22-Feb-09	MSW	0	0	34.33	0
23-Feb-09	MSW	0	0	5.79	28.54
24-Feb-09	MSW	32.54	0	38.33	0
25-Feb-09	MSW	34.84	7.7	65.4	0
26-Feb-09	MSW	0	23.9	41.5	0
27-Feb-09	MSW	35.375	35.2	24.9	16.83
28-Feb-09	MSW	0	0	24.9	0

TABLE AI-1 Municipal Solid Waste Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
1-Mar-09	MSW	0	0	24.9	0
2-Mar-09	MSW	8.75	0	8.7	24.92
3-Mar-09	MSW	0	0	8.7	0
4-Mar-09	MSW	33.05	0	41.8	0
5-Mar-09	MSW	25.33	19.71	47.4	0
6-Mar-09	MSW	34.3	20.25	31.9	29.56
7-Mar-09	MSW	0	31.95	0.0	0
8-Mar-09	MSW	0	0	0	0
9-Mar-09	MSW	0	0	0	0
10-Mar-09	MSW	35.02	0	35.02	0
11-Mar-09	MSW	68.86	10.8	93.1	0
12-Mar-09	MSW	0	18.0	75.1	0
13-Mar-09	MSW	32.39	23.1	39.5	44.95
14-Mar-09	MSW	0	0	39.5	0
15-Mar-09	MSW	0	0	39.5	0
16-Mar-09	MSW	0	0	0.0	39.46
17-Mar-09	MSW	37.03	0	37.0	0
18-Mar-09	MSW	0	9.8	27.2	0
19-Mar-09	MSW	0	0	0.4	26.8
20-Mar-09	MSW	9.75	0	10.2	0
21-Mar-09	MSW	0	0	10.2	0
22-Mar-09	MSW	0	0	10.2	0
23-Mar-09	MSW	0	0	0.0	10.18
24-Mar-09	MSW	9.26	0	9.3	0
25-Mar-09	MSW	0	0	9.3	0
26-Mar-09	MSW	69.48	14.3	64.5	0
27-Mar-09	MSW	0	23.5	37.0	4
28-Mar-09	MSW	0	21.4	15.7	0
29-Mar-09	MSW	0	15.7	0.0	0
30-Mar-09	MSW	100.26	37.25	63.01	0
31-Mar-09	MSW	69.01	55.13	76.89	0
1-Apr-09	MSW	0	55	21.89	0
2-Apr-09	MSW	0	4	17.89	0
3-Apr-09	MSW	103.72	14	107.61	0
4-Apr-09	MSW	0	29	78.61	0
5-Apr-09	MSW	0	36	42.61	0
6-Apr-09	MSW	32.08	5	69.69	0
7-Apr-09	MSW	75.77	40.56	68.43	36.47
8-Apr-09	MSW	0	0	0	68.43
9-Apr-09	MSW	0	0	0	0
10-Apr-09	MSW	0	0	0	0
11-Apr-09	MSW	0	0	0	0
12-Apr-09	MSW	0	0	0	0
13-Apr-09	MSW	0	0	0	0
14-Apr-09	MSW	0	0	0	0
15-Apr-09	MSW	0	0	0	0
16-Apr-09	MSW	0	0	0	0
17-Apr-09	MSW	18.95	0	18.95	0
18-Apr-09	MSW	0	0	18.95	0
19-Apr-09	MSW	0	0	18.95	0
20-Apr-09	MSW	0	0	18.95	0
21-Apr-09	MSW	30.32	0	22.15	27.12
22-Apr-09	MSW	62.23	18.83	65.55	0
23-Apr-09	MSW	19.38	39.543	42.307	3.08
24-Apr-09	MSW	133.72	20.175	151.202	4.65
25-Apr-09	MSW	0	27.169	124.033	0
26-Apr-09	MSW	0	9.415	114.618	0
27-Apr-09	MSW	0	37.66	37.488	39.47
28-Apr-09	MSW	33.3	33.087	37.701	0
29-Apr-09	MSW	30.44	25.286	29.575	13.28
30-Apr-09	MSW	18.96	29.175	13.25	6.11

TABLE AI-1 Municipal Solid Waste Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
1-May-09	MSW	0	0	0	13.25
2-May-09	MSW	0	0	0	0
3-May-09	MSW	0	0	0	0
4-May-09	MSW	0	0	0	0
5-May-09	MSW	0	0	0	0
6-May-09	MSW	33.01	0	30.72	2.29
7-May-09	MSW	47.19	35.535	42.375	0
8-May-09	MSW	0	20.065	16.02	6.29
9-May-09	MSW	0	0	16.02	0
10-May-09	MSW	0	0	16.02	0
11-May-09	MSW	0	0	0	16.02
12-May-09	MSW	0	0	0	0
13-May-09	MSW	33.27	0	33.27	0
14-May-09	MSW	31.77	51	14.04	0
15-May-09	MSW	0	10.23	0	3.81
16-May-09	MSW	0	0	0	0
17-May-09	MSW	0	0	0	0
18-May-09	MSW	0	0	0	0
19-May-09	MSW	70.27	0	70.27	0
20-May-09	MSW	0	0	70.27	0
21-May-09	MSW	0	0	45.46	24.81
22-May-09	MSW	34.13	0	45.63	33.96
23-May-09	MSW	0	0	45.63	0
24-May-09	MSW	0	0	45.63	0
25-May-09	MSW	33.35	28.48	50.5	0
26-May-09	MSW	31.69	21.36	60.83	0
27-May-09	MSW	32.01	53.4	39.44	0
28-May-09	MSW	0	0	30.07	9.37
29-May-09	MSW	26.34	40.05	16.36	0
30-May-09	MSW	0	6.36	10	0
31-May-09	MSW	0	0	10	0
1-Jun-09	MSW	71	38.22	42.78	0
2-Jun-09	MSW	0	3	32.78	7
3-Jun-09	MSW	0	0	32.78	0
4-Jun-09	MSW	9.21	0	0	41.99
5-Jun-09	MSW	35.22	0	35.22	0
6-Jun-09	MSW	0	0	35.22	0
7-Jun-09	MSW	0	0	35.22	0
8-Jun-09	MSW	33.24	0	30.95	37.51
9-Jun-09	MSW	31.61	37	25.56	0
10-Jun-09	MSW	31.16	25	21.4	10.32
11-Jun-09	MSW	0	0	13.86	7.54
12-Jun-09	MSW	106.87	25.99	94.74	0
13-Jun-09	MSW	0	0	94.74	0
14-Jun-09	MSW	0	0	94.74	0
15-Jun-09	MSW	0	0	3.82	90.92
16-Jun-09	MSW	0	0	0	3.82
17-Jun-09	MSW	0	0	0	0
18-Jun-09	MSW	0	0	0	0
19-Jun-09	MSW	12.24	0	12.24	0
20-Jun-09	MSW	0	0	12.24	0
21-Jun-09	MSW	0	0	12.24	0
22-Jun-09	MSW	32.36	0	44.6	0
23-Jun-09	MSW	37.5	34	48.1	0
24-Jun-09	MSW	0	28.09	20.01	0
25-Jun-09	MSW	26.74	0	46.75	0
26-Jun-09	MSW	0	0	0	46.75
27-Jun-09	MSW	0	0	0	0
28-Jun-09	MSW	0	0	0	0
29-Jun-09	MSW	0	0	0	0
30-Jun-09	MSW	0	0	0	0

TABLE AI-1 Municipal Solid Waste Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
1-Jul-09	MSW	0	0	0	0
2-Jul-09	MSW	0	0	0	0
3-Jul-09	MSW	68.44	0	68.44	0
4-Jul-09	MSW	0	0	68.44	0
5-Jul-09	MSW	0	0	68.44	0
6-Jul-09	MSW	9.21	29	44.37	4.28
7-Jul-09	MSW	49.75	41	47.74	5.38
8-Jul-09	MSW	0	0	43.82	3.92
9-Jul-09	MSW	26.98	40	30.80	0
10-Jul-09	MSW	33.33	30	30.39	3.74
11-Jul-09	MSW	0	0	30.39	0
12-Jul-09	MSW	0	0	30.39	0
13-Jul-09	MSW	0	0	30.39	0
14-Jul-09	MSW	33.7	0	35.15	28.94
15-Jul-09	MSW	35.34	33.70	36.79	0
16-Jul-09	MSW	0	20.16	16.24	0
17-Jul-09	MSW	0	0	0.00	16.24
18-Jul-09	MSW	0	0	0.00	0
19-Jul-09	MSW	0	0	0.00	0
20-Jul-09	MSW	0	0	0.00	0
21-Jul-09	MSW	38.26	0	38.26	0
22-Jul-09	MSW	57.99	46.63	49.62	0
23-Jul-09	MSW	0	0	49.62	0
24-Jul-09	MSW	4.8	0	0.00	54.42
25-Jul-09	MSW	0	0	0.00	0
26-Jul-09	MSW	0	0	0.00	0
27-Jul-09	MSW	0	0	0.00	0
28-Jul-09	MSW	15.71	0	11.46	4.25
29-Jul-09	MSW	24.3	0	35.76	0
30-Jul-09	MSW	8.77	17	27.53	0
31-Jul-09	MSW	0	14.27	0.00	13.5
1-Aug-09	MSW	0	0	0	0
2-Aug-09	MSW	0	0	0	0
3-Aug-09	MSW	0	0	0	0
4-Aug-09	MSW	48.9	13.7	35	0
5-Aug-09	MSW	26.08	28.3	30.96	2
6-Aug-09	MSW	0	28.3	2.62	0
7-Aug-09	MSW	11.18	0	11.18	2.62
8-Aug-09	MSW	0	0	11.18	0
9-Aug-09	MSW	0	0	11.18	0
10-Aug-09	MSW	0	0	11.18	0
11-Aug-09	MSW	35.08	16.2	30	0
12-Aug-09	MSW	31.57	26.5	35.21	0
13-Aug-09	MSW	0	0	0	35.21
14-Aug-09	MSW	10.77	0	10.77	0
15-Aug-09	MSW	0	0	10.77	0
16-Aug-09	MSW	0	0	10.77	0
17-Aug-09	MSW	11.02	0	22	0
18-Aug-09	MSW	5.77	0.0	28	0
19-Aug-09	MSW	0	18.2	9.4	0
20-Aug-09	MSW	35.5	25.3	19.57	0
21-Aug-09	MSW	0	0	0	19.57
22-Aug-09	MSW	0	0	0	0
23-Aug-09	MSW	0	0	0	0
24-Aug-09	MSW	12.71	0	12.71	0
25-Aug-09	MSW	0	0	12.71	0
26-Aug-09	MSW	0	0	0	13.04
27-Aug-09	MSW	0	0	0	0
28-Aug-09	MSW	0	0	0	0
29-Aug-09	MSW	0	0	0	0
30-Aug-09	MSW	0	0	0	0
31-Aug-09	MSW	8.19	0	8.19	0

TABLE AI-1 Municipal Solid Waste Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
1-Sep-09	MSW	0	0	8.19	0
2-Sep-09	MSW	27.74	0	35.93	0
3-Sep-09	MSW	0	20	15.93	0
4-Sep-09	MSW	0	15.93	0	0
5-Sep-09	MSW	0	0	0	0
6-Sep-09	MSW	0	0	0	0
7-Sep-09	MSW	0	0	0	0
8-Sep-09	MSW	0	0	0	0
9-Sep-09	MSW	0	0	0	0
10-Sep-09	MSW	0	0	0	0
11-Sep-09	MSW	0	0	0	0
12-Sep-09	MSW	39.86	0	0	0
13-Sep-09	MSW	0	0	39.76	0
14-Sep-09	MSW	26.93	32.7	27.38	6.58
15-Sep-09	MSW	22.94	23.7	26.58	0
16-Sep-09	MSW	29.09	26.3	25.11	4.24
17-Sep-09	MSW	0	19.9	5.22	0
18-Sep-09	MSW	0	0	0	5.22
19-Sep-09	MSW	0	0	0	0
20-Sep-09	MSW	0	0	0	0
21-Sep-09	MSW	21.49	0	21.49	0
22-Sep-09	MSW	24.23	18.5	23.02	4.2
23-Sep-09	MSW	35.9	20.1	38.84	0
24-Sep-09	MSW	0	25.9	12.95	0
25-Sep-09	MSW	0	0	0	12.95
26-Sep-09	MSW	0	0	0	0
27-Sep-09	MSW	0	0	0	0
28-Sep-09	MSW	28.02	0	28.02	0
29-Sep-09	MSW	27.8	41.6	11.4	2.82
30-Sep-09	MSW	33.58	31.6	13.38	0
1-Oct-09	MSW	0	1.2	0	12.14
2-Oct-09	MSW	0	0	0	0
3-Oct-09	MSW	0	0	0	0
4-Oct-09	MSW	0	0	0	0
5-Oct-09	MSW	0	0	0	0
6-Oct-09	MSW	0	0	0	0
7-Oct-09	MSW	0	0	0	0
8-Oct-09	MSW	0	0	0	0
9-Oct-09	MSW	0	0	0	0
10-Oct-09	MSW	0	0	0	0
11-Oct-09	MSW	0	0	0	0
12-Oct-09	MSW	0	0	0	0
13-Oct-09	MSW	0	0	0	0
14-Oct-09	MSW	9.59	0	9.59	0
15-Oct-09	MSW	0	0	0	0
16-Oct-09	MSW	0	0	0	10.74
17-Oct-09	MSW	0	0	0	0
18-Oct-09	MSW	0	0	0	0
19-Oct-09	MSW	0	0	0	0
20-Oct-09	MSW	35.64	0	35.64	0
21-Oct-09	MSW	18.86	9.9	35.02	9.59
22-Oct-09	MSW	63.01	38	60.05	0
23-Oct-09	MSW	41.74	42.7	44.34	14.78
24-Oct-09	MSW	0	6.2	19.2	18.9
25-Oct-09	MSW	0	0	19.2	0
26-Oct-09	MSW	60.12	0	79.32	2.83
27-Oct-09	MSW	8.04	61	26.35	0
28-Oct-09	MSW	0	10.9	0	15.45
29-Oct-09	MSW	69.91	0	69.91	0
30-Oct-09	MSW	70.9	0	120.29	20.54
31-Oct-09	MSW	0	33.5	60.89	25.88

TABLE AI-1 Municipal Solid Waste Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
1-Nov-09	MSW	32.31	0	0	32.31
2-Nov-09	MSW	0	0	0	0
3-Nov-09	MSW	0	0	0	0
4-Nov-09	MSW	0	0	0	0
5-Nov-09	MSW	0	0	0	0
6-Nov-09	MSW	0	0	0	0
7-Nov-09	MSW	0	0	0	0
8-Nov-09	MSW	0	0	0	0
9-Nov-09	MSW	30.75	0	30.75	0
10-Nov-09	MSW	45.25	34.4	36.72	4.88
11-Nov-09	MSW	40.46	29	43.96	4.26
12-Nov-09	MSW	46.02	32.2	54.48	3.34
13-Nov-09	MSW	0	0	32.52	21.96
14-Nov-09	MSW	0	0	20.36	12.16
15-Nov-09	MSW	0	0	20.36	0
16-Nov-09	MSW	33.47	0	26.92	26.91
17-Nov-09	MSW	39.13	0	57.64	8.41
18-Nov-09	MSW	45.53	20.8	82.35	0
19-Nov-09	MSW	39.38	35.6	77	9.14
20-Nov-09	MSW	0	21.9	9.97	45.16
21-Nov-09	MSW	0	0	9.97	0
22-Nov-09	MSW	0	0	9.97	0
23-Nov-09	MSW	0	0	0	10.97
24-Nov-09	MSW	10.1	0	10.1	0
25-Nov-09	MSW	0	0	10.1	0
26-Nov-09	MSW	0	0	0	10.42
27-Nov-09	MSW	0	0	0	0
28-Nov-09	MSW	0	0	0	0
29-Nov-09	MSW	0	0	0	0
30-Nov-09	MSW	0	0	0	0
1-Dec-09	MSW	0	0	0	0
2-Dec-09	MSW	41.06	0	33	8.06
3-Dec-09	MSW	41.9	33	41.9	0
4-Dec-09	MSW	0	27.6	0	14.33
5-Dec-09	MSW	0	0	0	0
6-Dec-09	MSW	0	0	0	0
7-Dec-09	MSW	28.26	0	0	4.62
8-Dec-09	MSW	36.65	20.6	39.65	0
9-Dec-09	MSW	9.94	38.9	10.7	0
10-Dec-09	MSW	0	0	0	10.7
11-Dec-09	MSW	0	0	0	0
12-Dec-09	MSW	0	0	0	0
13-Dec-09	MSW	0	0	0	0
14-Dec-09	MSW	0	0	0	0
15-Dec-09	MSW	50.01	0	50.1	0
16-Dec-09	MSW	0	0	2.54	47.47
17-Dec-09	MSW	0	0	0	2.33
18-Dec-09	MSW	0	0	0	0
19-Dec-09	MSW	0	0	0	0
20-Dec-09	MSW	0	0	0	0
21-Dec-09	MSW	0	0	0	0
22-Dec-09	MSW	0	0	0	0
23-Dec-09	MSW	0	0	0	0
24-Dec-09	MSW	0	0	0	0
25-Dec-09	MSW	0	0	0	0
26-Dec-09	MSW	0	0	0	0
27-Dec-09	MSW	0	0	0	0
28-Dec-09	MSW	0	0	0	0
29-Dec-09	MSW	0	0	0	0
30-Dec-09	MSW	0	0	0	0
31-Dec-09	MSW	0	0	0	0

TABLE AI-1 Municipal Solid Waste Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
1-Jan-10	MSW	0	0	0	0
2-Jan-10	MSW	0	0	0	0
3-Jan-10	MSW	0	0	0	0
4-Jan-10	MSW	0	0	0	0
5-Jan-10	MSW	0	0	0	0
6-Jan-10	MSW	39.93	0	39.93	0
7-Jan-10	MSW	38.23	32	42.01	4.17
8-Jan-10	MSW	23.93	25.1	36.43	4.38
9-Jan-10	MSW	0	9.8	26.66	0
10-Jan-10	MSW	0	0	26.66	0
11-Jan-10	MSW	0	0	0	26.658
12-Jan-10	MSW	23.17	0	23.17	0
13-Jan-10	MSW	0	0	21.08	2.09
14-Jan-10	MSW	19.99	25.3	15.74	0
15-Jan-10	MSW	7.57	10.4	11.23	1.68
16-Jan-10	MSW	0	0	11.23	0
17-Jan-10	MSW	0	0	11.23	0
18-Jan-10	MSW	0	0	0	11.23
19-Jan-10	MSW	36.95	0	36.95	0
20-Jan-10	MSW	38.35	28.5	36.35	10.48
21-Jan-10	MSW	9.99	36.3	10	0
22-Jan-10	MSW	0	0	10	10
23-Jan-10	MSW	0	0	0	0
24-Jan-10	MSW	0	0	0	0
25-Jan-10	MSW	0	0	0	0
26-Jan-10	MSW	0	0	0	0
27-Jan-10	MSW	0	0	0	0
28-Jan-10	MSW	0	0	0	0
29-Jan-10	MSW	0	0	0	0
30-Jan-10	MSW	0	0	0	0
31-Jan-10	MSW	0	0	0	0
1-Feb-10	MSW	56.83	0	56.83	
2-Feb-10	MSW	55.46	30	70.78	11.54
3-Feb-10	MSW	63.72	37.7	85.93	10.88
4-Feb-10	MSW	0	21	50.49	14.49
5-Feb-10	MSW	18.48	47.1	10.97	10.87
6-Feb-10	MSW	0	0	10.97	0
7-Feb-10	MSW	0	0	10.97	0
8-Feb-10	MSW	0	0	-0.07	11.04
9-Feb-10	MSW	60.75	0	60.75	0
10-Feb-10	MSW	62.77	19.4	89.48	14.64
11-Feb-10	MSW	0	14.7	74.78	0
12-Feb-10	MSW	0	0	0	75.07
13-Feb-10	MSW	0	0	0	0
14-Feb-10	MSW	0	0	0	0
15-Feb-10	MSW	0	0	0	0
16-Feb-10	MSW	0	0	0	0
17-Feb-10	MSW	0	0	0	0
18-Feb-10	MSW	0	0	0	0
19-Feb-10	MSW	0	0	0	0
20-Feb-10	MSW	0	0	0	0
21-Feb-10	MSW	0	0	0	0
22-Feb-10	MSW	0	0	0	0
23-Feb-10	MSW	0	0	0	0
24-Feb-10	MSW	0	0	0	0
25-Feb-10	MSW	0	0	0	0
26-Feb-10	MSW	0	0	0	0
27-Feb-10	MSW	0	0	0	0
28-Feb-10	MSW	0	0	0	0
1-Mar-10	MSW	0	0	0	0
2-Mar-10	MSW	0	0	0	0
3-Mar-10	MSW	0	0	0	0
4-Mar-10	MSW	0	0	0	0
5-Mar-10	MSW	0	0	0	0

TABLE AI-1 Municipal Solid Waste Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
6-Mar-10	MSW	0	0	0	0
7-Mar-10	MSW	0	0	0	0
8-Mar-10	MSW	0	0	0	0
9-Mar-10	MSW	0	0	0	0
10-Mar-10	MSW	0	0	0	0
11-Mar-10	MSW	0	0	0	0
12-Mar-10	MSW	0	0	0	0
13-Mar-10	MSW	0	0	0	0
14-Mar-10	MSW	0	0	0	0
15-Mar-10	MSW	0	0	0	0
16-Mar-10	MSW	0	0	0	0
17-Mar-10	MSW	71.39	0	71.39	0
18-Mar-10	MSW	60.38	46.43	60.38	24.95
19-Mar-10	MSW	65.35	21.65	78.12	25.96
20-Mar-10	MSW	0	0	78.12	0
21-Mar-10	MSW	0	0	78.12	0
22-Mar-10	MSW	0	0	0	78.12
23-Mar-10	MSW	0	0	0	0
24-Mar-10	MSW	0	0	0	0
25-Mar-10	MSW	0	0	0	0
26-Mar-10	MSW	76.43	0	76.43	0
27-Mar-10	MSW	0	0	76.43	0
28-Mar-10	MSW	0	0	76.43	0
29-Mar-10	MSW	40.23	0	75.61	41.04
30-Mar-10	MSW	57.26	23.31	84.21	25.35
31-Mar-10	MSW	58.68	45.39	47.75	49.75
1-Apr-10	MSW	0	5.89	0	41.86
2-Apr-10	MSW	0	0	0	0
3-Apr-10	MSW	39.48	0	39.48	0
4-Apr-10	MSW	0	0	39.48	0
5-Apr-10	MSW	0	0	39.48	0
6-Apr-10	MSW	55.45	0	74.1	20.83
7-Apr-10	MSW	10.6	26.44	20.59	37.67
8-Apr-10	MSW	0	0	0	20.59
9-Apr-10	MSW	0	0	0	0
10-Apr-10	MSW	0	0	0	0
11-Apr-10	MSW	0	0	0	0
12-Apr-10	MSW	0	0	0	0
13-Apr-10	MSW	9.01	0	9.01	0
14-Apr-10	MSW	69.9	0	76.98	1.98
15-Apr-10	MSW	52.97	42.8	56.85	30.3
16-Apr-10	MSW	57.45	28.39	65.03	20.88
17-Apr-10	MSW	0	0	65.03	0
18-Apr-10	MSW	0	0	65.03	0
19-Apr-10	MSW	0	0	30.61	34.42
20-Apr-10	MSW	0	0	-1.01	31.62
21-Apr-10	MSW	0	0	0	0
22-Apr-10	MSW	0	0	0	0
23-Apr-10	MSW	0	0	0	0
24-Apr-10	MSW	0	0	0	0
25-Apr-10	MSW	0	0	0	0
26-Apr-10	MSW	61.44	0	61.44	0
27-Apr-10	MSW	59.2	0	110.87	9.77
28-Apr-10	MSW	0	33.66	77.21	0
29-Apr-10	MSW	36.77	27.21	50	36.27
30-Apr-10	MSW	0	0	26.66	23.34
1-May-10	MSW	0	0	26.66	0
2-May-10	MSW	0	0	26.66	0
3-May-10	MSW	0	0	0	26.66
4-May-10	MSW	0	0	0	0
5-May-10	MSW	64.23	0	64.23	0
6-May-10	MSW	8.58	43.73	29.08	0
7-May-10	MSW	0	0	0	29.08
8-May-10	MSW	0	0	0	0

TABLE AI-1 Municipal Solid Waste Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
9-May-10	MSW	0	0	0	0
10-May-10	MSW	0	0	0	0
11-May-10	MSW	0	0	0	0
12-May-10	MSW	0	0	0	0
13-May-10	MSW	0	0	0	0
14-May-10	MSW	0	0	0	0
15-May-10	MSW	0	0	0	0
16-May-10	MSW	0	0	0	0
17-May-10	MSW	0	0	0	0
18-May-10	MSW	54.87	0	54.87	0
19-May-10	MSW	28.85	0	76.23	7.49
20-May-10	MSW	19.77	36.97	53.34	5.69
21-May-10	MSW	0	28.75	0	24.59
22-May-10	MSW	0	0	0	0
23-May-10	MSW	0	0	0	0
24-May-10	MSW	0	0	0	0
25-May-10	MSW	0	0	0	0
26-May-10	MSW	0	0	0	0
27-May-10	MSW	0	0	0	0
28-May-10	MSW	0	0	0	0
29-May-10	MSW	0	0	0	0
30-May-10	MSW	0	0	0	0
31-May-10	MSW	0	0	0	0
1-Jun-10	MSW	0	0	0	0
2-Jun-10	MSW	0	0	0	0
3-Jun-10	MSW	0	0	0	0
4-Jun-10	MSW	0	0	0	0
5-Jun-10	MSW	0	0	0	0
6-Jun-10	MSW	0	0	0	0
7-Jun-10	MSW	0	0	0	0
8-Jun-10	MSW	0	0	0	0
9-Jun-10	MSW	0	0	0	0
10-Jun-10	MSW	0	0	0	0
11-Jun-10	MSW	0	0	0	0
12-Jun-10	MSW	0	0	0	0
13-Jun-10	MSW	0	0	0	0
14-Jun-10	MSW	0	0	0	0
15-Jun-10	MSW	63.65	0	63.65	0
16-Jun-10	MSW	55.14	17.4	101.36	0
17-Jun-10	MSW	0	39.5	49.66	12.15
18-Jun-10	MSW	0	22.5	0	27.12
19-Jun-10	MSW	0	0	0	0
20-Jun-10	MSW	0	0	0	0
21-Jun-10	MSW	10.64	0	10.64	0
22-Jun-10	MSW	51.97	0	62.61	0
23-Jun-10	MSW	30.03	38.03	46.71	7.9
24-Jun-10	MSW	16.87	25.7	37.88	0
25-Jun-10	MSW	0	0	0	37.88
26-Jun-10	MSW	0	0	0	0
27-Jun-10	MSW	0	0	0	0
28-Jun-10	MSW	66.3	33.16	33.14	0
29-Jun-10	MSW	40.23	7.89	48.31	17.17
30-Jun-10	MSW	0	15	33.11	0
1-Jul-10	MSW	0	0	33.11	0
2-Jul-10	MSW	0	0	0	33.31
3-Jul-10	MSW	0	0	0	0
4-Jul-10	MSW	0	0	0	0
5-Jul-10	MSW	0	0	0	0
6-Jul-10	MSW	0	0	0	0
7-Jul-10	MSW	0	0	0	0
8-Jul-10	MSW	0	0	0	0
9-Jul-10	MSW	0	0	0	0
10-Jul-10	MSW	0	0	0	0
11-Jul-10	MSW	0	0	0	0

TABLE AI-1 Municipal Solid Waste Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
12-Jul-10	MSW	58.09	0	0	0
13-Jul-10	MSW	43.86	25.76	59.26	16.93
14-Jul-10	MSW	0	0	0	59.26
15-Jul-10	MSW	0	0	0	0
16-Jul-10	MSW	0	0	0	0
17-Jul-10	MSW	0	0	0	0
18-Jul-10	MSW	0	0	0	0
19-Jul-10	MSW	0	0	0	0
20-Jul-10	MSW	0	0	0	0
21-Jul-10	MSW	0	0	0	0
22-Jul-10	MSW	0	0	0	0
23-Jul-10	MSW	0	0	0	0
24-Jul-10	MSW	0	0	0	0
25-Jul-10	MSW	0	0	0	0
26-Jul-10	MSW	41.36	0	41.36	0
27-Jul-10	MSW	35.41	0	62.06	14.71
28-Jul-10	MSW	36.92	29.27	69.71	0
29-Jul-10	MSW	16.76	24.55	31.04	30.88
30-Jul-10	MSW	0	0	0	31.04
31-Jul-10	MSW	0	0	0	0
1-Aug-10	MSW	0	0	0	0
2-Aug-10	MSW	0	0	0	0
3-Aug-10	MSW	0	0	0	0
4-Aug-10	MSW	0	0	0	0
5-Aug-10	MSW	0	0	0	0
6-Aug-10	MSW	0	0	0	0
7-Aug-10	MSW	0	0	0	0
8-Aug-10	MSW	0	0	0	0
9-Aug-10	MSW	62.13	0	62.13	0
10-Aug-10	MSW	60.52	27.49	74.63	20.53
11-Aug-10	MSW	30.1	33.22	51.11	20.35
12-Aug-10	MSW	0	26.92	24.19	0
13-Aug-10	MSW	0	0	0.00	24.24
14-Aug-10	MSW	0	0	0	0
15-Aug-10	MSW	0	0	0	0
16-Aug-10	MSW	0	0	0	0
17-Aug-10	MSW	0	0	0	0
18-Aug-10	MSW	0	0	0	0
19-Aug-10	MSW	0	0	0	0
20-Aug-10	MSW	0	0	0	0
21-Aug-10	MSW	0	0	0	0
22-Aug-10	MSW	0	0	0	0
23-Aug-10	MSW	0	0	0	0
24-Aug-10	MSW	0	0	0	0
25-Aug-10	MSW	0	0	0	0
26-Aug-10	MSW	0	0	0	0
27-Aug-10	MSW	0	0	0	0
28-Aug-10	MSW	0	0	0	0
29-Aug-10	MSW	0	0	0	0
30-Aug-10	MSW	0	0	0	0
31-Aug-10	MSW	0	0	0	0
01-Sep-10	MSW	0	0	0	0
02-Sep-10	MSW	0	0	0	0
03-Sep-10	MSW	0	0	0	0
04-Sep-10	MSW	0	0	0	0
05-Sep-10	MSW	0	0	0	0
06-Sep-10	MSW	0	0	0	0
07-Sep-10	MSW	0	0	0	0
08-Sep-10	MSW	0	0	0	0
09-Sep-10	MSW	0	0	0	0
10-Sep-10	MSW	0	0	0	0
11-Sep-10	MSW	0	0	0	0
12-Sep-10	MSW	0	0	0	0
13-Sep-10	MSW	0	0	0	0

TABLE AI-1 Municipal Solid Waste Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
14-Sep-10	MSW	0	0	0	0
15-Sep-10	MSW	0	0	0	0
16-Sep-10	MSW	0	0	0	0
17-Sep-10	MSW	0	0	0	0
18-Sep-10	MSW	0	0	0	0
19-Sep-10	MSW	0	0	0	0
20-Sep-10	MSW	0	0	0	0
21-Sep-10	MSW	0	0	0	0
22-Sep-10	MSW	0	0	0	0
23-Sep-10	MSW	0	0	0	0
24-Sep-10	MSW	0	0	0	0
25-Sep-10	MSW	0	0	0	0
26-Sep-10	MSW	0	0	0	0
27-Sep-10	MSW	0	0	0	0
28-Sep-10	MSW	0	0	0	0
29-Sep-10	MSW	0	0	0	0
30-Sep-10	MSW	0	0	0	0
01-Oct-10	MSW	0	0	0	0
02-Oct-10	MSW	0	0	0	0
03-Oct-10	MSW	0	0	0	0
04-Oct-10	MSW	0	0	0	0
05-Oct-10	MSW	0	0	0	0
06-Oct-10	MSW	0	0	0	0
07-Oct-10	MSW	0	0	0	0
08-Oct-10	MSW	0	0	0	0
09-Oct-10	MSW	0	0	0	0
10-Oct-10	MSW	0	0	0	0
11-Oct-10	MSW	0	0	0	0
12-Oct-10	MSW	30.89	0	29.01	1.88
13-Oct-10	MSW	62.35	0	91.36	0
14-Oct-10	MSW	0	51.92	27.09	12.35
15-Oct-10	MSW	82.85	26.59	80.15	3.2
16-Oct-10	MSW	32.58	17.09	82.8	12.83
17-Oct-10	MSW	0	23.43	59.37	0
18-Oct-10	MSW	20.97	14.05	62.6	3.69
19-Oct-10	MSW	32.18	15.03	46.25	33.5
20-Oct-10	MSW	51.37	31.52	61.62	4.48
21-Oct-10	MSW	62.44	13.09	95.28	15.69
22-Oct-10	MSW	0	27.64	23.05	44.59
23-Oct-10	MSW	0	0	23.05	0
24-Oct-10	MSW	0	0	23.05	0
25-Oct-10	MSW	0	0	0	23.05
26-Oct-10	MSW	68.04	0	68.06	0
27-Oct-10	MSW	0	0	54.62	13.44
28-Oct-10	MSW	53.64	0	108.26	0
29-Oct-10	MSW	50.58	52.1	92.92	13.82
30-Oct-10	MSW	0	22.1	70.82	0
31-Oct-10	MSW	0	55.759	15.06	0
01-Nov-10	MSW	74.38	63.93	19.64	5.87
02-Nov-10	MSW	73.68	0	78.22	15.1
03-Nov-10	MSW	32.25	29.94	80.53	0
04-Nov-10	MSW	88.13	48.21	106.02	14.43
05-Nov-10	MSW	94.02	44.15	141.98	13.91
06-Nov-10	MSW	0	26.52	98.42	17.04
07-Nov-10	MSW	0	51.82	46.6	0
08-Nov-10	MSW	74.39	24.63	83.92	12.44
09-Nov-10	MSW	30.83	32.27	73.08	9.4
10-Nov-10	MSW	31.56	37.68	62.24	4.72
11-Nov-10	MSW	86.6	40.62	99.91	8.31
12-Nov-10	MSW	104.09	0	191.61	12.39
13-Nov-10	MSW	0	60.22	121.93	9.46
14-Nov-10	MSW	0	58.32	63.61	0
15-Nov-10	MSW	27.85	0	77.71	13.75
16-Nov-10	MSW	52.13	61.78	60.41	7.65

TABLE AI-1 Municipal Solid Waste Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
17-Nov-10	MSW	97.43	51.58	98.16	8.1
18-Nov-10	MSW	75.65	19.09	144.45	10.27
19-Nov-10	MSW	0	60.77	72.65	11.03
20-Nov-10	MSW	0	0	43.88	28.77
21-Nov-10	MSW	0	0	43.88	0
22-Nov-10	MSW	29.53	0	58.99	14.42
23-Nov-10	MSW	0	0	29.02	29.97
24-Nov-10	MSW	0	0	0.49	28.53
25-Nov-10	MSW	26.23	0	26.72	0
26-Nov-10	MSW	0	0	0	26.72
27-Nov-10	MSW	0	0	0	0
28-Nov-10	MSW	0	0	0	0
29-Nov-10	MSW	58.07	0	58.07	0
30-Nov-10	MSW	0	0	52.05	6.02
01-Dec-10	MSW	0	22.99	29.07	0
02-Dec-10	MSW	62.77	31.5	57.34	3
03-Dec-10	MSW	94.09	29.3	113.9	8.23
04-Dec-10	MSW	0	22.95	79.4	11.55
05-Dec-10	MSW	0	18.94	60.46	0
06-Dec-10	MSW	0	0	49.87	10.59
07-Dec-10	MSW	52.32	0	60.08	42.11
08-Dec-10	MSW	62.67	20.92	93.46	8.37
09-Dec-10	MSW	0	8.305	74.59	10.56
10-Dec-10	MSW	78.32	29.287	118.94	4.69
11-Dec-10	MSW	0	14.62	101.09	3.23
12-Dec-10	MSW	0	12.419	88.67	0
13-Dec-10	MSW	0	0	35.27	53.4
14-Dec-10	MSW	57.55	0	92.82	0
15-Dec-10	MSW	21.81	18.02	86.57	10.05
16-Dec-10	MSW	45.16	23.449	105.39	2.89
17-Dec-10	MSW	0	30.31	68.99	6.09
18-Dec-10	MSW	0	0	68.99	0
19-Dec-10	MSW	0	0	68.99	0
20-Dec-10	MSW	0	0	46.54	22.45
21-Dec-10	MSW	0	0	0	46.54
22-Dec-10	MSW	0	0	0	0
23-Dec-10	MSW	0	0	0	0
24-Dec-10	MSW	0	0	0	0
25-Dec-10	MSW	0	0	0	0
26-Dec-10	MSW	0	0	0	0
27-Dec-10	MSW	0	0	0	0
28-Dec-10	MSW	0	0	0	0
29-Dec-10	MSW	0	0	0	0
30-Dec-10	MSW	0	0	0	0
31-Dec-10	MSW	0	0	0	0
01-Jan-11	MSW	0	0	0	0
02-Jan-11	MSW	0	0	0	0
03-Jan-11	MSW	0	0	0	0
04-Jan-11	MSW	0	0	0	0
05-Jan-11	MSW	0	0	0	0
06-Jan-11	MSW	0	0	0	0
07-Jan-11	MSW	0	0	0	0
08-Jan-11	MSW	0	0	0	0
09-Jan-11	MSW	0	0	0	0
10-Jan-11	MSW	0	0	0	0
11-Jan-11	MSW	0	0	0	0
12-Jan-11	MSW	0	0	0	0
13-Jan-11	MSW	0	0	0	0
14-Jan-11	MSW	0	0	0	0
15-Jan-11	MSW	0	0	0	0
16-Jan-11	MSW	0	0	0	0
17-Jan-11	MSW	0	0	0	0
18-Jan-11	MSW	0	0	0	0
19-Jan-11	MSW	0	0	0	0

TABLE AI-1 Municipal Solid Waste Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
20-Jan-11	MSW	0	0	0	0
21-Jan-11	MSW	0	0	0	0
22-Jan-11	MSW	0	0	0	0
23-Jan-11	MSW	0	0	0	0
24-Jan-11	MSW	0	0	0	0
25-Jan-11	MSW	0	0	0	0
26-Jan-11	MSW	0	0	0	0
27-Jan-11	MSW	0	0	0	0
28-Jan-11	MSW	0	0	0	0
29-Jan-11	MSW	0	0	0	0
30-Jan-11	MSW	0	0	0	0
31-Jan-11	MSW	0	0	0	0

TABLE AI-2 High Carbon Feed Shipments to Plasco Trail Road

Date	Type	Amount Delivered	Amount Processed	Amount on Floor	Amount Returned
		(tonnes)	(tonnes)	(tonnes)	(tonnes)
1-Jan-08	HCF				
2-Jan-08	HCF				
3-Jan-08	HCF				
4-Jan-08	HCF				
5-Jan-08	HCF				
6-Jan-08	HCF				
7-Jan-08	HCF				
8-Jan-08	HCF				
9-Jan-08	HCF				
10-Jan-08	HCF				
11-Jan-08	HCF				
12-Jan-08	HCF				
13-Jan-08	HCF				
14-Jan-08	HCF				
15-Jan-08	HCF				
16-Jan-08	HCF				
17-Jan-08	HCF				
18-Jan-08	HCF				
19-Jan-08	HCF				
20-Jan-08	HCF				
21-Jan-08	HCF				
22-Jan-08	HCF				
23-Jan-08	HCF				
24-Jan-08	HCF	2.17			2.17
25-Jan-08	HCF				2.17
26-Jan-08	HCF				2.17
27-Jan-08	HCF				2.17
28-Jan-08	HCF				2.17
29-Jan-08	HCF				2.17
30-Jan-08	HCF				2.17
31-Jan-08	HCF				2.17
1-Feb-08	HCF		0.2		1.97
2-Feb-08	HCF				1.97
3-Feb-08	HCF				1.97
4-Feb-08	HCF				1.97
5-Feb-08	HCF				1.97
6-Feb-08	HCF	6.34			8.31
7-Feb-08	HCF		2.0		6.31
8-Feb-08	HCF				6.31
9-Feb-08	HCF				6.31
10-Feb-08	HCF				6.31
11-Feb-08	HCF				6.31
12-Feb-08	HCF				6.31
13-Feb-08	HCF				6.31
14-Feb-08	HCF				6.31
15-Feb-08	HCF				6.31
16-Feb-08	HCF				6.31
17-Feb-08	HCF				6.31
18-Feb-08	HCF				6.31
19-Feb-08	HCF				6.31
20-Feb-08	HCF				6.31
21-Feb-08	HCF				6.31
22-Feb-08	HCF				6.31
23-Feb-08	HCF				6.31
24-Feb-08	HCF				6.31
25-Feb-08	HCF				6.31
26-Feb-08	HCF				6.31
27-Feb-08	HCF				6.31
28-Feb-08	HCF				6.31
29-Feb-08	HCF				6.31

TABLE AI-2 High Carbon Feed Shipments to Plasco Trail Road

Date	Type	Amount Delivered	Amount Processed	Amount on Floor	Amount Returned
		(tonnes)	(tonnes)	(tonnes)	(tonnes)
1-Mar-08	HCF			6.31	
2-Mar-08	HCF			6.31	
3-Mar-08	HCF			6.31	
4-Mar-08	HCF			6.31	
5-Mar-08	HCF			6.31	
6-Mar-08	HCF			6.31	
7-Mar-08	HCF			6.31	
8-Mar-08	HCF			6.31	
9-Mar-08	HCF			6.31	
10-Mar-08	HCF			6.31	
11-Mar-08	HCF			6.31	
12-Mar-08	HCF			6.31	
13-Mar-08	HCF			6.31	
14-Mar-08	HCF			6.31	
15-Mar-08	HCF			6.31	
16-Mar-08	HCF			6.31	
17-Mar-08	HCF			6.31	
18-Mar-08	HCF			6.31	
19-Mar-08	HCF			6.31	
20-Mar-08	HCF			6.31	
21-Mar-08	HCF			6.31	
22-Mar-08	HCF			6.31	
23-Mar-08	HCF			6.31	
24-Mar-08	HCF			6.31	
25-Mar-08	HCF			6.31	
26-Mar-08	HCF			6.31	
27-Mar-08	HCF			6.31	
28-Mar-08	HCF			6.31	
29-Mar-08	HCF			6.31	
30-Mar-08	HCF			6.31	
31-Mar-08	HCF			6.31	
1-Apr-08	HCF			6.31	
2-Apr-08	HCF			6.31	
3-Apr-08	HCF			6.31	
4-Apr-08	HCF		0.5	5.81	
5-Apr-08	HCF			5.81	
6-Apr-08	HCF			5.81	
7-Apr-08	HCF			5.81	
8-Apr-08	HCF			5.81	
9-Apr-08	HCF			5.81	
10-Apr-08	HCF			5.81	
11-Apr-08	HCF			5.81	
12-Apr-08	HCF			5.81	
13-Apr-08	HCF			5.81	
14-Apr-08	HCF			5.81	
15-Apr-08	HCF			5.81	
16-Apr-08	HCF	5.62		11.43	
17-Apr-08	HCF			11.43	
18-Apr-08	HCF			11.43	
19-Apr-08	HCF			11.43	
20-Apr-08	HCF			11.43	
21-Apr-08	HCF			11.43	
22-Apr-08	HCF			11.43	
23-Apr-08	HCF			11.43	
24-Apr-08	HCF		2.0	9.43	
25-Apr-08	HCF			9.43	
26-Apr-08	HCF			9.43	
27-Apr-08	HCF			9.43	
28-Apr-08	HCF			9.43	
29-Apr-08	HCF			9.43	
30-Apr-08	HCF		1.0	8.43	

TABLE AI-2 High Carbon Feed Shipments to Plasco Trail Road

Date	Type	Amount Delivered	Amount Processed	Amount on Floor	Amount Returned
		(tonnes)	(tonnes)	(tonnes)	(tonnes)
1-May-08	HCF			8.43	
2-May-08	HCF			8.43	
3-May-08	HCF			8.43	
4-May-08	HCF			8.43	
5-May-08	HCF			8.43	
6-May-08	HCF			8.43	
7-May-08	HCF			8.43	
8-May-08	HCF			8.43	
9-May-08	HCF			8.43	
10-May-08	HCF			8.43	
11-May-08	HCF			8.43	
12-May-08	HCF			8.43	
13-May-08	HCF			8.43	
14-May-08	HCF			8.43	
15-May-08	HCF			8.43	
16-May-08	HCF			8.43	
17-May-08	HCF			8.43	
18-May-08	HCF			8.43	
19-May-08	HCF			8.43	
20-May-08	HCF			8.43	
21-May-08	HCF			8.43	
22-May-08	HCF			8.43	
23-May-08	HCF			8.43	
24-May-08	HCF			8.43	
25-May-08	HCF			8.43	
26-May-08	HCF			8.43	
27-May-08	HCF			8.43	
28-May-08	HCF			8.43	
29-May-08	HCF			8.43	
30-May-08	HCF			8.43	
31-May-08	HCF			8.43	
1-Jun-08	HCF			8.43	
2-Jun-08	HCF			8.43	
3-Jun-08	HCF			8.43	
4-Jun-08	HCF		2.0	6.43	
5-Jun-08	HCF	11.07		17.50	
6-Jun-08	HCF			17.50	
7-Jun-08	HCF			17.50	
8-Jun-08	HCF			17.50	
9-Jun-08	HCF			17.50	
10-Jun-08	HCF		3.5	14.00	
11-Jun-08	HCF		2.0	12.00	
12-Jun-08	HCF		1.5	10.50	
13-Jun-08	HCF		1.0	9.50	
14-Jun-08	HCF			9.50	
15-Jun-08	HCF			9.50	
16-Jun-08	HCF			9.50	
17-Jun-08	HCF		1.0	8.50	
18-Jun-08	HCF		1.0	7.50	
19-Jun-08	HCF			7.50	
20-Jun-08	HCF			7.50	
21-Jun-08	HCF			7.50	
22-Jun-08	HCF			7.50	
23-Jun-08	HCF			7.50	
24-Jun-08	HCF			7.50	
25-Jun-08	HCF			7.50	
26-Jun-08	HCF			7.50	
27-Jun-08	HCF			7.50	
28-Jun-08	HCF			7.50	
29-Jun-08	HCF			7.50	
30-Jun-08	HCF	11.59		19.09	

TABLE AI-2 High Carbon Feed Shipments to Plasco Trail Road

Date	Type	Amount Delivered	Amount Processed	Amount on Floor	Amount Returned
		(tonnes)	(tonnes)	(tonnes)	(tonnes)
1-Jul-08	HCF			19.09	
2-Jul-08	HCF			19.09	
3-Jul-08	HCF			19.09	
4-Jul-08	HCF			19.09	
5-Jul-08	HCF			19.09	
6-Jul-08	HCF			19.09	
7-Jul-08	HCF			19.09	
8-Jul-08	HCF		2.0	17.09	
9-Jul-08	HCF		2.0	15.09	
10-Jul-08	HCF			15.09	
11-Jul-08	HCF			15.09	
12-Jul-08	HCF			15.09	
13-Jul-08	HCF			15.09	
14-Jul-08	HCF		1.0	14.09	
15-Jul-08	HCF		1.0	13.09	
16-Jul-08	HCF			13.09	
17-Jul-08	HCF			13.09	
18-Jul-08	HCF			13.09	
19-Jul-08	HCF			13.09	
20-Jul-08	HCF			13.09	
21-Jul-08	HCF			13.09	
22-Jul-08	HCF			13.09	
23-Jul-08	HCF			13.09	
24-Jul-08	HCF			13.09	
25-Jul-08	HCF			13.09	
26-Jul-08	HCF			13.09	
27-Jul-08	HCF			13.09	
28-Jul-08	HCF			13.09	
29-Jul-08	HCF			13.09	
30-Jul-08	HCF			13.09	
31-Jul-08	HCF			13.09	
1-Aug-08	HCF			13.09	
2-Aug-08	HCF			13.09	
3-Aug-08	HCF			13.09	
4-Aug-08	HCF			13.09	
5-Aug-08	HCF			13.09	
6-Aug-08	HCF			13.09	
7-Aug-08	HCF			13.09	
8-Aug-08	HCF			13.09	
9-Aug-08	HCF			13.09	
10-Aug-08	HCF			13.09	
11-Aug-08	HCF			13.09	
12-Aug-08	HCF			13.09	
13-Aug-08	HCF			13.09	
14-Aug-08	HCF			13.09	
15-Aug-08	HCF			13.09	
16-Aug-08	HCF			13.09	
17-Aug-08	HCF			13.09	
18-Aug-08	HCF			13.09	
19-Aug-08	HCF			13.09	
20-Aug-08	HCF			13.09	
21-Aug-08	HCF			13.09	
22-Aug-08	HCF			13.09	
23-Aug-08	HCF			13.09	
24-Aug-08	HCF			13.09	
25-Aug-08	HCF			13.09	
26-Aug-08	HCF			13.09	
27-Aug-08	HCF			13.09	
28-Aug-08	HCF			13.09	
29-Aug-08	HCF			13.09	
30-Aug-08	HCF			13.09	
31-Aug-08	HCF			13.09	

TABLE AI-2 High Carbon Feed Shipments to Plasco Trail Road

Date	Type	Amount Delivered	Amount Processed	Amount on Floor	Amount Returned
		(tonnes)	(tonnes)	(tonnes)	(tonnes)
1-Sep-08	HCF			13.09	
2-Sep-08	HCF			13.09	
3-Sep-08	HCF			13.09	
4-Sep-08	HCF			13.09	
5-Sep-08	HCF			13.09	
6-Sep-08	HCF			13.09	
7-Sep-08	HCF			13.09	
8-Sep-08	HCF			13.09	
9-Sep-08	HCF			13.09	
10-Sep-08	HCF			13.09	
11-Sep-08	HCF			13.09	
12-Sep-08	HCF			13.09	
13-Sep-08	HCF			13.09	
14-Sep-08	HCF			13.09	
15-Sep-08	HCF			13.09	
16-Sep-08	HCF			13.09	
17-Sep-08	HCF			13.09	
18-Sep-08	HCF			13.09	
19-Sep-08	HCF			13.09	
20-Sep-08	HCF			13.09	
21-Sep-08	HCF			13.09	
22-Sep-08	HCF			13.09	
23-Sep-08	HCF			13.09	
24-Sep-08	HCF			13.09	
25-Sep-08	HCF			13.09	
26-Sep-08	HCF			13.09	
27-Sep-08	HCF			13.09	
28-Sep-08	HCF			13.09	
29-Sep-08	HCF			13.09	
30-Sep-08	HCF			13.09	
1-Oct-08	HCF			13.09	
2-Oct-08	HCF			13.09	
3-Oct-08	HCF			13.09	
4-Oct-08	HCF			13.09	
5-Oct-08	HCF			13.09	
6-Oct-08	HCF			13.09	
7-Oct-08	HCF			13.09	
8-Oct-08	HCF			13.09	
9-Oct-08	HCF			13.09	
10-Oct-08	HCF			13.09	
11-Oct-08	HCF			13.09	
12-Oct-08	HCF			13.09	
13-Oct-08	HCF			13.09	
14-Oct-08	HCF			13.09	
15-Oct-08	HCF			13.09	
16-Oct-08	HCF			13.09	
17-Oct-08	HCF			13.09	
18-Oct-08	HCF			13.09	
19-Oct-08	HCF			13.09	
20-Oct-08	HCF			13.09	
21-Oct-08	HCF			13.09	
22-Oct-08	HCF			13.09	
23-Oct-08	HCF			13.09	
24-Oct-08	HCF			13.09	
25-Oct-08	HCF			13.09	
26-Oct-08	HCF			13.09	
27-Oct-08	HCF			13.09	
28-Oct-08	HCF			13.09	
29-Oct-08	HCF			13.09	
30-Oct-08	HCF			13.09	
31-Oct-08	HCF			13.09	

TABLE AI-2 High Carbon Feed Shipments to Plasco Trail Road

Date	Type	Amount Delivered	Amount Processed	Amount on Floor	Amount Returned
		(tonnes)	(tonnes)	(tonnes)	(tonnes)
1-Nov-08	HCF			13.09	
2-Nov-08	HCF			13.09	
3-Nov-08	HCF			13.09	
4-Nov-08	HCF			13.09	
5-Nov-08	HCF			13.09	
6-Nov-08	HCF			13.09	
7-Nov-08	HCF			13.09	
8-Nov-08	HCF			13.09	
9-Nov-08	HCF			13.09	
10-Nov-08	HCF			13.09	
11-Nov-08	HCF			13.09	
12-Nov-08	HCF			13.09	
13-Nov-08	HCF			13.09	
14-Nov-08	HCF			13.09	
15-Nov-08	HCF			13.09	
16-Nov-08	HCF			13.09	
17-Nov-08	HCF			13.09	
18-Nov-08	HCF			13.09	
19-Nov-08	HCF			13.09	
20-Nov-08	HCF			13.09	
21-Nov-08	HCF			13.09	
22-Nov-08	HCF			13.09	
23-Nov-08	HCF			13.09	
24-Nov-08	HCF			13.09	
25-Nov-08	HCF			13.09	
26-Nov-08	HCF			13.09	
27-Nov-08	HCF			13.09	
28-Nov-08	HCF			13.09	
29-Nov-08	HCF			13.09	
30-Nov-08	HCF			13.09	
1-Dec-08	HCF			13.09	
2-Dec-08	HCF			13.09	
3-Dec-08	HCF			13.09	
4-Dec-08	HCF			13.09	
5-Dec-08	HCF			13.09	
6-Dec-08	HCF			13.09	
7-Dec-08	HCF			13.09	
8-Dec-08	HCF			13.09	
9-Dec-08	HCF			13.09	
10-Dec-08	HCF			13.09	
11-Dec-08	HCF			13.09	
12-Dec-08	HCF	11.54	3.0	21.63	
13-Dec-08	HCF	11.35		32.98	
14-Dec-08	HCF			32.98	
15-Dec-08	HCF		5.5	27.48	
16-Dec-08	HCF		2.8	24.68	
17-Dec-08	HCF			24.68	
18-Dec-08	HCF		1.7	22.98	
19-Dec-08	HCF			22.98	
20-Dec-08	HCF			22.98	
21-Dec-08	HCF			22.98	
22-Dec-08	HCF			22.98	
23-Dec-08	HCF			22.98	
24-Dec-08	HCF			22.98	
25-Dec-08	HCF			22.98	
26-Dec-08	HCF			22.98	
27-Dec-08	HCF			22.98	
28-Dec-08	HCF			22.98	
29-Dec-08	HCF			22.98	
30-Dec-08	HCF			22.98	
31-Dec-08	HCF			22.98	

TABLE AI-2 High Carbon Feed Shipments to Plasco Trail Road

Date	Type	Amount Delivered	Amount Processed	Amount on Floor	Amount Returned
		(tonnes)	(tonnes)	(tonnes)	(tonnes)
1-Jan-09	HCF			22.98	
2-Jan-09	HCF			22.98	
3-Jan-09	HCF			22.98	
4-Jan-09	HCF			22.98	
5-Jan-09	HCF			22.98	
6-Jan-09	HCF	11.12		34.10	
7-Jan-09	HCF		3.0	31.10	
8-Jan-09	HCF			31.10	
9-Jan-09	HCF			31.10	
10-Jan-09	HCF			31.10	
11-Jan-09	HCF			31.10	
12-Jan-09	HCF			31.10	
13-Jan-09	HCF			31.10	
14-Jan-09	HCF			31.10	
15-Jan-09	HCF			31.10	
16-Jan-09	HCF			31.10	
17-Jan-09	HCF			31.10	
18-Jan-09	HCF			31.10	
19-Jan-09	HCF			31.10	
20-Jan-09	HCF			31.10	
21-Jan-09	HCF		1.5	29.60	
22-Jan-09	HCF		1.0	28.60	
23-Jan-09	HCF			28.60	
24-Jan-09	HCF			28.60	
25-Jan-09	HCF			28.60	
26-Jan-09	HCF			28.60	
27-Jan-09	HCF			28.60	
28-Jan-09	HCF			28.60	
29-Jan-09	HCF			28.60	
30-Jan-09	HCF			28.60	
31-Jan-09	HCF		3.0	25.60	
1-Feb-09	HCF		3.0	22.60	
2-Feb-09	HCF		3.0	19.60	
3-Feb-09	HCF			19.60	
4-Feb-09	HCF			19.60	
5-Feb-09	HCF			19.60	
6-Feb-09	HCF			19.60	
7-Feb-09	HCF			19.60	
8-Feb-09	HCF		3.0	16.60	
9-Feb-09	HCF	10.67	2.0	25.27	
10-Feb-09	HCF		2.0	23.27	
11-Feb-09	HCF		2.0	21.27	
12-Feb-09	HCF			21.27	
13-Feb-09	HCF			21.27	
14-Feb-09	HCF			21.27	
15-Feb-09	HCF			21.27	
16-Feb-09	HCF			21.27	
17-Feb-09	HCF		2.0	19.27	
18-Feb-09	HCF			19.27	
19-Feb-09	HCF			19.27	
20-Feb-09	HCF		2.0	17.27	
21-Feb-09	HCF			17.27	
22-Feb-09	HCF			17.27	
23-Feb-09	HCF			17.27	
24-Feb-09	HCF			17.27	
25-Feb-09	HCF		0.5	16.77	
26-Feb-09	HCF		2.0	14.77	
27-Feb-09	HCF	22.1		36.87	
28-Feb-09	HCF			36.87	

TABLE AI-2 High Carbon Feed Shipments to Plasco Trail Road

Date	Type	Amount Delivered	Amount Processed	Amount on Floor	Amount Returned
		(tonnes)	(tonnes)	(tonnes)	(tonnes)
1-Mar-09	HCF			36.87	
2-Mar-09	HCF			36.87	
3-Mar-09	HCF			36.87	
4-Mar-09	HCF			36.87	
5-Mar-09	HCF		1.0	35.87	
6-Mar-09	HCF			35.87	
7-Mar-09	HCF		1.0	34.87	
8-Mar-09	HCF			34.87	
9-Mar-09	HCF			34.87	
10-Mar-09	HCF			34.87	
11-Mar-09	HCF		1.0	33.87	
12-Mar-09	HCF		1.0	32.87	
13-Mar-09	HCF		1.0	31.87	
14-Mar-09	HCF			31.87	
15-Mar-09	HCF			31.87	
16-Mar-09	HCF			31.87	
17-Mar-09	HCF			31.87	
18-Mar-09	HCF			31.87	
19-Mar-09	HCF			31.87	
20-Mar-09	HCF			31.87	
21-Mar-09	HCF			31.87	
22-Mar-09	HCF			31.87	
23-Mar-09	HCF			31.87	
24-Mar-09	HCF			31.87	
25-Mar-09	HCF			31.87	
26-Mar-09	HCF		0.5	31.37	
27-Mar-09	HCF		2.0	29.37	
28-Mar-09	HCF		2.0	27.37	
29-Mar-09	HCF		1.0	26.37	
30-Mar-09	HCF		2.0	24.37	
31-Mar-09	HCF		4.0	20.37	
1-Apr-09	HCF		2.0	18.37	
2-Apr-09	HCF		0.5	17.87	
3-Apr-09	HCF	23.33	3.0	38.20	
4-Apr-09	HCF			38.20	
5-Apr-09	HCF		3.0	35.20	
6-Apr-09	HCF		1.5	33.70	
7-Apr-09	HCF		1.5	32.20	
8-Apr-09	HCF			32.20	
9-Apr-09	HCF			32.20	
10-Apr-09	HCF			32.20	
11-Apr-09	HCF			32.20	
12-Apr-09	HCF			32.20	
13-Apr-09	HCF			32.20	
14-Apr-09	HCF			32.20	
15-Apr-09	HCF			32.20	
16-Apr-09	HCF			32.20	
17-Apr-09	HCF	10.42		42.62	
18-Apr-09	HCF			42.62	
19-Apr-09	HCF			42.62	
20-Apr-09	HCF			42.62	
21-Apr-09	HCF	10.51		53.13	
22-Apr-09	HCF		2.0	51.13	
23-Apr-09	HCF		4.0	47.13	
24-Apr-09	HCF		2.0	45.13	
25-Apr-09	HCF		3.0	42.13	
26-Apr-09	HCF		1.0	41.13	
27-Apr-09	HCF		3.0	38.13	
28-Apr-09	HCF			38.13	
29-Apr-09	HCF			38.13	
30-Apr-09	HCF			38.13	

TABLE AI-2 High Carbon Feed Shipments to Plasco Trail Road

Date	Type	Amount Delivered	Amount Processed	Amount on Floor	Amount Returned
		(tonnes)	(tonnes)	(tonnes)	(tonnes)
1-May-09	HCF			38.13	
2-May-09	HCF			38.13	
3-May-09	HCF			38.13	
4-May-09	HCF			38.13	
5-May-09	HCF			38.13	
6-May-09	HCF			38.13	
7-May-09	HCF			38.13	
8-May-09	HCF			38.13	
9-May-09	HCF			38.13	
10-May-09	HCF			38.13	
11-May-09	HCF			38.13	
12-May-09	HCF			38.13	
13-May-09	HCF			38.13	
14-May-09	HCF			38.13	
15-May-09	HCF			38.13	
16-May-09	HCF			38.13	
17-May-09	HCF			38.13	
18-May-09	HCF			38.13	
19-May-09	HCF			38.13	
20-May-09	HCF			38.13	
21-May-09	HCF			38.13	
22-May-09	HCF			38.13	
23-May-09	HCF			38.13	
24-May-09	HCF			38.13	
25-May-09	HCF			38.13	
26-May-09	HCF			38.13	
27-May-09	HCF			38.13	
28-May-09	HCF			38.13	
29-May-09	HCF		3.0	35.13	
30-May-09	HCF			35.13	
31-May-09	HCF			35.13	
1-Jun-09	HCF		3.0	32.13	
2-Jun-09	HCF			32.13	
3-Jun-09	HCF			32.13	
4-Jun-09	HCF			32.13	
5-Jun-09	HCF			32.13	
6-Jun-09	HCF			32.13	
7-Jun-09	HCF			32.13	
8-Jun-09	HCF			32.13	
9-Jun-09	HCF		3.0	29.13	
10-Jun-09	HCF		2.0	27.13	
11-Jun-09	HCF			27.13	
12-Jun-09	HCF		2.0	25.13	
13-Jun-09	HCF			25.13	
14-Jun-09	HCF			25.13	
15-Jun-09	HCF			25.13	
16-Jun-09	HCF			25.13	
17-Jun-09	HCF			25.13	
18-Jun-09	HCF			25.13	
19-Jun-09	HCF			25.13	
20-Jun-09	HCF			25.13	
21-Jun-09	HCF			25.13	
22-Jun-09	HCF			25.13	
23-Jun-09	HCF		2.0	23.13	
24-Jun-09	HCF		2.0	21.13	
25-Jun-09	HCF			21.13	
26-Jun-09	HCF			21.13	
27-Jun-09	HCF			21.13	
28-Jun-09	HCF			21.13	
29-Jun-09	HCF			21.13	
30-Jun-09	HCF			21.13	

TABLE AI-2 High Carbon Feed Shipments to Plasco Trail Road

Date	Type	Amount Delivered	Amount Processed	Amount on Floor	Amount Returned
		(tonnes)	(tonnes)	(tonnes)	(tonnes)
1-Jul-09	HCF			21.13	
2-Jul-09	HCF			21.13	
3-Jul-09	HCF			21.13	
4-Jul-09	HCF			21.13	
5-Jul-09	HCF			21.13	
6-Jul-09	HCF		0.5	20.63	
7-Jul-09	HCF		0.5	20.13	
8-Jul-09	HCF			20.13	
9-Jul-09	HCF		0.5	19.63	
10-Jul-09	HCF		2	17.63	
11-Jul-09	HCF			17.63	
12-Jul-09	HCF			17.63	
13-Jul-09	HCF			17.63	
14-Jul-09	HCF	11.95		29.58	
15-Jul-09	HCF		2.50	27.08	
16-Jul-09	HCF		0.20	26.88	
17-Jul-09	HCF			26.88	
18-Jul-09	HCF			26.88	
19-Jul-09	HCF			26.88	
20-Jul-09	HCF			26.88	
21-Jul-09	HCF			26.88	
22-Jul-09	HCF			26.88	
23-Jul-09	HCF			26.88	
24-Jul-09	HCF			26.88	
25-Jul-09	HCF			26.88	
26-Jul-09	HCF			26.88	
27-Jul-09	HCF			26.88	
28-Jul-09	HCF			26.88	
29-Jul-09	HCF			26.88	
30-Jul-09	HCF		0.9	25.98	
31-Jul-09	HCF		0.7	25.28	
1-Aug-09	HCF			25.28	
2-Aug-09	HCF			25.28	
3-Aug-09	HCF			25.28	
4-Aug-09	HCF		0.7	10.00	
5-Aug-09	HCF		1.4	8.58	
6-Aug-09	HCF		1.4	7.16	
7-Aug-09	HCF			7.16	
8-Aug-09	HCF			7.16	
9-Aug-09	HCF			7.16	
10-Aug-09	HCF			7.16	
11-Aug-09	HCF			7.16	
12-Aug-09	HCF		1.3	5.84	
13-Aug-09	HCF			5.84	
14-Aug-09	HCF			5.84	
15-Aug-09	HCF			5.84	
16-Aug-09	HCF			5.84	
17-Aug-09	HCF			5.84	
18-Aug-09	HCF			5.84	
19-Aug-09	HCF			5.84	
20-Aug-09	HCF			5.84	
21-Aug-09	HCF			5.84	
22-Aug-09	HCF			5.84	
23-Aug-09	HCF			5.84	
24-Aug-09	HCF			5.84	
25-Aug-09	HCF			5.84	
26-Aug-09	HCF			5.84	
27-Aug-09	HCF			5.84	
28-Aug-09	HCF			5.84	
29-Aug-09	HCF			5.84	
30-Aug-09	HCF			5.84	
31-Aug-09	HCF			5.84	

TABLE AI-2 High Carbon Feed Shipments to Plasco Trail Road

Date	Type	Amount Delivered	Amount Processed	Amount on Floor	Amount Returned
		(tonnes)	(tonnes)	(tonnes)	(tonnes)
1-Sep-09	HCF			5.84	
2-Sep-09	HCF			5.84	
3-Sep-09	HCF			5.84	
4-Sep-09	HCF			5.84	
5-Sep-09	HCF			5.84	
6-Sep-09	HCF			5.84	
7-Sep-09	HCF			5.84	
8-Sep-09	HCF			5.84	
9-Sep-09	HCF			5.84	
10-Sep-09	HCF			5.84	
11-Sep-09	HCF			5.84	
12-Sep-09	HCF			5.84	
13-Sep-09	HCF			5.84	
14-Sep-09	HCF			5.84	
15-Sep-09	HCF			5.84	
16-Sep-09	HCF			5.84	
17-Sep-09	HCF			5.84	
18-Sep-09	HCF			5.84	
19-Sep-09	HCF			5.84	
20-Sep-09	HCF			5.84	
21-Sep-09	HCF			5.84	
22-Sep-09	HCF			5.84	
23-Sep-09	HCF			5.84	
24-Sep-09	HCF			5.84	
25-Sep-09	HCF			5.84	
26-Sep-09	HCF			5.84	
27-Sep-09	HCF			5.84	
28-Sep-09	HCF			5.84	
29-Sep-09	HCF			5.84	
30-Sep-09	HCF			5.84	
1-Oct-09	HCF			5.84	
2-Oct-09	HCF			5.84	
3-Oct-09	HCF			5.84	
4-Oct-09	HCF			5.84	
5-Oct-09	HCF			5.84	
6-Oct-09	HCF			5.84	
7-Oct-09	HCF			5.84	
8-Oct-09	HCF			5.84	
9-Oct-09	HCF			5.84	
10-Oct-09	HCF			5.84	
11-Oct-09	HCF			5.84	
12-Oct-09	HCF			5.84	
13-Oct-09	HCF			5.84	
14-Oct-09	HCF			5.84	
15-Oct-09	HCF			5.84	
16-Oct-09	HCF			5.84	
17-Oct-09	HCF			5.84	
18-Oct-09	HCF			5.84	
19-Oct-09	HCF			5.84	
20-Oct-09	HCF			5.84	
21-Oct-09	HCF			5.84	
22-Oct-09	HCF			5.84	
23-Oct-09	HCF		1.7	4.13	
24-Oct-09	HCF		0.3	3.88	
25-Oct-09	HCF			3.88	
26-Oct-09	HCF			3.88	
27-Oct-09	HCF			3.88	
28-Oct-09	HCF			3.88	
29-Oct-09	HCF			3.88	
30-Oct-09	HCF			3.88	
31-Oct-09	HCF			3.88	

TABLE AI-2 High Carbon Feed Shipments to Plasco Trail Road

Date	Type	Amount Delivered	Amount Processed	Amount on Floor	Amount Returned
		(tonnes)	(tonnes)	(tonnes)	(tonnes)
1-Nov-09	HCF			3.88	
2-Nov-09	HCF			3.88	
3-Nov-09	HCF			3.88	
4-Nov-09	HCF			3.88	
5-Nov-09	HCF			3.88	
6-Nov-09	HCF			3.88	
7-Nov-09	HCF			3.88	
8-Nov-09	HCF			3.88	
9-Nov-09	HCF			3.88	
10-Nov-09	HCF			3.88	
11-Nov-09	HCF			3.88	
12-Nov-09	HCF			3.88	
13-Nov-09	HCF			3.88	
14-Nov-09	HCF			3.88	
15-Nov-09	HCF			3.88	
16-Nov-09	HCF			3.88	
17-Nov-09	HCF			3.88	
18-Nov-09	HCF			3.88	
19-Nov-09	HCF			3.88	
20-Nov-09	HCF			3.88	
21-Nov-09	HCF			3.88	
22-Nov-09	HCF			3.88	
23-Nov-09	HCF			3.88	
24-Nov-09	HCF			3.88	
25-Nov-09	HCF			3.88	
26-Nov-09	HCF			3.88	
27-Nov-09	HCF			3.88	
28-Nov-09	HCF			3.88	
29-Nov-09	HCF			3.88	
30-Nov-09	HCF			3.88	
1-Dec-09	HCF			3.88	
2-Dec-09	HCF			3.88	
3-Dec-09	HCF			3.88	
4-Dec-09	HCF			3.88	
5-Dec-09	HCF			3.88	
6-Dec-09	HCF			3.88	
7-Dec-09	HCF			3.88	
8-Dec-09	HCF			3.88	
9-Dec-09	HCF		1.2	2.68	
10-Dec-09	HCF			2.68	
11-Dec-09	HCF			2.68	
12-Dec-09	HCF			2.68	
13-Dec-09	HCF			2.68	
14-Dec-09	HCF			2.68	
15-Dec-09	HCF			2.68	
16-Dec-09	HCF			2.68	
17-Dec-09	HCF			2.68	
18-Dec-09	HCF			2.68	
19-Dec-09	HCF			2.68	
20-Dec-09	HCF			2.68	
21-Dec-09	HCF			2.68	
22-Dec-09	HCF			2.68	
23-Dec-09	HCF			2.68	
24-Dec-09	HCF			2.68	
25-Dec-09	HCF			2.68	
26-Dec-09	HCF			2.68	
27-Dec-09	HCF			2.68	
28-Dec-09	HCF			2.68	
29-Dec-09	HCF			2.68	
30-Dec-09	HCF			2.68	
31-Dec-09	HCF			2.68	

TABLE AI-2 High Carbon Feed Shipments to Plasco Trail Road

Date	Type	Amount Delivered	Amount Processed	Amount on Floor	Amount Returned
		(tonnes)	(tonnes)	(tonnes)	(tonnes)
1-Jan-10	HCF			2.68	
2-Jan-10	HCF			2.68	
3-Jan-10	HCF			2.68	
4-Jan-10	HCF			2.68	
5-Jan-10	HCF			2.68	
6-Jan-10	HCF		2.0	8.05	
7-Jan-10	HCF		1.4	6.69	
8-Jan-10	HCF		0.7	6.00	
9-Jan-10	HCF			6.00	
10-Jan-10	HCF			6.00	
11-Jan-10	HCF			6.00	
12-Jan-10	HCF			6.00	
13-Jan-10	HCF			6.00	
14-Jan-10	HCF			17.86	
15-Jan-10	HCF			17.86	
16-Jan-10	HCF			17.86	
17-Jan-10	HCF			17.86	
18-Jan-10	HCF			17.86	
19-Jan-10	HCF			17.86	
20-Jan-10	HCF		0.5	17.41	
21-Jan-10	HCF			17.41	
22-Jan-10	HCF			17.41	
23-Jan-10	HCF			17.41	
24-Jan-10	HCF			17.41	
25-Jan-10	HCF			17.41	
26-Jan-10	HCF			17.41	
27-Jan-10	HCF			17.41	
28-Jan-10	HCF			17.41	
29-Jan-10	HCF			17.41	
30-Jan-10	HCF			17.41	
31-Jan-10	HCF			17.41	
1-Feb-10	HCF			17.41	
2-Feb-10	HCF			17.41	
3-Feb-10	HCF			17.41	
4-Feb-10	HCF			17.41	
5-Feb-10	HCF			17.41	
6-Feb-10	HCF			17.41	
7-Feb-10	HCF			17.41	
8-Feb-10	HCF			17.41	
9-Feb-10	HCF			17.41	
10-Feb-10	HCF			17.41	
11-Feb-10	HCF			17.41	
12-Feb-10	HCF			17.41	
13-Feb-10	HCF			17.41	
14-Feb-10	HCF			17.41	
15-Feb-10	HCF			17.41	
16-Feb-10	HCF			17.41	
17-Feb-10	HCF			17.41	
18-Feb-10	HCF			17.41	
19-Feb-10	HCF			17.41	
20-Feb-10	HCF			17.41	
21-Feb-10	HCF			17.41	
22-Feb-10	HCF			17.41	
23-Feb-10	HCF			17.41	
24-Feb-10	HCF			17.41	
25-Feb-10	HCF			17.41	
26-Feb-10	HCF			17.41	
27-Feb-10	HCF			17.41	
28-Feb-10	HCF			17.41	
1-Mar-10	HCF			17.41	
2-Mar-10	HCF			17.41	
3-Mar-10	HCF			17.41	
4-Mar-10	HCF			17.41	

TABLE AI-2 High Carbon Feed Shipments to Plasco Trail Road

Date	Type	Amount Delivered	Amount Processed	Amount on Floor	Amount Returned
		(tonnes)	(tonnes)	(tonnes)	(tonnes)
5-Mar-10	HCF			17.41	
6-Mar-10	HCF			17.41	
7-Mar-10	HCF			17.41	
8-Mar-10	HCF			17.41	
9-Mar-10	HCF			17.41	
10-Mar-10	HCF			17.41	
11-Mar-10	HCF			17.41	
12-Mar-10	HCF			17.41	
13-Mar-10	HCF			17.41	
14-Mar-10	HCF			17.41	
15-Mar-10	HCF			17.41	
16-Mar-10	HCF			17.41	
17-Mar-10	HCF			17.41	
18-Mar-10	HCF			17.41	
19-Mar-10	HCF		0.2	17.24	
20-Mar-10	HCF			17.24	
21-Mar-10	HCF			17.24	
22-Mar-10	HCF			17.24	
23-Mar-10	HCF			17.24	
24-Mar-10	HCF			17.24	
25-Mar-10	HCF			17.24	
26-Mar-10	HCF			17.24	
27-Mar-10	HCF			17.24	
28-Mar-10	HCF			17.24	
29-Mar-10	HCF			17.24	
30-Mar-10	HCF			17.24	
31-Mar-10	HCF			17.24	
1-Apr-10	HCF			17.24	
2-Apr-10	HCF			17.24	
3-Apr-10	HCF			17.24	
4-Apr-10	HCF			17.24	
5-Apr-10	HCF			17.24	
6-Apr-10	HCF			17.24	
7-Apr-10	HCF			17.24	
8-Apr-10	HCF			17.24	
9-Apr-10	HCF			17.24	
10-Apr-10	HCF			17.24	
11-Apr-10	HCF			17.24	
12-Apr-10	HCF			17.24	
13-Apr-10	HCF			17.24	
14-Apr-10	HCF			17.24	
15-Apr-10	HCF		1.0	16.24	
16-Apr-10	HCF		1.6	14.64	
17-Apr-10	HCF			14.64	
18-Apr-10	HCF			14.64	
19-Apr-10	HCF			14.64	
20-Apr-10	HCF			14.64	
21-Apr-10	HCF			14.64	
22-Apr-10	HCF			14.64	
23-Apr-10	HCF			14.64	
24-Apr-10	HCF			14.64	
25-Apr-10	HCF			14.64	
26-Apr-10	HCF			14.64	
27-Apr-10	HCF			12.76	
28-Apr-10	HCF			12.76	
29-Apr-10	HCF			12.76	
30-Apr-10	HCF			12.76	
1-May-10	HCF			12.76	
2-May-10	HCF			12.76	
3-May-10	HCF			12.76	
4-May-10	HCF			12.76	
5-May-10	HCF			12.76	
6-May-10	HCF		2.0	10.79	
7-May-10	HCF			10.79	
8-May-10	HCF			10.79	
9-May-10	HCF			10.79	

TABLE AI-2 High Carbon Feed Shipments to Plasco Trail Road

Date	Type	Amount Delivered	Amount Processed	Amount on Floor	Amount Returned
		(tonnes)	(tonnes)	(tonnes)	(tonnes)
10-May-10	HCF			10.79	
11-May-10	HCF			10.79	
12-May-10	HCF			10.79	
13-May-10	HCF			10.79	
14-May-10	HCF			10.79	
15-May-10	HCF			10.79	
16-May-10	HCF			10.79	
17-May-10	HCF			10.79	
18-May-10	HCF			10.79	
19-May-10	HCF			10.79	
20-May-10	HCF			10.79	
21-May-10	HCF			10.79	
22-May-10	HCF			10.79	
23-May-10	HCF			10.79	
24-May-10	HCF			10.79	
25-May-10	HCF			10.79	
26-May-10	HCF			10.79	
27-May-10	HCF			10.79	
28-May-10	HCF			10.79	
29-May-10	HCF			10.79	
30-May-10	HCF			10.79	
31-May-10	HCF			10.79	
1-Jun-10	HCF			10.79	
2-Jun-10	HCF			10.79	
3-Jun-10	HCF			10.79	
4-Jun-10	HCF			10.79	
5-Jun-10	HCF			10.79	
6-Jun-10	HCF			10.79	
7-Jun-10	HCF			10.79	
8-Jun-10	HCF			10.79	
9-Jun-10	HCF			10.79	
10-Jun-10	HCF			10.79	
11-Jun-10	HCF			10.79	
12-Jun-10	HCF			10.79	
13-Jun-10	HCF			10.79	
14-Jun-10	HCF			10.79	
15-Jun-10	HCF			10.79	
16-Jun-10	HCF			10.79	
17-Jun-10	HCF			10.79	
18-Jun-10	HCF			10.79	
19-Jun-10	HCF			10.79	
20-Jun-10	HCF			10.79	
21-Jun-10	HCF			10.79	
22-Jun-10	HCF			10.79	
23-Jun-10	HCF			10.79	
24-Jun-10	HCF			10.79	
25-Jun-10	HCF			10.79	
26-Jun-10	HCF			10.79	
27-Jun-10	HCF			10.79	
28-Jun-10	HCF			10.79	
29-Jun-10	HCF			10.79	
30-Jun-10	HCF			10.79	
1-Jul-10	HCF			10.79	
2-Jul-10	HCF			10.79	
3-Jul-10	HCF			10.79	
4-Jul-10	HCF			10.79	
5-Jul-10	HCF			10.79	
6-Jul-10	HCF			10.79	
7-Jul-10	HCF			10.79	
8-Jul-10	HCF			10.79	
9-Jul-10	HCF			10.79	
10-Jul-10	HCF			10.79	
11-Jul-10	HCF			10.79	
12-Jul-10	HCF			10.79	
13-Jul-10	HCF			10.79	
14-Jul-10	HCF			10.79	

TABLE AI-2 High Carbon Feed Shipments to Plasco Trail Road

Date	Type	Amount Delivered	Amount Processed	Amount on Floor	Amount Returned
		(tonnes)	(tonnes)	(tonnes)	(tonnes)
15-Jul-10	HCF			10.79	
16-Jul-10	HCF			10.79	
17-Jul-10	HCF			10.79	
18-Jul-10	HCF			10.79	
19-Jul-10	HCF			10.79	
20-Jul-10	HCF			10.79	
21-Jul-10	HCF			10.79	
22-Jul-10	HCF			10.79	
23-Jul-10	HCF			10.79	
24-Jul-10	HCF			10.79	
25-Jul-10	HCF			10.79	
26-Jul-10	HCF			10.79	
27-Jul-10	HCF			10.79	
28-Jul-10	HCF			10.79	
29-Jul-10	HCF			10.79	
30-Jul-10	HCF			10.79	
31-Jul-10	HCF			10.79	
1-Aug-10	HCF			10.79	
2-Aug-10	HCF			10.74	
3-Aug-10	HCF			10.74	
4-Aug-10	HCF			10.74	
5-Aug-10	HCF			10.74	
6-Aug-10	HCF			10.74	
7-Aug-10	HCF			10.74	
8-Aug-10	HCF			10.74	
9-Aug-10	HCF			10.74	
10-Aug-10	HCF			10.74	
11-Aug-10	HCF			10.74	
12-Aug-10	HCF		0.5	10.26	
13-Aug-10	HCF			10.26	
14-Aug-10	HCF			10.26	
15-Aug-10	HCF			10.26	
16-Aug-10	HCF			10.26	
17-Aug-10	HCF			10.26	
18-Aug-10	HCF			10.26	
19-Aug-10	HCF			10.26	
20-Aug-10	HCF			10.26	
21-Aug-10	HCF			10.26	
22-Aug-10	HCF			10.26	
23-Aug-10	HCF			10.26	
24-Aug-10	HCF			10.26	
25-Aug-10	HCF			10.26	
26-Aug-10	HCF			10.26	
27-Aug-10	HCF			10.26	
28-Aug-10	HCF			10.26	
29-Aug-10	HCF			10.26	
30-Aug-10	HCF			10.26	
1-Sep-10	HCF			10.26	
2-Sep-10	HCF			9.88	0.38
3-Sep-10	HCF			9.88	
4-Sep-10	HCF			9.88	
5-Sep-10	HCF			9.88	
6-Sep-10	HCF			9.88	
7-Sep-10	HCF			9.88	
8-Sep-10	HCF			9.88	
9-Sep-10	HCF			9.88	
10-Sep-10	HCF			9.88	
11-Sep-10	HCF			9.88	
12-Sep-10	HCF			9.88	
13-Sep-10	HCF			9.88	
14-Sep-10	HCF	11.41		20.12	1.17
15-Sep-10	HCF			20.12	
16-Sep-10	HCF			20.12	
17-Sep-10	HCF			20.12	
18-Sep-10	HCF			20.12	
19-Sep-10	HCF			20.12	

TABLE AI-2 High Carbon Feed Shipments to Plasco Trail Road

Date	Type	Amount Delivered	Amount Processed	Amount on Floor	Amount Returned
		(tonnes)	(tonnes)	(tonnes)	(tonnes)
20-Sep-10	HCF			20.12	
21-Sep-10	HCF			20.12	
22-Sep-10	HCF			20.12	
23-Sep-10	HCF			20.12	
24-Sep-10	HCF			20.12	
25-Sep-10	HCF			20.12	
26-Sep-10	HCF			20.12	
27-Sep-10	HCF			20.12	
28-Sep-10	HCF			20.12	
29-Sep-10	HCF			20.12	
30-Sep-10	HCF			20.12	
01-Oct-10	HCF			20.12	
02-Oct-10	HCF			20.12	
03-Oct-10	HCF			20.12	
04-Oct-10	HCF			20.12	
05-Oct-10	HCF			20.12	
06-Oct-10	HCF			20.12	
07-Oct-10	HCF			20.12	
08-Oct-10	HCF			20.12	
09-Oct-10	HCF			20.12	
10-Oct-10	HCF			20.12	
11-Oct-10	HCF			20.12	
12-Oct-10	HCF			20.12	
13-Oct-10	HCF			20.12	
14-Oct-10	HCF			20.12	
15-Oct-10	HCF			20.12	
16-Oct-10	HCF			20.12	
17-Oct-10	HCF			20.12	
18-Oct-10	HCF			20.12	
19-Oct-10	HCF			20.12	
20-Oct-10	HCF			20.12	
21-Oct-10	HCF	11.38		31.503	
22-Oct-10	HCF			31.503	
23-Oct-10	HCF			31.503	
24-Oct-10	HCF			31.503	
25-Oct-10	HCF			31.503	
26-Oct-10	HCF			31.503	
27-Oct-10	HCF			31.503	
28-Oct-10	HCF			31.503	
29-Oct-10	HCF			31.503	
30-Oct-10	HCF			31.503	
31-Oct-10	HCF			31.503	
01-Nov-10	HCF			31.503	
02-Nov-10	HCF			31.503	
03-Nov-10	HCF			31.503	
04-Nov-10	HCF			31.503	
05-Nov-10	HCF			31.503	
06-Nov-10	HCF			31.503	
07-Nov-10	HCF			31.503	
08-Nov-10	HCF			31.503	
09-Nov-10	HCF			31.503	
10-Nov-10	HCF			31.503	
11-Nov-10	HCF			31.503	
12-Nov-10	HCF			31.503	
13-Nov-10	HCF			31.503	
14-Nov-10	HCF			31.503	
15-Nov-10	HCF			31.503	
16-Nov-10	HCF			31.503	
17-Nov-10	HCF			31.503	
18-Nov-10	HCF			31.503	
19-Nov-10	HCF			31.503	
20-Nov-10	HCF			31.503	
21-Nov-10	HCF			31.503	
22-Nov-10	HCF			31.503	
23-Nov-10	HCF			31.503	
24-Nov-10	HCF			31.503	

TABLE AI-2 High Carbon Feed Shipments to Plasco Trail Road

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)
25-Nov-10	HCF			31.503	
26-Nov-10	HCF			31.503	
27-Nov-10	HCF			31.503	
28-Nov-10	HCF			31.503	
29-Nov-10	HCF			31.503	
30-Nov-10	HCF			31.503	
01-Dec-10	HCF			31.503	
02-Dec-10	HCF			31.503	
03-Dec-10	HCF			31.503	
04-Dec-10	HCF			31.503	
05-Dec-10	HCF		0.8	30.72	
06-Dec-10	HCF			30.72	
07-Dec-10	HCF			28.83	1.89
08-Dec-10	HCF		0.9	27.95	
09-Dec-10	HCF			27.95	
10-Dec-10	HCF		1.2	26.75	
11-Dec-10	HCF			26.75	
12-Dec-10	HCF			26.75	
13-Dec-10	HCF			24.73	2.02
14-Dec-10	HCF			24.73	
15-Dec-10	HCF		0.8	23.11	0.81
16-Dec-10	HCF		0.9	21.25	0.92
17-Dec-10	HCF		1.2	20.05	
18-Dec-10	HCF			20.05	
19-Dec-10	HCF			20.05	
20-Dec-10	HCF			19.04	1.01
21-Dec-10	HCF			19.04	
22-Dec-10	HCF			19.04	
23-Dec-10	HCF			19.04	
24-Dec-10	HCF			19.04	
25-Dec-10	HCF			19.04	
26-Dec-10	HCF			19.04	
27-Dec-10	HCF			19.04	
28-Dec-10	HCF			19.04	
29-Dec-10	HCF			19.04	
30-Dec-10	HCF			19.04	
31-Dec-10	HCF			19.04	
01-Jan-11	HCF			19.04	
02-Jan-11	HCF			19.04	
03-Jan-11	HCF			19.04	
04-Jan-11	HCF			19.04	
05-Jan-11	HCF			19.04	
06-Jan-11	HCF			19.04	
07-Jan-11	HCF			19.04	
08-Jan-11	HCF			19.04	
09-Jan-11	HCF			19.04	
10-Jan-11	HCF			11.46	7.58
11-Jan-11	HCF			0	11.46
12-Jan-11	HCF			0	
13-Jan-11	HCF			0	
14-Jan-11	HCF			0	
15-Jan-11	HCF			0	
16-Jan-11	HCF			0	
17-Jan-11	HCF			0	
18-Jan-11	HCF			0	
19-Jan-11	HCF			0	
20-Jan-11	HCF			0	
21-Jan-11	HCF			0	
22-Jan-11	HCF			0	
23-Jan-11	HCF			0	
24-Jan-11	HCF			0	
25-Jan-11	HCF			0	
26-Jan-11	HCF			0	
27-Jan-11	HCF			0	
28-Jan-11	HCF			0	
29-Jan-11	HCF			0	

TABLE AI-2 High Carbon Feed Shipments to Plasco Trail Road

Date	Type	Amount Delivered	Amount Processed	Amount on Floor	Amount Returned
		(tonnes)	(tonnes)	(tonnes)	(tonnes)
30-Jan-11	HCF			0	
31-Jan-11	HCF			0	



APPENDIX II
Plasco Trail Road Residual Waste Analyses

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	BOD (mg/L)	Conductivity (uS/cm)	Cyanide, total (mg/L)	pH (pH unit)	Total Suspended Solids (mg/L)	Sulphide (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Formaldehyde (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate as N (mg/L)	Nitrite as N (mg/L)	Phosphate as P (mg/L)	Sulphate (mg/L)	Aluminum (ug/L)	Antimony (ug/L)	Arsenic (ug/L)	Bismuth (ug/L)	Boron (ug/L)	Cadmium (ug/L)
Detection Limit			2	5	0.04	0.05	2	0.04	20	0.1	0.1	5	0.1	0.1	0.05	1	5	10	1	10	5	50	1
ROPEC Discharge Limit			300	2	5.5-11	350	2	775	0.3							70	1500	50000	5000	1000	5000	25000	20
0921002-01 8418-24	17-May-09	L-NA-6	ND	2480	ND	9.09	3	0.02	154	0.1	1.8	317	ND	ND	1.21	ND	97	83	227	96	ND	181	ND
0921002-02 8418-25	17-May-09	L-NA-7	ND	2650	ND	9.09	ND	0.02	158	ND	1.8	318	ND	ND	1.68	ND	97	95	245	105	ND	188	ND
0921135-01 8418-34	21-May-09	L-NA-12	ND	6580	0.39	8.94	ND	ND	440	ND	4.8	1170	0.6	3.1	2.04	ND	170	296	355	86	ND	476	ND
0921136-01 8418-35	21-May-09	L-NA-13	ND	6590	0.53	8.96	ND	ND	447	ND	4.9	1190	0.6	3.3	2.08	ND	173	287	361	88	ND	477	ND
0922108-01 8418-38	27-May-09	L-NA-15	ND	8470	1.03	9.16	ND	ND	467	ND	8.7	2000	1	3.2	9.68	ND	292	214	612	78	ND	192	ND
0923120-03 8418-43	03-Jun-2009	L-NB-2	ND	9040	ND	9.74	564	ND	316	ND	9.4	1620	ND	4.3	15.3	ND	385	408	844	93	ND	175	ND
0923120-02 8418-42	03-Jun-2009	L-NA-17	ND	10200	0.02	9.76	150	ND	326	ND	10.6	2060	ND	4.8	17.8	ND	435	660	896	104	ND	183	ND
0924087-02 8418-46	10-Jun-2009	L-NB-04	ND	12400	4.77	10.34	6	0.98	210	ND	24.4	2720	ND	8.7	18.1	ND	640	350	652	83	ND	106	ND
0924087-05 8418-47	11-Jun-2009	L-NB-04 Doubl1	ND	15600	0.17	12.04	46	ND	358	ND	17.3	2950	ND	5.8	28.3	ND	735	1110	724	128	ND	296	ND
0925004-14 8418-48	15-Jun-09	L-NA-21	ND	12400	17.2	11.66	60	ND	263	ND	8.4	1710	1	3.3	17.2	ND	434	11500	850	158	ND	375	ND
0925004-16 8418-49	17-Jun-09	L-NA-21	ND	9	ND	10.29	4	ND	290	ND	8.2	2510	ND	5.3	15.4	ND	659	498	722	135	ND	ND	ND
0925171-01 8418-50	19-Jun-09	L-N-12	ND	9	ND	9.56	4	ND	329	ND	5.6	1350	ND	4.6	30.1	10	612	690	600	111	ND	ND	ND
0926001-01 8418-51	22-Jun-09	L-N-13	3	7630	4.31	9.54	2	ND	329	ND	5.6	1350	ND	4.6	30.1	10	612	690	600	111	ND	ND	ND
0926001-02 8418-52	23-Jun-09	L-N-13	ND	6530	1.23	9.25	6	ND	186	ND	5.4	1870	ND	3.6	19.2	ND	164	395	494	75	ND	ND	ND
0926107-02 8418-53	24-Jun-09	L-NB062409	ND	6530	0.69	9.25	6	ND	186	ND	5.4	1870	ND	3.6	19.2	ND	164	395	494	75	ND	ND	ND
0926143-02 8418-53	25-Jun-09	L-NB-6	7	6840	4.17	9.36	10	ND	322	ND	6	1700	ND	2.9	11.2	ND	302	462	403	75	ND	ND	ND
0927008-04 8418-55	28-Jun-09	L-NA-22-090629	ND	6820	1.97	9.37	2	ND	300	ND	6.3	1630	ND	2.7	14.5	ND	354	302	367	169	ND	ND	ND
0927009-02 8418-55	27-Jun-09	L-NB-07-090627_02-40	ND	6820	ND	9.93	6	ND	215	ND	7	2130	ND	2.9	18.6	ND	312	519	331	126	ND	133	ND
0927009-03 8418-54	27-Jun-09	L-NB-07-090629-0800	ND	7390	ND	9.93	6	ND	215	ND	7	2130	ND	2.9	18.6	ND	312	519	331	126	ND	133	ND
0927009-01 8418-54	27-Jun-09	L-N-15-090627	ND	7390	ND	9.93	6	ND	215	ND	7	2130	ND	2.9	18.6	ND	312	519	331	126	ND	133	ND
0928113-01 8418-59	08-Jul-09	L-NB-08 08072009 16:00	ND	8160	3	9.53	6	ND	292	ND	7.3	2270	ND	2.4	17.1	ND	346	287	376	98	ND	63	ND
0928155-01 8418-60	10-Jul-09	L-NB-08-10072009 0500	ND	8850	ND	9.57	4	ND	243	ND	6.8	2620	1.4	2	20.2	1	407	374	374	131	ND	60	ND
0929003-01 8418-60	13-Jul-09	L-NA-23-090713-0200	ND	11800	ND	9.86	4	ND	295	ND	0.5	3090	1.6	0.3	11.6	ND	472	516	408	117	ND	108	ND
0929003-02 8418-61	13-Jul-09	L-N-16-090713-0200	ND	11500	ND	10.07	ND	ND	336	ND	0.2	2410	1.8	ND	8.03	ND	328	523	484	121	ND	481	ND
0929074-01 8418-62	15-Jul-09	L-NA-24-090715-0200	ND	7790	ND	10.03	ND	ND	217	ND	7.1	1280	1.9	1.3	15.4	2	360	414	526	138	ND	211	ND
0929106-01 8418-63	16-Jul-09	L-NB-09-090716-0200	55	14900	ND	12.06	ND	ND	168	ND	9.1	1230	1.2	2.2	19.4	2	388	3570	450	201	ND	746	ND
0929130-01 8418-64	17-Jul-09	L-N-17-090717-0200	ND	7120	ND	10.76	22	ND	269	ND	6.9	1320	1.4	0.7	12.9	ND	122	701	438	60	ND	236	ND
0930001-01 8418-65	20-Jul-09	L-NA-25 090720-0200	ND	6490	ND	9.87	10	ND	205	ND	15	1030	1.4	1.2	11.5	ND	247	417	562	222	ND	125	ND
0930001-02 8418-66	20-Jul-09	L-N-18 090720-0200	ND	5410	ND	9	ND	ND	217	ND	20.5	780	1.3	4.2	9.1	2	183	178	590	112	ND	51	ND
0930115-01 8418-67	23-Jul-09	L-NB-10 090723-0200	ND	8360	ND	9.5	2	ND	147	ND	5.9	1640	ND	3.3	17.1	ND	430	567	429	102	ND	ND	ND
0930147-01 8418-68	24-Jul-09	L-NA-26 090724-0200	ND	9960	ND	10.06	22	ND	228	ND	6.2	2230	ND	1.2	12.6	ND	264	456	648	98	ND	322	ND
0930147-02 8418-69	24-Jul-09	L-N-19 090724-0200	ND	10300	ND	10.23	8	ND	234	ND	9.4	2310	ND	ND	16	ND	275	257	666	105	ND	546	ND
0931241-01 8418-70	31-Jul-09	L-NB-11-090731-0200	ND	9620	ND	10.09	20	ND	155	ND	6	2380	ND	2.6	20.8	ND	337	257	501	87	ND	333	ND
0932006-01 8418-71	04-Aug-09	L-NA-27-090804-0500	ND	16700	ND	10.1	ND	ND	224	ND	112	3530	ND	3.8	9.56	ND	478	402	475	115	ND	447	ND
0932092-01 8418-72	06-Aug-09	L-NB-12 090806-0500	ND	16700	ND	10.1	ND	ND	224	ND	112	3530	ND	3.8	9.56	ND	478	402	475	115	ND	447	ND
0933139-01 8418-73	13-Aug-09	L-NA-28-090813-0500	ND	1770	ND	10.2	2	ND	47.1	ND	11.2	3190	ND	4.2	6.75	ND	523	274	489	109	ND	635	ND
0933139-02 8418-74	13-Aug-09	L-NB-13-090813-0500	ND	1770	ND	10.2	2	ND	47.1	ND	11.2	3190	ND	4.2	6.75	ND	523	274	489	109	ND	635	ND
0935121-01 8418-75	26-Aug-09	L-NB-16-090826-0500	94	2760	ND	10.26	16	ND	334	ND	13.4	6540	ND	1.9	23.3	ND	985	397	473	112	ND	503	ND
0935203-01 8418-76	27-Aug-09	L-N-22-090827-0500	38	34	0.55	10.21	14	ND	223	ND	18.6	8780	ND	9.2	32.9	11	1300	559	529	157	ND	352	ND

Exceeds ROPEC Discharge Limit

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	BOD	Conductivity	Cyanide, total	pH	Total Suspended Solids	Sulphide	Total Kjeldahl Nitrogen	Formaldehyde	Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Phosphate as P	Sulphate	Aluminum	Antimony	Arsenic	Bismuth	Boron	Cadmium
Detection Limit			(mg/L)	(uS/cm)	(mg/L)	(pH unit)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
ROPEC Discharge Limit			2	5	0.04	0.05	2	0.04	20	0.1	0.1	5	0.1	0.1	0.05	1	5	10	1	10	5	50	1
0937006-01	08-Sep-09	L-N-23-090908-0500	ND	2620	ND	10.25	ND	ND	298	ND	5.8	4060	ND	9.1	32	ND	455	674	488	94	ND	385	ND
0937146-03	11-Sep-09	L-N-23-090908-0500 Dub 1			ND																		
0938169-01	17-Sep-09	L-NA-30-090917-500 Rough			ND																		
0938213-02	17-Sep-09	L-NA-30-090917-500 Normal TAT	17	2720	ND	10.3	6	ND	220	ND	268	4870	1.7	16.2	16.7	ND	731	471	316	66	ND	518	ND
0939014-01	18-Sep-09	L-ND-01-090918-0500			ND																		
0939014-01	18-Sep-09	L-NC-02-090921-0500			ND																		
0939013-01	21-Sep-09	L-NA-31-090921-0500		2220	ND	10.17	4	ND	197	ND	220	3830	1.2	7.5	9.96	ND	480	369	329	55	ND	177	ND
0939014-02	21-Sep-09	L-NA-31-090921-0500			ND																		
0939124-01	23-Sep-09	L-ND-02-090923-0500			1.45																		
0939171-01	24-Sep-09	L-NA-32-090924-0500			1.07																		
0940039-01	29-Sep-09	L-NC-04-090929-0500			0.03																		
0940066-01	30-Sep-09	L-NA-33-090930-0500	ND	27900	ND	10.19	8	ND	353	ND	10.3	5570	ND	1.2	7.37	ND	1080	394	736	134	ND	516	ND
0940100-01	01-Oct-09	L-ND-03-091001-0500			0.83																		
0940146-01	02-Oct-09	L-NA-34-091002-0500			1.15																		
0940146-02	02-Oct-09	L-NC-05-091002-0500			0.71																		
0941091-01	07-Oct-09	L-ND-09-091007-0500			0.461																		
0943039-01	20-Oct-09	L-NB-17-091020-0500			ND																		
0943041-01	20-Oct-09	L-NB-17-091020-0500	3	25500	ND	9.57	6	ND	184	ND	8.2	3610	2.2	2.7	7.44	ND	570	195	923	169	ND	1020	ND
0943174-01	23-Oct-09	L-ND-05-091023-0500	44	32100	0.3	10.05	7	ND	249	ND	11.1	5450	3	1.7	14.9	ND	1200	131	712	155	ND	616	ND
0943175-01	23-Oct-09	L-ND-05-091023-0500			ND																		
0944041-01	26-Oct-09	L-NC-07-091027-0500			ND																		
0944077-01	23-Oct-09	L-NB-18-091028-0500	ND	35100	ND	10.04	4	ND	429	ND	203	5240	1	2.9	11	ND	773	222	457	176	ND	399	ND
0944077-02	28-Oct-09	L-ND-06-091028-0500			ND																		
0944168-01	30-Oct-09	L-NC-08-091030			ND																		
0945099-03	09-Nov-09	L-ND-09-091109-0500			ND																		
0946004-01	09-Nov-09	L-ND-09-091109-0500			ND																		
0946092-02	11-Nov-09	L-NB-22-091111-1600			1.21																		
0946183-01	12-Nov-09	L-NC-10-091112-0500	16	37100	ND	10	5	ND	693		18.6	6150	1.9	ND	1.61	ND	982	498	3840	449	9	1320	ND
0946153-01	18-Nov-09	L-NC-12-091118-0500			0.856																		
75944	18-Nov-09	L-NC-12-091118-0500			0.959																		
760047	18-Nov-09	L-ND-12-091118-0500			ND																		
0948037-01	23-Nov-09	L-ND-15-091123-0500	ND	42800	ND	9.6	4	ND	357	ND	16.3	9650	ND	ND	ND	ND	1290	ND	ND	ND	ND	ND	ND
0948051-01	23-Nov-09	L-NB-27-091123-0500			ND																		
0948044-01	23-Nov-09	L-ND-15-091123-0500	ND	42800	ND	9.6	4	ND	357	ND	16.3	9650	ND	ND	ND	ND	1290	ND	ND	ND	ND	ND	ND
9542-1	30-Nov-09	L-ND-16-091130-0500	ND	43000	6.1	9.91	18	ND	509	ND	13.7	9110	ND	1.4	9.38	ND	1190	491	2510	584	ND	953	ND
0949001-01	02-Dec-09	Batch 03 Tank NC 0800			0.356					ND													
765476	03-Dec-09	Batch 04 Tank ND 0500			0.545					ND													
764591	15-Dec-09	Batch 06 Tank NC 05:00			0.366					0.3													
9599	21-Dec-09	Batch 05-NC-0500			<0.10					<0.01													
0949063-01	29-Dec-09	Batch 7 L-NB			1.49					<0.01													
764591	11-Jan-10	Batch II Tank NA			0.566					0.2													
9600	13-Jan-10	Batch II Tank NA			0.566					0.2													
0949100-01	16-Jan-10	BATCH 13 TANK NC	110	45300	1	9.61	29	<0.01	516	13	5190	3.89	3.02	3.52		676	8100	2210	100	<50	<1000	<10	
9675	25-Jan-10	Batch 14 TK NC 0500	<1	38400	<0.2	9.65	22	<0.01	301	0.24	10.4	5680	3.45	4.39	3.23		627	2700	1440	80	<50	1000	<10
766885	25-Jan-10	Batch 15 Tank NA	<1	39700	<0.10	9.38	27	<0.01	388	0.28	17.8	6570	3.75	6.62	3.63		781	900	1360	90	<50	1000	<10
0951028-01	01-Feb-10	Batch 08 Tank NA 0400	120	50200	<0.5	8.68	74	<0.01	647	<0.2	19.5	11200	2.53	2.43	4.98	<15	789	300	1120	90	<50	<5000	<10
0952004-01	Exceeds ROPEC Discharge Limit																						

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	BOD (mg/L)	Conductivity (uS/cm)	Cyanide, total (mg/L)	pH (pH unit)	Total Suspended Solids (mg/L)	Sulphide (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Formaldehyde (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate as N (mg/L)	Nitrite as N (mg/L)	Phosphate as P (mg/L)	Sulphate (mg/L)	Aluminum (ug/L)	Antimony (ug/L)	Arsenic (ug/L)	Bismuth (ug/L)	Boron (ug/L)	Cadmium (ug/L)
Detection Limit			2	5	0.04	0.05	2	0.04	20	0.1	0.1	5	0.1	0.05	1	5	10	1	10	10	5	50	1
ROPEC Discharge Limit			300		2	5.5-11	350	2	775	0.3						70	1500	50000	5000	1000	5000	25000	20
1001903 1002124 8011655 1002125	01-Feb-10	Batch 18 Tank ND 0500	<30	40900	<0.5	9.31	79	<0.01	350	0.24	13.2	7340	3.88	5.27	2.25	<15	828	1400	1100	90	<50	<5000	<10
8012419 1002039 1002040	02-Feb-10	BATCH 19 TANK NH	1	35100	0.08	9.13	5	<0.01		<0.2	12.8	6540	3.05	3.07	2.79		526	500	1050	90	<50	<5000	<10
1001901 1002124 8011655 1002131	01-Feb-10	Batch 20 Tank NB 0400			<0.5	9.66	59	0.02	211	<0.2	17.8	9940	2.86	4.37	1.63	<15	790	2400	950	80	<50	<5000	<10
1001904 1002127 1002128 8011655	01-Feb-10	Batch 21 Tank NC 0500	<30	15700	<0.5	9.42	49	0.01	288	<0.20	5.89	2150	1.38	1.09	1.64	<15	153	5800	290	<50	<50	<5000	<10
1002327 1002107 8012819 1002912	03-Feb-10	Batch 22 Tank NA			0.67					<0.20							2900	1120	100	<50	<5000	<10	
1002328 1002107 8012824 1002914	03-Feb-10	Batch 23 Tank NG			0.12					<0.2							12900	1850	110	<50	<5000	<10	
1002464 1002626 8014790 1002911 1002909	07-Feb-10	Batch 27 Tank NC	46	34000	0.15	9.57	126	<0.01	1130	<0.2	11.7	2960	4.23	0.81	9.38		451	9300	870	70	<50	1000	<10
1002523 8015247 1003393 1002654	09-Feb-10	Batch 26 Tank NA			0.31					0.46								2900	720	60	<50	1000	<10
1002314 8014172 1002672	05-Feb-10	Batch 24 Tank NF			1.7												1300	1370	80	<50	2000	<10	
8014604 1002664 1002447	05-Feb-10	Batch 25 TK ND 0500			0.17												3300	870	70	<50	1000	<10	
8018250 1003036 1003035	16-Feb-10	Batch 29 Tank ND 05:00			0.13					<0.2							6400	620	60	<50	2000	<10	
1003879 8017124 1003394 1003305 1003177	12-Feb-10 19-Feb-10 18-Feb-10	Batch 28 TK NC	<30	38200	0.14	9.36	46	<0.1	994	<0.2	7.79	2880	1.96	9.85	1.74	<15	564	3400	1400	90	<50	2000	<10
8020866 1003434 1003435 1003436	22-Feb-10	Batch 30 Tank ND 0500	44	38800	<0.5	9.22	134	<0.1	885 736	<0.2	10.6	2520	2.36	1.37	15.4	<15	547	2100	1120	<50	<50	1000	<10
1005365 8031982 1005368 1005366	17-Mar-10	Batch 33 Tank ND	292	27800	0.15	9.1	68	<0.01		<0.01	<5.00	1420	1.38	1.15	14.5	<15	261	800	280	<50	800	280	<50
1005519	19-Mar-10	Batch 31 Tank ND 05:00							406									1100	400	<50	<50	<1000	<10
1005372 8034223 1013128	23-Mar-10 25-Mar-10	Batch 32 TK NA 0500	180	25800	<0.05	8.75	14	ND (0.20)	318		0.4	6320	ND (1.0)	8.7	12.1	ND (10)	557						
1015103 1007058 1016037	7-Apr-10 9-Apr-10 12-Apr-10	Batch 32 Tank NB Batch 32 TK NB 04/12/10 @1500			0.02					0.39													
1006158 1006160 1006159	29-Mar-10	Batch 33 Tank NB	380	19800					483	<0.20	7.21	3500	1.4	0.89	7.43		1600	410	<50	<50	<1000	<10	
1006343 1015104 8040942	1-Apr-10 7-Apr-10	Batch 33 Tank NA			0.02 ND (1)				647														
1006182 1006183 1006184	29-Mar-10	Batch 34 TK NC	219	24200		9.36	6	<0.01		<0.20	9.71	3000	3.69	2.15	5.16	<15	712	3700	670	<50	<50	<1000	<10
1015004 8039637 1015004 8039637	2-Apr-10	Batch 34 Tank NC 05:00 Batch 34 Vanson Truck 05:00			ND (0.10) <1 ND (0.10) <1																		
1015060	6-Apr-10	Batch 35 Tank ND 0500			44.7													6130	559	28	ND (5)	536	ND (1)
8040952 1006805	7-Apr-10	Batch 35 TANK ND			0.6 (1)					0.06													
1015209	9-Apr-10	Batch 35 TK ND			0.18																		

Exceeds ROPEC Discharge Limit

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	BOD (mg/L)	Conductivity (uS/cm)	Cyanide, total (mg/L)	pH (pH unit)	Total Suspended Solids (mg/L)	Sulphide (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Formaldehyde (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate as N (mg/L)	Nitrite as N (mg/L)	Phosphate as P (mg/L)	Sulphate (mg/L)	Aluminum (ug/L)	Antimony (ug/L)	Arsenic (ug/L)	Bismuth (ug/L)	Boron (ug/L)	Cadmium (ug/L)
Detection Limit			2	5	0.04	0.05	2	0.04	20	0.1	0.1	5	0.1	0.1	0.05	1	5	10	1	10	5	50	1
ROPEC Discharge Limit			300		2	5.5-11	350	2	775	0.3						70	1500	50000	5000	1000	5000	25000	20
B040388 1015085	6-Apr-10 6-Apr-10	Batch 36 TANK NC			0.11 ND (0.10)													3980	603	34	ND (5)	752	ND (1)
1016074 1007974	14-Apr-10 16-Apr-10	Batch 36 TK NC 0415 Batch 36 Tank NC 1000			ND (0.10)					<0.2													
1015213 1016169 B042247 1015214 1007059	9-Apr-10	Batch 37 TK NA	ND (60)	30900	<0.3	9.30	9	ND (0.10)	390	<0.20	10.2	5110	1.8	ND (1.0)	1.88	ND (10)	836	7450	785	46	5	774	ND (1)
1016510 B044328	15-Apr-10	Batch 37 Tank NA 0500			ND (0.05) <0.3																		
1016072 1007622	14-Apr-10	Batch 38 TK NB 0415			<0.3				259	<0.20								3800		44	ND (5)	694	ND (1)
1016111 1017003	15-Apr-10 19-Apr-10	Batch 38 Tank NB 0500 Batch 38 TK NB 0530			0.09 <0.3																		
1017006 B046389 1008016	19-Apr-10	Batch 39 TK NC 05:30 Batch 39 TK NC			<0.3				283	<0.2								4940	650	97	ND (5)	674	ND (1)
1017094 B046323 1017005 1008015	21-Apr-10 19-Apr-10	Batch 39 TK NC 05:00 BATCH 40 TANK NB 07:00		ND (6)	ND (0.02) <0.3 11.2	9.44	9		1350	<0.2	8.3	4070	ND (1.0)	ND (1.0)	ND (0.50)	ND (10)	678	4740	747	127	ND (5)	532	ND (1)
1017099 1017095 1008328 B048023	21-Apr-10 20-Apr-10	Batch 40 TK NB 05:00 Batch 41 TK NA 1415 #1 Batch 41 TK NA 1415			0.09 12.2 1.3 0.59				205 384	<0.3							3290	973	359	ND (5)	529	ND (1)	
1018052 1009140 B052712 1018188 1009417	27-Apr-10 30-Apr-10 29-Apr-10 4-May-10	Batch 41 Tank NA 05:00 Batch 42 Tank NA 0500			2 40.5 <0.1	9.47	ND (2)	ND (0.20)	655	<0.20	1.9	197	0.1	0.2	1.01	ND (1)	44	2700	533	81	ND (5)	451	ND (1)
B053472 1009291 1009806	3-May-10 6-May-10	Batch 43 Tank NB 0500			0.4 <0.10 0.4					<0.2													
B056798 1009959 1019219	7-May-10	Batch 43 Tank NC 14:25	<230	20200	0.81 <0.3	9.06	ND (2)	ND (0.20)	392 571	<0.20	ND (5.0)	2370	ND (5.0)	ND (5.0)	3.52	ND (50)	408	1620	692	80	ND (5)	628	ND (1)
1020001 B057205 1010014	10-May-10	Batch 45 Tank NA			0.55 <0.3					<0.20								1410	725	77	ND (5)	605	ND (1)
1021088 1021089 B062284	18-May-10	Batch 46 Tank NA 11:00	292	22100	0.89 <0.3	8.64	7	ND (0.20)	365	<0.3	8	4300	ND (1.0)	1	3.27	ND (10)	625	983	794	78	ND (5)	629	ND (1)
1022011 B065241	25-May-10	Batch 47 Tank NB 05:00	740	23700	0.84 1	8.93	10	ND (0.20)	258	<0.1	ND (1.0)	4520	ND (1.0)	ND (1.0)	ND (0.50)	ND (10)	746	1930	808	93	ND (5)	476	ND (1)
1022011 B065241	25-May-10	Batch 48 Tank NB 05:00	ND (300)	18400	1.2 1	8.88	49	ND (0.20)	264	<0.1	3.7	3880	ND (1.0)	ND (1.0)	1.99	ND (10)	567	2430	865	65	ND (5)	689	ND (1)
1021577 B067453	28-May-10	Batch 49 Tank NA	103	13900	0.32 <1 <0.3 0.11	8.95	ND (2)	ND (0.20)	223	<0.02	6.9	3650	ND (1.0)	ND (1.0)	ND (0.50)	ND (10)	605	2110	1280	101	ND (5)	695	ND (1)
B075971 1025016 1025018	14-Jun-10	Batch 50 TK NA 0515			0.15 1 <1 0.38	8.96	2	ND (0.20)	418	0.02	ND (1.0)	3850	147	6.4	ND (0.50)	ND (10)	766	1060	1190	298	ND (5)	576	ND (1)
1026012 1026014 B079892	21-Jun-10	Batch 51 Tank NA 0500	ND (120)	24800	0.2 1 <1	8.74	2	ND (0.20)	464	<0.03	9.2	7010	ND (1.0)	ND (1.0)	0.52	ND (10)	726	585	647	208	ND (5)	660	ND (1)
1026010 B079863 B081319 1026110 1026111 1026112	21-Jun-10 23-Jun-10	Batch 52 Tank NB 0500 Batch 53 Tank NC			0.2 1 <1 0.38					<0.03	0.1												
1027007 B083825	28-Jun-10	Batch 54 Tank ND 05:00			0.06 ND (0.3)					ND (0.02)													
1027009 1027011 B083793	28-Jun-10	Batch 55 Tank NA 05:00	ND (60)	29100	0.09 ND (0.3) 0.99	9.11	20	ND (0.20)	530	ND (0.02)	7.6	9000	ND (0.1)	1.2	6.67	ND (1)	950	1780	1100	267	ND (5)	730	ND (1)
1027101 B084557	29-Jun-10	Batch 56 TKNB 1100			0.5																		
1027166 B085689	30-Jun-10	Batch 57 Tank NC 14:00			0.68 0.4					<0.04													
1028046 1028044 1028045 B087409	06-Jul-10	Batch 58 TK NA 0600	ND (12)	16200	0.26 0.4	8.98	ND (2)	ND (2.00)	578	ND (0.04)	ND (1.0)	476	ND (1.0)	ND (1.0)	0.56	ND (10)	80	1610	836	115	26	631	ND (1)
1028164 B089585	08-Jul-10	Batch 59 Tank NB 15:15			0.26 0.3					ND (0.02)													
1029009 1029011 1029010 B090897	12-Jul-10	Batch 60 Tank NC	6	16400	0.11 ND (0.3)	8.92	ND (2)	ND (0.20)	254	ND (0.02)	5.3	2990	2.7	ND (1.0)	3.07	ND (10)	515	993	567	98	ND (5)	484	ND (1)
1029114 B092722	14-Jul-10	Batch 61 Tank NA			0.81 0.5																		
1031019 1031020 B099095	24-Jul-10	Batch 62 Tank NA - 03:00	ND (12)	13200	0.32 ND (0.05)	9.15	3	ND (0.02)	250	ND (0.02)	2.4	2920	2.4	1.3	3.66	ND (10)	429	1500	395	71	ND (5)	250	ND (1)

Exceeds ROPEC Discharge Limit

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	BOD	Conductivity	Cyanide, total	pH	Total Suspended Solids	Sulphide	Total Kjeldahl Nitrogen	Formaldehyde	Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Phosphate as P	Sulphate	Aluminum	Antimony	Arsenic	Bismuth	Boron	Cadmium	
Detection Limit			(mg/L)	(uS/cm)	(mg/L)	(pH unit)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
ROPEC Discharge Limit			300	2	0.04	5.5-11	350	2	20	0.1	0.1	5	0.1	0.1	0.05	1	5	10	1	10	5	50	1	
1031139 B0A0824	27-Jul-10	Batch 63 Tank NB - 23:30	<12	1360	0.25 ND (0.3)	9.24	9	157	157	ND (0.02)	2.7	2700	3.7	2.2	19.3	<10	1500	50000	5000	1000	5000	25000	<1	
1032002 1032014 B0A3299	30-Jul-10	Batch 64 Tank NA - 3:00	ND (60)	17900	0.3 0.3	8.89	<2	282	282	0.1	2.4	3010	2.3	1.9	3.52	ND (10)	376	1590	510	65	ND (5)	241	ND (1)	
1032003 1032014 B0A3338	31-Jul-10	Batch 65 Tank NC - 22:30	ND (100)	22100	ND (0.01) ND (0.3)	9.04	4	369	369	ND (0.05)	4.7	2170	11.2	1.3	2.68	ND (10)	379	1550	570	103	ND (5)	320	ND (1)	
1033004 1033110 B0A8930	08-Aug-10 11-Aug-10 12-Aug-10	Batch 66 Tank NA	2	20900	2.34 1.6 2	8.93	4	219	219		4.1	2130	2.6	2.8	2.4	ND(10)	348	1220	376	88	ND(5)	259	ND(1)	
1033178 B0A8930	12-Aug-10	Batch 67 TKNB 2:00			0.32 ND (0.3)																			
1034003 1034068 1034068	16-Aug-10 17-Aug-10	Batch 68 Tank NC			13.5 ND (0.01)																			
1034035 1034037 1035156 1034180	16-Aug-10 25-Aug-10 19-Aug-10	Batch 69 TK ND 11:50	<60	21100	7.7 ND (0.01)	9.00	<2	436	436		7.4	2330	4.4	3.3	16	<10	505	1080 979	1180 936	255 84	<5 <5	1800 1250	<1 <1	
1042054 1042055 B03E3801	12-Oct-10	TKNC Batch 70 1445	ND (20)	30900	ND (0.01)	9.04	19	241	241	ND (0.1)	6.8	1960	ND (1.5)	ND (1)	25.6	ND (10)	443	801	568	78	ND (5)	167	3	
1042100 B0E4430	13-Oct-10	Batch 71 Tank ND 13:00	ND (12)	17300	ND (0.01)	8.99	4	93.7	93.7	ND (0.1)	1.6	821	4.7	ND (0.1)	13.8	ND (10)	135	642	440	83	ND (5)	ND (50)	ND (1)	
1042233 1043001	15-Oct-10 16-Oct-10	Batch 72 Tank NA 15:25 Batch 73 Tank NC 3:00			ND (0.02) ND (0.02)													1280	273	79	ND (5)	ND (50)	ND (1)	
1043060 B0E74927	18-Oct-10	Batch 74 Tank NB 22:30	<60	12500	0.01	8.67	6	506	506	0.01	6.1	2010	ND (5.0)	ND (1.0)	ND (0.50)	ND (10)	609	2320	378	49	ND (5)	70	ND (1)	
1043114 1043172	20-Oct-10 21-Oct-10	Batch 75 Tank ND 06:00 Batch 76 Tank NA 08:50			0.03 0.06			405 421																
1044004 1044223	24-Oct-10 28-Oct-10	Batch 77 Tank NB 01:00 Batch 78 Tank NC 02:00			0.04 0.03			605 607																
1045002 1045006	30-Oct-10	Batch 79 Tank ND 08:00			0.02 0.02			340 509																
1045015 B0F5240	01-Nov-10	Batch 80 TK NA 03:30	20	25000	0.02	9.03	ND(2)	ND(0.2)	495		28.9	2690	3.6	4.8	63.6	ND(10)	877	1200	714	287	ND(5)	743	ND(1)	
1045061 1045115	02-Nov-10 03-Nov-10	Batch 81 Tank NB 04:15 Batch 82 Tank NC 02:15			0.02 0.07			602 517																
1045155 1045212	04-Nov-10 04-Nov-10	Batch 82 Tank NA Batch 83 Tank ND 21:30			0.07 0.1			619 579																
1045213 1046001	05-Nov-10	Batch 84 Tank NC 06:00			0.13 0.08			446 495																
1046002 B0F9570	06-Nov-10	Batch 85 Tank NA 23:55	ND (200)	26000	0.08	8.99	7	495	495	0.079	23.8	2990	5.5	ND (1.0)	15.1	ND (10)	1140	1530	1120	171	ND (5)	1030	ND (1)	
1046218 1046340	06-Nov-10 09-Nov-10	Batch 86 Tank NB 05:00 Batch 87 Tank ND 05:00			0.09 0.12																			
1046078 1046079	10-Nov-10 10-Nov-10	Batch 87 Tank ND 05:00 Batch 88 Tank NC 05:00			0.18 0.15																			
1046208 B0G3490	12-Nov-10 15-Nov-10	Batch 89 Tank NA 05:30 BATCH 90 TANK ND 05:00			0.16	9.02	6	ND (0.20)	602	0.031	32.6	3690	5.0	ND (1.0)	6.50	ND (10)	1060	1260	888	128	ND (5)	1120	ND (1)	
1047006 1047056	15-Nov-10 15-Nov-10	Batch 91 Tank NC 05:00 Batch 92 Tank NB 21:00	ND (40)	27400	0.09 0.34																			
1047099 1047147	17-Nov-10 18-Nov-10	Batch 93 Tank NA 5:00 Batch 94 Tank ND 05:00			0.38 0.42																			
1047204 1048051 1048064	19-Nov-10 23-Nov-10 24-Nov-10	Batch 95 Tank NC 08:40 Batch 95 Tank ND 07:00 Batch 95 TK ND 05:30			1.96 0.65													801	679	126	ND (5)	698	ND (1)	
1048002 B0G8256 1048004 1048083	22-Nov-10 24-Nov-10	Batch 96 Tank NB 05:00 Batch 96 TK NA 05:30	ND (40)	10800	2.24 0.56	9.02	14	ND (0.20)	420	<0.4	26.7	3250	6.1	ND (1.0)	ND (0.50)	ND (10)	859	2130	745	134	ND (5)	899	ND (1)	
1048118 1049001	25-Nov-10 29-Nov-10	Batch 97 Tank NB 05:00 Batch 98 TK NC 05:00			1.17 0.87																			
1049002 1049227	29-Nov-10	Batch 98 TK NC 05:00	ND (100)	38000	0.87	9.52	16	ND (0.20)	357		25.1	4440	5.6	3.8	27.8	ND (10)	1120	1850	789	188	10	393	ND (1)	
1049228 1029452 1050001	02-Dec-10 05-Dec-10	Batch 99 Tank NA 05:15 Batch 99 Tank NA Batch 99 Tank NC 21:15	64	24000	1.05 0.43	9.42	ND (2)	ND (0.20)	262	0.05	17.7	4330	5.2	2.5	13.0	ND (10)	797	2730	1050	432	21	761	ND (1)	
1050001 1050002 1050136 1050098 L961730 1050176	05-Dec-10 06-Dec-10 08-Dec-10 08-Dec-10 09-Dec-10 10-Dec-10	Batch 100 Tank NB 21:15 Batch 100 Tank NB 4:45 Batch 100 Tank NB 19:40 Batch 100 Tank NB Batch 100 Tank NB Batch 100 Tank NG 6:25			0.32 0.40														1220	971	183	11	1700	ND (1)
1050002 1050098 L961730 1050177	05-Dec-10 06-Dec-10 08-Dec-10 10-Dec-10	Batch 101 Tank ND 4:00 Batch 101 Tank ND 21:15 Batch 101 Tank ND Batch 101 Tank ND 4:45			5.01 0.38					0.1														
1050137 L961730 1050178	08-Dec-10 09-Dec-10 10-Dec-10	Batch 103 Tank NC 19:40 Batch 103 Tank NC 04:45 Batch 103 Tank NC Batch 103 Tank NC 4:45	ND (120)	38000	0.56	9.24	22	69.94	69.94	0.0643	40.4	14700	14.6	4.3	ND (0.50)	ND (10)	1200	2350	1520	231	6	2230	ND (1)	
Exceeds ROPEC Discharge Limit																								

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	BOD (mg/L)	Conductivity (uS/cm)	Cyanide, total (mg/L)	pH (pH unit)	Total Suspended Solids (mg/L)	Sulphide (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Formaldehyde (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate as N (mg/L)	Nitrite as N (mg/L)	Phosphate as P (mg/L)	Sulphate (mg/L)	Aluminum (ug/L)	Antimony (ug/L)	Arsenic (ug/L)	Bismuth (ug/L)	Boron (ug/L)	Cadmium (ug/L)
Detection Limit			2	5	0.04	0.05	2	0.04	20	0.1	0.1	5	0.1	0.05	1	5	10	1	10	5	50	1	
ROPEC Discharge Limit			300		2	5.5-11	350	2	725	0.3						70	1500	50000	5000	1000	5000	25000	20
1030229 1051005	13-Dec-10	Batch 104 Tank NA 05:00 Batch 104 Tank NA 05:00	ND (60)	25800	0.16	9.23	ND (2)		340.6	0.22 0.077	29.9	5290	7.9	1.0	6.90	ND (10)	786	1470	1260	181	ND (5)	1450	ND (1)
1051003 1051072	13-Dec-10	Batch 105 Tank ND 05:00 Batch 105 Tank ND 05:00(Spiked)			1.88													996	1290	133	ND (5)	1370	ND (1)
1051002	13-Dec-10	Batch 106 Tank NB 05:00			1.85													1080	1580	204	ND (5)	1870	ND (1)
1051148 1030509	16-Dec-10 16-Dec-10	Batch 107 Tank NA 07:00 Batch 107 Tank NA 07:00	17	17400	0.70	9.03	49		297.1		28.8	4030	7.3	ND (1.0)	6.29	ND (10)	527	923	1720	100	6	2940	ND (1)
1051188	16-Dec-10	Batch 108 Tank NB 22:35			0.85					<0.04								511	1070	73	ND (5)	1500	ND (1)
1052001 1965461	20-Dec-10 21-Dec-10	Batch 109 Tank ND 07:20 Batch 109 Tank ND - 17:15	21	18000	0.45	8.41	ND (2)		266.3		28.5	4480	3.5	ND (1.0)	5.73	ND (10)	700	199	1040	98	ND (5)	1770	ND (1)
1965461 1052047	21-Dec-10 21-Dec-10	Batch 110 Tank NC - 17:15 Batch 110 Tank NC 05:00			0.35					0.0056 0.0055													
1031005 1052111	22-Dec-10 22-Dec-10	Batch 111 Tank NA Batch 111 Tank NA			0.36					<0.04								265	1060	52	ND (5)	1970	ND (1)
Exceeds ROPEC Discharge Limit																		272	1020	59	ND (5)	2410	ND (1)

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Tin	Titanium	Vanadium	Zinc	Benzene	Bromo dichloro methane	Bromoform	
			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
Detection Limit			50	5	5	1	50	0.1	5	5	5	1	1	10	10	10	20	0.5	0.4	0.5	
ROPEC Discharge Limit			5000	5000	3000	5000	5000	1	5000	3000	5000	5000	5000	5000	5000	5000	3000	10	350	630	
0921002-01 8418-24	17-May-09	L-NA-6	ND	ND	ND	ND	ND	0.1	12	7	5	ND	ND	5000	5000	15	3000	ND	ND	ND	
0921002-02 8418-25	17-May-09	L-NA-7	ND	ND	5	ND	ND	0.1	13	ND	6	ND	ND		19	16	ND	ND	ND	ND	
0921135-01 8418-34	21-May-09	L-NA-12	ND	5	ND	ND	ND	ND	20	7	8	ND	ND	ND	30	13	ND	0.6	ND	ND	
0921136-01 8418-35	21-May-09	L-NA-13	ND	5	ND	ND	ND	ND	20	7	7	ND	ND	ND	31	13	ND	ND	ND	ND	
0922108-01 8418-38	27-May-09	L-NA-15		10	14	ND	ND	ND	172	8	14	ND	ND	ND	22	11	88	ND	ND	ND	
0923120-03 8418-43	03-Jun-2009	L-NB-2	ND	14	31	1	ND	ND	207	6	13	3	ND	ND	13	12	178	ND	ND	ND	
0923120-02 8418-42	03-Jun-2009	L-NA-17	ND	14	7	1	ND	ND	263	5	9	4	ND	ND	17	15	28	ND	ND	ND	
0924087-02 8418-46	10-Jun-2009	L-NB-04	ND	11	ND	ND	ND	ND	234	ND	17	ND	ND	ND	25	ND	ND	ND	ND	ND	
0924087-05 8418-47	11-Jun-2009	L-NB-04 Doubt																			
0924217-02 8418-47	12-Jun-09	L-NA-20	ND	11	56	ND	ND	ND	176	ND	51	ND	ND	ND	24	17	ND	ND	ND	ND	
0924217-03 8418-48	16-Jun-09	L-NA-20																			
0925004-14 8418-48	15-Jun-09	L-NA-21	153	10	54	ND	ND	ND	136	ND	25	1	ND	17	44	49	3260	ND	ND	ND	
0925004-16 8418-49	17-Jun-09	L-NA-21															129				
0925004-17 8418-50	17-Jun-09	L-NA-21															129				
0925171-01 8418-50	19-Jun-09	L-N-12	94	12	898	ND	ND	ND	102	56	84	1	ND	ND	26	26	161	0.7	ND	ND	
0926001-01 8418-51	22-Jun-09	L-N-13	73	10	70	ND	ND	ND	97	22	50	ND	ND	ND	64	24	222	ND	ND	ND	
0926001-02 8418-52	23-Jun-09	L-N-13																			
0926107-02 8418-52	24-Jun-09	L-NB062409																			
0926107-01 8418-52	25-Jun-09	L-NB-6	51	ND	31	ND	ND	ND	8	ND	51	ND	ND	ND	40	14	26	ND	ND	ND	
0926143-02 8418-53	26-Jun-09	L-NA-22 02:00	ND	ND	30	ND	ND	ND	28	ND	43	ND	ND	ND	17	14	ND	ND	ND	ND	
0927008-04 8418-55	28-Jun-09	L-NA-22-090629																			
0927009-02 8418-55	27-Jun-09	L-NB-07-090627_02:40	ND	ND	30	ND	ND	ND	72	ND	23	ND	ND	ND	11	14	ND	ND	ND	ND	
0927009-03 8418-55	27-Jun-09	L-NB-07-090629-0800																			
0927009-01 8418-54	27-Jun-09	L-NB-07-090627	ND	ND	76	ND	ND	ND	78	8	32	6	ND	ND	14	14	932	ND	ND	ND	
0928113-01 8418-59	08-Jul-09	L-NB-08 08072009 16:00	ND	ND	9	ND	ND	ND	120	ND	46	ND	ND	ND	12	23	ND	ND	ND	ND	
0928155-01 8418-60	10-Jul-09	L-NB-08-10072009 0500	ND	ND	14	ND	ND	ND	123	ND	164	13	ND	ND	10	21	ND	ND	ND	ND	
0929003-01 8418-60	13-Jul-09	L-NA-23-090713-0200	81	ND	22	ND	ND	ND	143	ND	119	8	ND	ND	16	23	183	ND	ND	ND	
0929003-02 8418-61	13-Jul-09	L-N-16-090713-0200	96	ND	224	ND	ND	ND	124	46	126	1	ND	ND	20	26	1320	ND	ND	ND	
0929074-01 8418-62	15-Jul-09	L-NA-24-090715-0200	82	ND	49	ND	ND	ND	80	ND	52	1	ND	ND	17	23	345	ND	ND	ND	
0929106-01 8418-63	16-Jul-09	L-NB-09-090716-0200	93	ND	149	2	ND	ND	132	ND	292	15	ND	ND	18	28	2430	ND	ND	ND	
0929130-01 8418-64	17-Jul-09	L-N-17-090717-0200	64	ND	144	6	ND	ND	86	132	37	ND	ND	ND	27	19	549	ND	ND	ND	
0930001-01 8418-65	20-Jul-09	L-NA-25 090720-0200	71	ND	146	ND	ND	ND	103	7	483	ND	ND	ND	14	19	1370	ND	ND	ND	
0930001-02 8418-66	20-Jul-09	L-N-18 090720-0200	66	ND	92	ND	ND	ND	106	15	136	ND	ND	ND	13	18	302	ND	ND	ND	
0930115-01 8418-67	23-Jul-09	L-NB-10 090723-0200	ND	ND	26	ND	ND	ND	464	ND	42	ND	ND	ND	32	30	282	ND	ND	ND	
0930147-01 8418-68	24-Jul-09	L-NA-26 090724-0200	113	ND	95	ND	ND	ND	211	ND	33	ND	ND	ND	20	26	511	ND	ND	ND	
0930147-02 8418-69	24-Jul-09	L-N-19 090724-0200	103	ND	128	ND	ND	ND	184	13	52	2	ND	ND	16	21	153	ND	ND	ND	
0931241-01 8418-70	31-Jul-09	L-NB-11-090731-0200	50	ND	20	ND	ND	ND	172	ND	33	1	ND	ND	18	21	221	ND	2	ND	
0932006-01 8418-71	04-Aug-09	L-NA-27-090804-0500																			
0932092-01 8418-72	06-Aug-09	L-NB-12 090806-0500																			
0933139-01 8418-73	13-Aug-09	L-NA-28-090813-0500	104	ND	19	ND	ND	ND	146	ND	62	9	ND	ND	33	60	795	ND	ND	ND	
0933139-02 8418-74	13-Aug-09	L-NB-13-090813-0500	249	ND	179	ND	ND	ND	177	ND	68	ND	ND	ND	28	60	13400	ND	ND	ND	
0935121-01 8418-75	26-Aug-09	L-NB-16-090826-0500	164	8	57	ND	ND	ND	179	ND	82	ND	ND	ND	72	42	1460	ND	ND	ND	
0935121-02 8418-76	27-Aug-09	L-N-22-090827-0500	563	11	4399	2	ND	ND	222	57	62	ND	ND	ND	106	147	433	ND	0.8	ND	
0935203-01 8418-77	27-Aug-09	L-N-22-090827-0500	Exceeds ROPEC Discharge Limit																		

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Tin	Titanium	Vanadium	Zinc	Benzene	Bromo dichloro methane	Bromoform
			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Detection Limit			50	5	5	1	50	0.1	5	5	5	1	1	10	10	10	20	0.5	0.4	0.5
ROPEC Discharge Limit			5000	5000	3000	5000	5000	1	5000	3000	5000	5000		5000	5000	5000	3000	10	350	630
0937006-01	08-Sep-09	L-N-23-090908-0500																		
0937006-02	08-Sep-09	L-N-23-090908-0500	71	14	2100	6	ND	ND	223	49	46	ND		ND	57	56	251	0.5	ND	ND
0937146-03	11-Sep-09	L-N-23-090908-0500 Dub 1			159															
0938169-01	17-Sep-09	L-NA-30-090917-500 Rough																		
0938169-02	17-Sep-09	L-NA-30-090917-500 Normal TAT	103	11	60	ND	ND	ND	366	ND	54	1		ND	68	37	2170	ND	ND	ND
0938213-02	18-Sep-09	L-ND-01-090918-0500																		
0939014-01	18-Sep-09	L-NC-02-090921-0500																		
0939013-01	21-Sep-09	L-NA-31-090921-0500	ND	ND	376	2	ND	ND	210	ND	38	2		21	55	ND	258	ND	ND	ND
0939014-02	21-Sep-09	L-NA-31-090921-0500																		
0939124-01	23-Sep-09	L-ND-02-090923-0500																		
0939171-01	24-Sep-09	L-NA-32-090924-0500																		
0940039-01	29-Sep-09	L-NC-04-090929-0500																		
0940066-01	30-Sep-09	L-NA-33-090930-0500	550	ND	1370	4	ND	ND	234	ND	62	ND		ND	113	157	2290	ND	ND	ND
0940100-02	01-Oct-09	L-ND-03-091001-0500																		
0940146-01	02-Oct-09	L-NA-34-091002-0500																		
0940146-02	02-Oct-09	L-NC-05-091002-0500																		
0941091-01	07-Oct-09	L-ND-091007-0500																		
0943039-01	20-Oct-09	L-NB-17-091020-0500	91	ND	581	1160	ND	ND	337	28	47	ND		11	152	117	1750	ND	ND	ND
0943174-01	23-Oct-09	L-ND-05-091023-0500	130	ND	238	860	ND	ND	488	54	56	ND		22	245	236	1130	ND	0.8	ND
0943175-01	23-Oct-09	L-ND-05-091023-0500																		
0944041-01	26-Oct-09	L-NC-07-091027-0500																		
0944077-01	23-Oct-09	L-NB-18-091028-0500	140	ND	242	500	ND	ND	92	170	14	1		10	88	241	4970	ND	1.1	ND
0944077-02	28-Oct-09	L-ND-06-091028-0500																		
0944168-01	30-Oct-09	L-NC-08-091030																		
0945099-03	09-Nov-09	L-ND-09-091109-0500																		
0946004-01	11-Nov-09	L-NB-22-091111-1600	134	ND	25	480	ND	ND	118	10	71	ND		ND	170	221	2910			
0946092-02	12-Nov-09	L-NC-10-091112-0500						ND										ND	ND	ND
0946183-01	12-Nov-09	L-NC-10-091112-0500	127	ND	26	1680	ND	ND	125	ND	65	ND		26	199	248	1870			
0946153-01	18-Nov-09	L-NC-12-091117-0500	168	ND	534	397	ND	ND	144	12	50	1		54	232	288	2430			
759604	18-Nov-09	L-ND-12-091118-0500	ND	ND	830	930	30	ND	90	ND	ND	ND		200	ND	1940				
760047	18-Nov-09	L-ND-12-091118-0500																		
0948037-01	23-Nov-09	L-ND-15-091123-0500	ND	ND	9	ND	108	ND	ND	12	ND	ND		ND	ND	ND	ND			
0948051-01	23-Nov-09	L-NB-27-091123-0500	158	6	53	188	ND	ND	105	12	49	ND		104	263	235	2730			
0948051-02	23-Nov-09	L-NB-27-091123-0500																		
9542-1	30-Nov-09	LND-16-091130-0500	144	ND	63	162	ND	ND	103	ND	48	3		40	201	206	2050	ND	ND	ND
0949001-01	02-Dec-09	Batch 03 Tank NC 0800	ND	ND	325	153	ND	ND	98	ND	ND	10		40	183	<10	2810			
765476	03-Dec-09	Batch 04 Tank ND 0500	<50	6	101	144	<50		38	5	<5	3		19	156	<10	814			
9599	15-Dec-09	Batch 06 Tank NC 05-00	<50	5	40	229	<50		129	8	<5	<1		83	246	<10	2200			
0949063-01	21-Dec-09	Batch 05-NC-0500	<50	<5	74	269	<50		197	<5	<5	<1		49	431	<10	2620			
764591	29-Dec-09	Batch 7 L-NB	<50	<5	165	216	<50		108	6	<5	<1		98	244	<10	2640			
9600	11-Jan-10	Batch II Tank NA	<50	<100	130	440	50	<0.1	130	20	<50	<100		<100	<1000	<50	2880			
0949100-01	16-Jan-10	BATCH 13 TANK NC	<50	<10	1530	460	30	<0.1	140	<10	<50	<10		200	<1000	<50	1130	<0.5	1	<0.4
9675	25-Jan-10	Batch 14 TK NC 0500	<50	<10	840	450	30	<0.1	130	<10	<50	<10		<100	<1000	<50	2580	<0.5	2.2	<0.4
766885	25-Jan-10	Batch 15 Tank NA	60	<10	470	490	50	<0.1	160	20	<50	<10		<100	<1000	<50	2390	<0.5	2.6	<0.4
0951028-01	01-Feb-10	Batch 08 Tank NA 0400	20	<5	50	70	20	<0.1	80	<10	<50	<10		<100	<1000	<50	530	<0.5	<0.3	<0.4
0952004-01	Exceeds ROPEC Discharge Limit																			

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	Chromium (ug/L)	Cobalt (ug/L)	Copper (ug/L)	Lead (ug/L)	Manganese (ug/L)	Mercury (ug/L)	Molybdenum (ug/L)	Nickel (ug/L)	Selenium (ug/L)	Silver (ug/L)	Thallium (ug/L)	Tin (ug/L)	Titanium (ug/L)	Vanadium (ug/L)	Zinc (ug/L)	Benzene (ug/L)	Bromo dichloro methane (ug/L)	Bromoform (ug/L)
Detection Limit			50	5	5	1	50	0.1	5	5	5	1	1	10	10	10	20	0.5	0.4	0.5
ROPEC Discharge Limit			5000	5000	3000	5000	5000	1	5000	3000	5000	5000	1	5000	5000	5000	3000	10	350	630
1001903 1002129 8011655 1002125	01-Feb-10	Batch 18 Tank ND 0500	<20	<5	620	190	10	<0.1	80	<10	<50	<10	<100	<1000	<50	1390	<0.5	2.1	<0.4	
8012419 1002039 1002040	02-Feb-10	BATCH 19 TANK NH	20	<5	70	350	30	<0.1	70	<10	<50	<10	<100	<50	<50	2460	<0.5	0.8	<0.4	
1001901 1002124 8011655 1002131	01-Feb-10	Batch 20 Tank NB 0400	30	<5	60	50	<10	<0.1	70	<10	<50	<10	<100	<1000	<50	450	<0.5	<0.3	<0.4	
1001904 1002127 1002128 8011655	01-Feb-10	Batch 21 Tank NC 0500	<20	<5	90	20	<10	<0.1	30	<10	<50	<10	<100	<1000	<50	220	<0.5	<0.3	<0.4	
1002327 1002107 8012819 1002912	03-Feb-10	Batch 22 Tank NA	<20	<5	220	130	20	<0.1	90	<10	<50	<10	<100	<1000	<50	2160	<0.5	9.7	1.9	
1002328 1002107 8012824 1002914	03-Feb-10 03-Feb-10	Batch 23 Tank NG Batch 23 Tank NG	40	<5	1080	70	20	<0.1	110	<10	<50	<10	<100	<1000	<50	1040	<0.5	1.7	0.4	
1002464 1002626 8014790 1002911 1002909	07-Feb-10	Batch 27 Tank NC	<50	<10	530	40	10	<0.1	60	<10	<50	<10	<100	<1000	<50	1680	<0.5	<0.3	<0.4	
1002523 8015247 1003393 1002654	09-Feb-10	Batch 26 Tank NA	<50	<10	310	20	<10	<0.1	70	<10	<50	<10	<100	<1000	<50	800	<0.5	0.8	<0.4	
1002314 8014172 1002672	05-Feb-10 10-Feb-10	Batch 24 Tank NF Batch 24 Tank NF	<50	<10	230	390	40	<0.5	90	10	<50	<10	200	<1000	<50	6380	<0.5	29.3	7.4	
8014604 1002664 1002447	05-Feb-10	Batch 25 TK ND 0500	50	<10	280	20	<10	<0.5	80	<10	<50	<10	<100	<1000	<50	270	<0.5	<0.3	<0.4	
8018250 1003036 1003035	16-Feb-10	Batch 29 Tank ND 05:00	<50	<10	630	50	10	<0.5	80	<10	<50	<10	<100	<1000	<50	1270	<0.5	0.8	<0.4	
1002879 8017124 1003394 1003305 1003177	12-Feb-10 19-Feb-10 18-Feb-10	Batch 28 TK NC	<50	<10	890	30	20	<0.1	100	20	<50	<10	<100	<1000	<50	**	<0.5	<0.3	<0.4	
8020866 1003434 1003435 1003436	22-Feb-10	Batch 30 Tank ND 0500	<50	<10	660	20	<10	<0.1	140	10	70	<10	<100	<1000	<50	560	<0.5	<0.3	<0.4	
1005365 8031982 1005368 1005366	17-Mar-10	Batch 33 Tank ND	<20	<5	410	<10	<10	<1	60	<10	<50	<10	<100	<1000	<50	130	<0.5	<0.3	<0.4	
1005519	19-Mar-10	Batch 31 Tank ND 05:00	<50	<10	860	<10	<10	<0.5	80	<10	<50	<10	<100	<1000	<50	110	<0.5	<0.3	<0.4	
1005372 8034223 1013128	23-Mar-10 25-Mar-10	Batch 32 TK NA 0500	<50	<10	860	<10	<10	ND (0.1)												
1015103 1007058	7-Apr-10 9-Apr-10	Batch 32 Tank NB																		
1016037	12-Apr-10	Batch 32 TK NB 04/12/10 @1500																		
1006158 1006160 1006159	29-Mar-10	Batch 33 Tank NB	<50	<10	870	<10	<10	<0.5	110	10	<50	<10	<100	<1000	<50	140	<0.5	<0.3	<0.4	
1006343 1015104 8040942	1-Apr-10 7-Apr-10	Batch 33 Tank NA																		
1006182 1006183 1006184	29-Mar-10	Batch 34 TK NC	<50	<10	350	10	<10	<0.5	80	<10	<50	<10	<100	<1000	<50	300	<0.5	<0.3	<0.4	
1015004 8039637 1015004 8039637	2-Apr-10	Batch 34 Tank NC 05:00 Batch 34 Vanson Truck 05:00																		
1015060	6-Apr-10	Batch 35 Tank ND 0500	ND (50)	ND (5)	472	6	ND (50)		40	ND (5)	31	ND (1)		ND (10)	12	ND (10)	132	ND (0.5)	ND (0.4)	ND (0.5)
8040952 1006805	7-Apr-10	Batch 35 TANK ND																		
1015209	9-Apr-10	Batch 35 TK ND																		

Exceeds ROPEC Discharge Limit

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Tin	Titanium	Vanadium	Zinc	Benzene	Bromo dichloro methane	Bromoform	
			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
Detection Limit			50	5	5	1	50	0.1	5	5	5	1	1	10	10	10	20	0.5	0.4	0.5	
ROPEC Discharge Limit			5000	5000	3000	5000	5000	1	5000	3000	5000	5000	1	5000	5000	5000	3000	10	350	630	
B040388 1015085	6-Apr-10 6-Apr-10	Batch 36 TANK NC	ND (50)	ND (5)	428	9	ND (50)		64	ND (5)	31	ND (1)		ND (10)	17	ND (10)	208				
1016074 1007974	14-Apr-10 16-Apr-10	Batch 36 TK NC 0415 Batch 36 Tank NC 1000																			
1015213 1016169 B042247 1015214 1007059	9-Apr-10	Batch 37 TK NA	ND (50)	ND (5)	399	16	ND (50)		56	ND (5)	26	ND (1)		13	34	ND (10)	271		ND (0.5)	ND (0.4)	ND (0.5)
1016110 B044328	15-Apr-10	Batch 37 Tank NA 0500																			
1016072 1007622	14-Apr-10	Batch 38 TK NB 0415	ND (50)	ND (5)	217	10	ND (50)		30	ND (5)	12	ND (1)		ND (10)	19	ND (10)	201				
1016111 1017003	15-Apr-10 19-Apr-10	Batch 38 Tank NB 0500 Batch 38 TK ND 0530																			
1017006 B046389 1008016 1017094	19-Apr-10	Batch 39 TK NC 05:30 Batch 39 TK NC Batch 39 TK NC 05:00	ND (50)	ND (5)	319	54	ND (50)		49	ND (5)	ND (5)	ND (1)		19	135	ND (10)	609				
B046323 1017005 1008015	19-Apr-10	BATCH 40 TANK NB 07:00	ND (50)	7	128	70	ND (50)		34	16	29	ND (1)		19	159	ND (10)	669	ND (0.5)	ND (0.4)	ND (0.5)	
1017099 1017095 1008328 B048023	21-Apr-10 20-Apr-10	Batch 40 TK NB 05:00 Batch 41 TK NA 1415 #1 Batch 41 TK NA 1415	170	16	233	792	67		42	7	34	ND (1)		32	400	383	1220				
1018052 1009140 B052712 1018188 1009417	27-Apr-10 30-Apr-10 29-Apr-10 4-May-10	Batch 41 Tank NA 05:00 Batch 42 Tank NA 0500	ND (50)	9	1530	46	ND (50)	ND (0.1)	35	ND (5)	31	ND (1)		ND (10)	56	ND (10)	301	ND (0.5)	ND (0.4)	ND (0.5)	
B053472 1009291 1009806	3-May-10 6-May-10	Batch 43 Tank NB 0500																			
B056798 1009959 1019219	7-May-10	Batch 43 Tank NC 14:25	ND (50)	6	762	4	ND (50)	ND (0.1)	37	ND (5)	57	ND (1)		ND (10)	16	ND (10)	103	ND (0.5)	ND (0.4)	ND (0.5)	
1020001 B057205 1010014	10-May-10	Batch 45 Tank NA	ND (50)	5	816	10	ND (50)		39	ND (5)	49	ND (1)		ND (10)	15	ND (10)	103				
1021088 1021089 B062284	18-May-10	Batch 46 Tank NA 11:00	ND (50)	6	208	6	ND (50)	ND (0.1)	58	9	42	ND (1)		ND (10)	35	ND (10)	71	ND (0.5)	ND (0.4)	ND (0.5)	
1022011 B065241	25-May-10	Batch 47 Tank NB 05:00	ND (50)	16	457	18	ND (50)		28	ND (5)	23	ND (1)		ND (10)	56	ND (10)	100	ND (0.5)	ND (0.4)	ND (0.5)	
1022011 B065241	25-May-10	Batch 48 Tank NB 05:00	ND (50)	10	541	10	ND (50)		25	9	26	ND (1)		ND (10)	14	ND (10)	154	ND (0.5)	ND (0.4)	ND (0.5)	
1022157 B067453	28-May-10	Batch 49 Tank NA	ND (50)	7	253	6	ND (50)	ND (0.1)	33	ND (5)	32	ND (1)		ND (10)	18	ND (10)	97	ND (0.5)	ND (0.4)	ND (0.5)	
B075971 1025016 1025018	14-Jun-10	Batch 50 TK NA 0515																			
1026012 1026014 B079892	21-Jun-10	Batch 51 Tank NA 0500	168	6	86	15	ND (50)	ND (0.1)	35	ND (5)	50	ND (1)		ND (10)	772	368	107	ND (0.5)	ND (0.4)	ND (0.5)	
1026010 B079863	21-Jun-10	Batch 52 Tank NB 0500	134	13	243	6	ND (50)	ND (0.1)	23	ND (5)	35	ND (1)		ND (10)	178	169	113	ND (0.5)	ND (0.4)	ND (0.5)	
B081319 1026110 1026111 1026112	23-Jun-10	Batch 53 Tank NC	ND (50)	13	381	26	ND (50)	0.1	21	5	36	ND (1)		ND (10)	390	11	103	ND (0.5)	ND (0.4)	ND (0.5)	
1027007 B083825	28-Jun-10	Batch 54 Tank ND 05:00																			
1027009 1027011 B083793	28-Jun-10	Batch 55 Tank NA 05:00	ND (50)	10	547	29	ND (50)	0.2	32	13	14	ND (1)		ND (10)	322	ND (10)	150	ND (0.5)	ND (0.4)	ND (0.5)	
1027101 B084557	29-Jun-10	Batch 56 TKNB 1100																			
1027166 B085689	30-Jun-10	Batch 57 Tank NC 14:00																			
1028046 1028044 1028045 B087409	06-Jul-10	Batch 58 TK NA 0600	ND (50)	ND (5)	356	7	ND (50)	ND (0.1)	30	14	16	24		ND (10)	46	ND (10)	52	ND (0.5)	ND (0.4)	ND (0.5)	
1028164 B089585	08-Jul-10	Batch 59 Tank NB 15:15																			
1029009 1029011 1029010 B090897	12-Jul-10	Batch 60 Tank NC	ND (50)	ND (5)	330	8	ND (50)	ND (0.1)	32	13	12	ND (1)		ND (10)	50	ND (10)	51	ND (0.5)	ND (0.4)	ND (0.5)	
1029114 B092722	14-Jul-10	Batch 61 Tank NA																			
1031019 1031020 B099095	24-Jul-10	Batch 62 Tank NA - 03:00	ND (50)	ND (5)	262	3	ND (50)	ND (0.1)	14	12	17	1		ND (10)	31	ND (10)	ND (20)				

Exceeds ROPEC Discharge Limit

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Tin	Titanium	Vanadium	Zinc	Benzene	Bromo dichloro methane	Bromoform
Detection Limit			(ug/L) 50	(ug/L) 5	(ug/L) 5	(ug/L) 1	(ug/L) 50	(ug/L) 0.1	(ug/L) 5	(ug/L) 5	(ug/L) 5	(ug/L) 1	(ug/L) 1	(ug/L) 10	(ug/L) 10	(ug/L) 10	(ug/L) 20	(ug/L) 0.5	(ug/L) 0.4	(ug/L) 0.5
ROPEC Discharge Limit			5000	5000	3000	5000	5000	1	5000	3000	5000	5000	1	5000	5000	5000	3000	10	350	630
1031139 BOA0824	27-Jul-10	Batch 63 Tank NB - 23:30	<50	<5	257	5	<50	<0.1	20	12	9	<1		<10	17	<10	26			
1032002 1032014 BOA3299	30-Jul-10	Batch 64 Tank NA - 3:00	ND (50)	ND (5)	362	7	145	0.1	22	16	7	ND (1)		ND (10)	14	ND (10)	44	ND (0.5)	ND (0.4)	ND (0.5)
1032003 1032014 BOA3338	31-Jul-10	Batch 65 Tank NC - 22:30	ND (50)	ND (5)	327	12	137	ND (0.1)	43	15	11	ND (1)		ND (10)	48	ND (10)	158	ND (0.5)	ND (0.4)	ND (0.5)
1033004 1033110 BOA8930	08-Aug-10 11-Aug-10 12-Aug-10	Batch 66 Tank NA	ND(50)	5	195	11	ND (50)	ND(0.1)	27	9	7	ND (1)		ND(10)	67	ND (10)	43	ND (0.5)	ND (0.4)	ND (0.5)
1033178 BOA8930	12-Aug-10	Batch 67 TKNB 2:00																ND (0.5)	ND (0.4)	ND (0.5)
1034003 1034068 1034068	16-Aug-10 17-Aug-10	Batch 68 Tank NC																ND (0.5)	ND (0.4)	ND (0.5)
1034035 1034037 1035156 1034180	16-Aug-10 25-Aug-10 19-Aug-10	Batch 69 TK ND 11:50	103 <50	<5	3560 3230	14 13	<50 <50	<0.1	39 42	37 20	50 17	<1 4		<10 <10	87 73	228 <10	121 87	ND (0.5)	ND (0.4)	ND (0.5)
1042054 1042055 BO3E3801	12-Oct-10	TKNC Batch 70 1445	ND (50)	ND (5)	363	276	ND (50)	ND (0.1)	49	5	26	ND (1)		16	243	ND (10)	211	ND (0.5)	ND (0.4)	ND (0.5)
1042100 BOE4430	13-Oct-10	Batch 71 Tank ND 13:00	336	ND (5)	410	8	ND (50)		12	ND (5)	19	ND (1)		ND (10)	67	96	32			
1042233 1043001	15-Oct-10 16-Oct-10	Batch 72 Tank NA 15:25 Batch 73 Tank NC 3:00	65 50	ND (5) ND (5)	22 108	3 3	ND (50) ND (50)		5 8	ND (5) ND (5)	15 12	ND (1) ND (1)		ND (10) ND (10)	13 ND (10)	189 136	ND (20) 24			
1043060 BOE7497	18-Oct-10	Batch 74 Tank NB 22:30	52	ND (5)	53	ND (1)	ND (50)		19	ND (5)	30	ND (1)		ND (10)	ND (10)	45	ND (20)			
1043114 1043172 1044004 1044223 1045002	20-Oct-10 21-Oct-10 24-Oct-10 28-Oct-10 30-Oct-10	Batch 75 Tank ND 06:00 Batch 76 Tank NA 08:50 Batch 77 Tank NB 01:00 Batch 78 Tank NC 02:00 Batch 79 Tank ND 08:00																		
1045006 1045015 BOF5240	01-Nov-10	Batch 80 TK NA 03:30	94	ND(5)	176	10	ND(50)	ND(0.1)	22	ND(5)	74	ND(1)		ND(10)	53	230	62	ND(0.5)	ND(0.4)	ND(0.5)
1045061 1045115 1045155	02-Nov-10 03-Nov-10 04-Nov-10	Batch 81 Tank NB 04:15 Batch 82 Tank NC 02:15 Batch 82 Tank NA																		
1045212 1045213	04-Nov-10 05-Nov-10	Batch 83 Tank ND 21:30 Batch 84 Tank NC 06:00																		
1046001 1046002 BOF9570 1049218	06-Nov-10 06-Nov-10	Batch 85 Tank NA 23:55	ND (50)	4	125	12	ND (50)	ND (0.1)	30	ND (5)	24	ND (1)		ND (10)	55	6	71	ND(0.5)	ND(0.4)	ND(0.5)
1046040 1046078 1046079 1046208	09-Nov-10 10-Nov-10 10-Nov-10 12-Nov-10	Batch 86 Tank NB 05:00 Batch 87 Tank ND 05:00 Batch 88 Tank NC 05:00 Batch 89 Tank NA 05:30																		
BOG3490 1047006 1047005 1047056 1047099	15-Nov-10 15-Nov-10 15-Nov-10 17-Nov-10	BATCH 90 TANK ND 05:00 Batch 91 Tank NC 05:00 Batch 92 Tank NB 21:00 Batch 93 Tank NA 5:00	ND (50)	7	233	13	ND (50)	ND (0.1)	36	7	32	ND (1)		ND (10)	57	3	34	ND (0.5)	ND (0.4)	ND (0.5)
1047147 1047204 1048051 1048064	18-Nov-10 19-Nov-10 23-Nov-10 24-Nov-10	Batch 94 Tank ND 05:00 Batch 95 Tank NC 0840 Batch 95 Tank Nd 07:00 Batch 95 TK ND 05:30																		
1048002 BOG8256 1048004 1048083	22-Nov-10 24-Nov-10	Batch 96 Tank NB 05:00 Batch 96 TK NA 05:30	ND (50)	6	2350	5	ND (50)	ND (0.1)	25	73	28	1		ND (10)	16	3	ND (20)	ND (0.5) ND (0.5)	ND (0.4) 4.4	ND (0.5) 3.9
1048118 1049001 1049002	25-Nov-10 29-Nov-10	Batch 97 Tank NB 05:00 Batch 98 TK NC 05:00																ND (0.5) ND (0.5)	ND (0.4) ND (0.4)	ND (0.5) ND (0.5)
1049227 1049228 1029452 1050001	02-Dec-10	Batch 99 Tank NA 0515 Batch 99 Tank NA Batch 99 Tank NC 2115	173	10	2860	16	ND (50)	ND (0.1)	39	64	107	2		ND (10)	79	390	ND (20)	ND (0.5)	ND (0.4)	ND (0.5)
1050001 1050002 1050136 1050098 1961730 1050176	05-Dec-10 06-Dec-10 08-Dec-10 08-Dec-10 09-Dec-10 10-Dec-10	Batch 100 Tank NB 2115 Batch 100 Tank NB 4:45 Batch 100 Tank NB 19:40 Batch 100 Tank NB Batch 100 Tank NB Batch 100 Tank NG 6:25	ND (50)	21	2780	12	ND (50)		89	72	62	2		ND (10)	43	6	26	ND (0.5)	2.2	ND (0.5)
1050002 1050098 1961730 1050177	05-Dec-10 08-Dec-10 09-Dec-10 10-Dec-10	Batch 101 Tank ND 4:00 Batch 101 Tank ND 21:15 Batch 101 Tank ND Batch 101 Tank ND																ND (0.5)	1.0	ND (0.5)
1050137 1961730 1050178	08-Dec-10 09-Dec-10 10-Dec-10	Batch 103 Tank NC 19:40 Batch 103 Tank NC 04:45 Batch 103 Tank NC Batch 103 Tank NC 4:45	ND (50)	8	1490 3630	13 21	ND (50) ND (50)		73 61	25 44	52 ND (5)	1 2		ND (10) ND (10)	72 101	6 4	61 79	ND (0.5)	58.8	20.3
Exceeds ROPEC Discharge Limit																				

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Tin	Titanium	Vanadium	Zinc	Benzene	Bromo dichloro methane	Bromoform
			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Detection Limit			50	5	5	1	50	0.1	5	5	5	1	1	10	10	10	20	0.5	0.4	0.5
ROPEC Discharge Limit			5000	5000	3000	5000	5000	1	5000	3000	5000	5000		5000	5000	5000	3000	10	350	630
1030229	13-Dec-10	Batch 104 Tank NA 05:00																		
1051005		Batch 104 Tank NA 05:00	ND (50)	7	2260	9	ND (50)		51	36	131	ND (1)		ND (10)	55	1	51	ND (0.5)	ND (0.4)	ND (0.5)
1051003	13-Dec-10	Batch 105 Tank ND 05:00	ND (50)	3	1480	4	ND (50)		51	46	43	1		ND (10)	21	2	20	ND (0.5)	ND (0.4)	ND (0.5)
1051072	13-Dec-10	Batch 105 Tank ND 05:00(Spiked)																		
1051002	13-Dec-10	Batch 106 Tank NB 05:00	ND (50)	4	1730	7	ND (50)		54	52	46	1		ND (10)	32	3	32	ND (0.5)	ND (0.4)	ND (0.5)
1051148	16-Dec-10	Batch 107 Tank NA 07:00	ND (50)	2	971	3	ND (50)	ND (0.1)	38	31	72	ND (1)		ND (10)	21	ND (1)	ND (20)	ND (0.5)	ND (0.4)	ND (0.5)
1030509	16-Dec-10	Batch 107 Tank NA 07:00																		
1051188	16-Dec-10	Batch 108 Tank NB 22:35	ND (50)	ND (1)	901	ND (1)	ND (50)		22	33	119	ND (1)		ND (10)	ND (10)	ND (1)	ND (20)	ND (0.5)	ND (0.4)	ND (0.5)
1052001	20-Dec-10	Batch 109 Tank ND 07:20	80	1	485	ND (1)	ND (50)	ND (0.1)	51	12	44	2		ND (10)	12	91	ND (20)	ND (0.5)	ND (0.4)	ND (0.5)
1965461	21-Dec-10	Batch 109 Tank ND - 17:15																		
1965461	21-Dec-10	Batch 110 Tank NC - 17:15																		
1052047	21-Dec-10	Batch 110 Tank NC 05:00	ND (50)	ND (1)	478	ND (1)	ND (50)	ND (0.1)	ND (5)	18	44	ND (1)		ND (10)	ND (10)	ND (1)	ND (20)	ND (0.5)	ND (0.4)	ND (0.5)
1031005	22-Dec-10	Batch 111 Tank NA																		
1052111	22-Dec-10	Batch 111 Tank NA	ND (50)	2	339	ND (1)	ND (50)		31	10	38	ND (1)		ND (10)	ND (10)	2	ND (20)	ND (0.5)	ND (0.4)	ND (0.5)

Exceeds ROPEC Discharge Limit

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromo chloro methane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethylene	cis-1,2-Dichloroethylene
Detection Limit			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
ROPEC Discharge Limit			110	57	57	270	80	190	57	28	88	36	17	200	210	40	200
0921002-01 8418-24	17-May-09	L-NA-6	ND	ND	ND	ND	5.8	ND	ND	ND	ND	ND	5.8	ND	ND	ND	ND
0921002-02 8418-25	17-May-09	L-NA-7	ND	ND	ND	ND	5.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0921135-01 8418-34	21-May-09	L-NA-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0921136-01 8418-35	21-May-09	L-NA-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0922108-01 8418-38	27-May-09	L-NA-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0923120-03 8418-43	03-Jun-2009	L-NB-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0923120-02 8418-42	03-Jun-2009	L-NA-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0924087-02 8418-46	10-Jun-2009	L-NB-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0924087-05	11-Jun-2009	L-NB-04 Doubt															
0924217-02 8418-47	12-Jun-09	L-NA-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0924217-03	16-Jun-09	L-NA-20															
0925004-14 8418-48	15-Jun-09	L-NA-21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0925004-16	17-Jun-09	L-NA-21															
0925004-17	17-Jun-09																
0925171-01 8418-50	19-Jun-09	L-N-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0926001-01 8418-51	22-Jun-09	L-N-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0926001-02	23-Jun-09	L-N-13															
0926107-02	24-Jun-09	L-NB062409															
0926107-01 8418-52	25-Jun-09	L-NB-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0926143-02 8418-53	26-Jun-09	L-NA-22 02:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0927008-04	28-Jun-09	L-NA-22-090629															
0927009-02 8418-55	27-Jun-09	L-NB-07-090627_02:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0927009-03	27-Jun-09	L-NB-07-090629-0800															
0927009-01 8418-54	27-Jun-09	L-NB-07-090627	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0928113-01 8418-59	08-Jul-09	L-NB-08 08072009 16:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0928155-01	10-Jul-09	L-NB-08-10072009 0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0929003-01 8418-60	13-Jul-09	L-NA-23-090713-0200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0929003-02 8418-61	13-Jul-09	L-N-16-090713-0200	ND	ND	ND	ND	1.1	8.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
0929074-01 8418-62	15-Jul-09	L-NA-24-090715-0200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0929106-01 8418-63	16-Jul-09	L-NB-09-090716-0200															
0929130-01 8418-64	17-Jul-09	L-N-17-090717-0200	ND	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0930001-01 8418-65	20-Jul-09	L-NA-25 090720-0200	2	ND	ND	ND	1	18.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
0930001-02 8418-66	20-Jul-09	L-N-18 090720-0200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0930115-01 8418-67	23-Jul-09	L-NB-10 090723-0200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0930147-01 8418-68	24-Jul-09	L-NA-26 090724-0200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0930147-02 8418-69	24-Jul-09	L-N-19 090724-0200	3	ND	ND	ND	2	7.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
0931241-01 8418-70	31-Jul-09	L-NB-11-090731-0200	ND	ND	ND	ND	4.2	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND
0932006-01	04-Aug-09	L-NA-27-090804-0500															
0932092-01	06-Aug-09	L-NB-12 090806-0500															
0932092-02	13-Aug-09	L-NA-28-090813-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0933139-01	13-Aug-09	L-NB-13-090813-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0935121-01	26-Aug-09	L-NB-16-090826-0500	ND	ND	ND	ND	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0935121-02	27-Aug-09	L-N-22-090827-0500	ND	ND	ND	ND	6.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0935203-01			Exceeds ROPEC Discharge Limit														

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromo chloro methane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethylene	cis-1,2-Dichloroethylene
Detection Limit			(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
ROPEC Discharge Limit			110	57	57	270	80	190	57	28	88	36	17	200	210	40	200
0937006-01	08-Sep-09	L-N-23-090908-0500															
0937006-02	08-Sep-09		ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0937146-03	11-Sep-09	L-N-23-090908-0500 Dub 1															
0938169-01	17-Sep-09	L-NA-30-090917-500 Roub															
0938169-02	17-Sep-09	L-NA-30-090917-500 Normal TAT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0938213-02	18-Sep-09	L-ND-01-090918-0500															
0939014-01	18-Sep-09	L-NC-02-090921-0500															
0939013-01	21-Sep-09	L-NA-31-090921-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0939014-02	21-Sep-09																
0939124-01	23-Sep-09	L-ND-02-090923-0500															
0939171-01	24-Sep-09	L-NA-32-090924-0500															
0940039-01	29-Sep-09	L-NC-04-090929-0500															
0940066-01	30-Sep-09	L-NA-33-090930-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0940100-02	01-Oct-09	L-ND-03-091001-0500															
0940146-01	02-Oct-09	L-NA-34-091002-0500															
0940146-02	02-Oct-09	L-NC-05-091002-0500															
0941091-01	07-Oct-09	L-ND-09-091007-0500															
0943039-01	20-Oct-09	L-NB-17-091020-0500	ND	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0943174-01	23-Oct-09	L-ND-05-091023-0500	ND	ND	ND	ND	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0943175-01																	
0944041-01	26-Oct-09	L-NC-07-091027-0500															
0944077-01	23-Oct-09	L-NB-18-091028-0500	ND	ND	ND	ND	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0944077-02	28-Oct-09	L-ND-06-091028-0500															
0944168-01	30-Oct-09	L-NC-08-091030															
0945099-03																	
0946004-01	09-Nov-09	L-ND-09-091109-0500															
0946092-02	11-Nov-09	L-NB-22-091111-1600															
0946183-01	12-Nov-09	L-NC-10-091112-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0946183-01																	
759644	18-Nov-09	L-NC-12-091117-0500															
760047	18-Nov-09	L-ND-12-091118-0500															
0948037-01																	
0948051-01	23-Nov-09	L-ND-15-091123-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0948044-01																	
9542-1																	
0948037-02	23-Nov-09	L-NB-27-091123-0500															
0948051-02																	
9542-2																	
9577																	
0949001-01	30-Nov-09	L-ND-16-091130-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
765476																	
9599	02-Dec-09	Batch 03 Tank NC 0800															
0949063-01																	
764591																	
9600	03-Dec-09	Batch 04 Tank ND 0500															
0949100-01																	
9675																	
766885	15-Dec-09	Batch 06 Tank NC 05:00															
0951028-01																	
0952004-01	21-Dec-09	Batch 05-NC-0500															
A9H2425																	
0953002-01																	
A9H4015	29-Dec-09	Batch 7 L-NB															
1000876	11-Jan-10	Batch II Tank NA															
1000667																	
1001030	13-Jan-10	Batch II Tank NA															
1001031																	
1000985																	
1001001																	
1001285	16-Jan-10	BATCH 13 TANK NC	<0.5	<0.5	<0.2	<1.0	153	<1.0	<0.3	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
1001286																	
10-362374																	
1001486	25-Jan-10	Batch 14 TK NC 0500	<0.5	<0.5	<0.2	<1.0	57.8	5.2	0.6	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
1001878																	
1001876																	
10-362372																	
1001487	25-Jan-10	Batch 15 Tank NA	<0.5	<0.5	<0.2	<1.0	30.4	3.6	0.7	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
1001879																	
1001877																	
1001902																	
8011655	01-Feb-10	Batch 08 Tank NA 0400	<0.5	<0.5	<0.2	<1.0	1.2	<1.0	<0.3	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
1002126																	
1002130																	
Exceeds ROPEC Discharge Limit																	

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromo chloro methane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethylene	cis-1,2-Dichloroethylene
Detection Limit			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
ROPEC Discharge Limit			110	57	57	270	80	190	57	28	88	36	17	200	210	40	200
1001903 1002129 8011655 1002125	01-Feb-10	Batch 18 Tank ND 0500	2.3	<0.5	<0.2	<1.0	7.0	<1.0	1.1	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
8012419 1002039 1002040	02-Feb-10	BATCH 19 TANK NH	<0.5	<0.5	<0.2	<1.0	7.6	<1.0	<0.3	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
1001901 1002124 8011655 1002131	01-Feb-10	Batch 20 Tank NB 0400	<0.5	<0.5	<0.2	<1.0	0.5	<1.0	<0.3	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
1001904 1002127 1002128 8011655	01-Feb-10	Batch 21 Tank NC 0500	<0.5	<0.5	<0.2	<1.0	0.7	<1.0	<0.3	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
1002327 1002107 8012819 1002912	03-Feb-10	Batch 22 Tank NA	<0.5	<0.5	<0.2	<1.0	10.3	<1.0	6.0	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
1002328 1002107 8012824 1002914	03-Feb-10 03-Feb-10	Batch 23 Tank NG Batch 23 Tank NG	<0.5	<0.5	<0.2	<1.0	8.6	<1.0	0.9	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
1002464 1002626 8014790 1002911 1002909	07-Feb-10	Batch 27 Tank NC	<0.5	<0.5	<0.2	<1.0	1.0	<1.0	<0.3	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
1002523 8015247 1003393 1002654	09-Feb-10	Batch 26 Tank NA	<0.5	<0.5	<0.2	<1.0	0.8	<1.0	0.6	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
1002314 8014172 1002672	05-Feb-10 10-Feb-10	Batch 24 Tank NF Batch 24 Tank NF	<0.5	<0.5	<0.2	<1.0	26.8	<1.0	18.7	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
8014604 1002664 1002447	05-Feb-10	Batch 25 TK ND 0500	<0.5	<0.5	<0.2	<1.0	0.9	<1.0	<0.3	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
8018250 1003036 1003035	16-Feb-10	Batch 29 Tank ND 05:00	<0.5	<0.5	<0.2	<1.0	1	<1.0	0.5	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
1002879 8017124 1003394 1003305 1003177	12-Feb-10 19-Feb-10 18-Feb-10	Batch 28 TK NC	<0.5	<0.5	<0.2	<1.0	<0.5	<1.0	<0.3	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
8020866 1003434 1003435 1003436	22-Feb-10	Batch 30 Tank ND 0500	<0.5	<0.5	<0.2	<1.0	<0.5	<1.0	<0.3	<1.0	<0.4	<0.4	0.4	<0.4	<0.5	<0.5	<0.4
1003365 8031982 1005368 1003366	17-Mar-10	Batch 33 Tank ND	<0.5	<0.5	<0.2	<1.0	<0.5	<1.0	<0.3	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
1005519	19-Mar-10	Batch 31 Tank ND 05:00															
1005372 8034223 1013128	23-Mar-10 25-Mar-10	Batch 32 TK NA 0500	<0.5	<0.5	<0.2	<1.0	<0.5	<1.0	<0.3	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
1015103 1007058 1016037	7-Apr-10 9-Apr-10 12-Apr-10	Batch 32 Tank NB Batch 32 TK NB 04/12/10 @1500															
1006158 1006160 1006159	29-Mar-10	Batch 33 Tank NB	<0.5	<0.5	<0.2	<1.0	<0.5	<1.0	<0.3	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
1006343 1015104 8040942	1-Apr-10 7-Apr-10	Batch 33 Tank NA															
1006182 1006183 1006184	29-Mar-10	Batch 34 TK NC	<0.5	<0.5	<0.2	<1.0	<0.5	<1.0	<0.3	<1.0	<0.4	<0.4	<0.4	<0.4	<0.5	<0.5	<0.4
1015004 8039637 1015004 8039637	2-Apr-10	Batch 34 Tank NC 05:00 Batch 34 Vanson Truck 05:00															
1015060	6-Apr-10	Batch 35 Tank ND 0500	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
8040952 1006805	7-Apr-10	Batch 35 TANK ND															
1015209	9-Apr-10	Batch 35 TK ND															

Exceeds ROPEC Discharge Limit

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromo chloro methane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethylene	cis-1,2-Dichloroethylene
Detection Limit			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
ROPEC Discharge Limit			110	57	57	270	80	190	57	28	88	36	17	200	210	40	200
B040388 1015085	6-Apr-10 6-Apr-10	Batch 36 TANK NC															
1016074 1007974	14-Apr-10 16-Apr-10	Batch 36 TK NC 0415															
1015213 1016169 B042247 1015214 1007059	9-Apr-10	Batch 37 TK NA	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
1016110 B044328	15-Apr-10	Batch 37 Tank NA 0500															
1016072 1007622	14-Apr-10	Batch 38 TK NB 0415															
1016111 1017003	15-Apr-10 19-Apr-10	Batch 38 Tank NB 0500 Batch 38 TK ND 0530															
1017006 B046389 1008016 1017094	19-Apr-10	Batch 39 TK NC 05:30 Batch 39 TK NC Batch 39 TK NC 05:00															
B046323 1017005 1008015	19-Apr-10	BATCH 40 TANK NB 07:00	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	18.7	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
1017093 1017095 1008328 B048023	21-Apr-10 20-Apr-10	Batch 40 TK NB 05:00 Batch 41 TK NA 1415 #1 Batch 41 TK NA 1415															
1018052 1009140 B052712 1018188 1009417	27-Apr-10 30-Apr-10 29-Apr-10 4-May-10	Batch 41 Tank NA 05:00 Batch 42 Tank NA 0500	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	6.5	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
B053472 1009291 1009806 B056798 1009959 1019219	3-May-10 6-May-10 7-May-10	Batch 43 Tank NB 0500 Batch 43 Tank NC 14:25	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
1020001 B057205 1010014 1021088 1021089 B062284	10-May-10 18-May-10	Batch 45 Tank NA Batch 46 Tank NA 11:00	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
1022011 B065241 1022011 B065241 1022157 B067453	25-May-10 25-May-10 28-May-10	Batch 47 Tank NB 05:00 Batch 48 Tank NB 05:00 Batch 49 Tank NA	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
B075971 1025016 1025018 1026012 1026014 B078892	14-Jun-10 21-Jun-10	Batch 50 TK NA 0515 Batch 51 Tank NA 0500	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
1026010 B079863 B081319 1026110 1026111 1026112	21-Jun-10 23-Jun-10	Batch 52 Tank NB 0500 Batch 53 Tank NC	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
1027007 B083825 1027009 1027011 B083793	28-Jun-10 28-Jun-10	Batch 54 Tank ND 05:00 Batch 55 Tank NA 05:00	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
1027101 B084557 1027166 B085689	29-Jun-10 30-Jun-10	Batch 56 TKNB 1100 Batch 57 Tank NC 14:00															
1028046 1028044 1028045 B087409	06-Jul-10	Batch 58 TK NA 0600	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
1028164 B089585 1029009 1029011 1029010 B090897	08-Jul-10 12-Jul-10	Batch 59 Tank NB 15:15 Batch 60 Tank NC	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
1029114 B092722 1031019 1031020 B099095	14-Jul-10 24-Jul-10	Batch 61 Tank NA Batch 62 Tank NA - 03:00															

Exceeds ROPEC Discharge Limit

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromo chloro methane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethylene	cis-1,2-Dichloroethylene	
Detection Limit			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
ROPEC Discharge Limit			110	57	57	270	80	190	57	28	88	36	17	200	210	40	200	
1031139 BOA0824	27-Jul-10	Batch 63 Tank NB - 23:30																
1032002 1032014 BOA3299	30-Jul-10	Batch 64 Tank NA - 3:00	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)	
1032003 1032014 BOA3338	31-Jul-10	Batch 65 Tank NC - 22:30	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)	
1033004 1033110 BOA8930	08-Aug-10 11-Aug-10 12-Aug-10	Batch 66 Tank NA	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	2	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)	
1033178 BOA8930	12-Aug-10	Batch 67 TKNB 2:00	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	1.7	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)	
1034003 1034068 1034068	16-Aug-10 17-Aug-10	Batch 68 Tank NC	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)	
1034035 1034037 1035156 1034180	16-Aug-10 25-Aug-10 19-Aug-10	Batch 69 TK ND 11:50	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)	
1042054 1042055 BO3E3801	12-Oct-10	TKNC Batch 70 1445	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)	
1042100 BOE4430	13-Oct-10	Batch 71 Tank ND 13:00																
1042233 1043001	15-Oct-10 16-Oct-10	Batch 72 Tank NA 15:25 Batch 73 Tank NC 3:00																
1043060 BOE74927	18-Oct-10	Batch 74 Tank NB 22:30																
1043114	20-Oct-10	Batch 75 Tank ND 06:00																
1043172	21-Oct-10	Batch 76 Tank NA 08:50																
1044004	24-Oct-10	Batch 77 Tank NB 01:00																
1044223	28-Oct-10	Batch 78 Tank NC 02:00																
1045002	30-Oct-10	Batch 79 Tank ND 08:00																
1045006 1045015 BOF5240	01-Nov-10	Batch 80 TK NA 03:30	ND(0.7)	ND(0.5)	ND(0.4)	ND(0.1)	ND(0.5)	ND(0.3)	ND(0.5)	ND(1.0)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.4)	
1045061	02-Nov-10	Batch 81 Tank NB 04:15																
1045115	03-Nov-10	Batch 82 Tank NC 02:15																
1045155	04-Nov-10	Batch 82 Tank NA																
1045212	04-Nov-10	Batch 83 Tank ND 21:30																
1045213	05-Nov-10	Batch 84 Tank NC 06:00																
1046001 1046002 BOF9570	06-Nov-10	Batch 85 Tank NA 23:55	ND(0.7)	ND(0.5)	ND(0.4)	ND(1.0)	ND(0.5)	ND(3.0)	ND(0.5)	ND(1.0)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.4)	
1049218	06-Nov-10																	
1046040	09-Nov-10	Batch 86 Tank NB 05:00																
1046078	10-Nov-10	Batch 87 Tank ND 05:00																
1046079	10-Nov-10	Batch 88 Tank NC 05:00																
1046208	12-Nov-10	Batch 89 Tank NA 05:30																
BOG3490 1047006	15-Nov-10	BATCH 90 TANK ND 05:00	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)	
1047005	15-Nov-10	Batch 91 Tank NC 05:00																
1047056	15-Nov-10	Batch 92 Tank NB 21:00																
1047099	17-Nov-10	Batch 93 Tank NA 5:00																
1047147	18-Nov-10	Batch 94 Tank ND 05:00																
1047204 1048051 1048064	19-Nov-10 23-Nov-10 24-Nov-10	Batch 95 Tank NC 0840 Batch 95 Tank Nd 07:00 Batch 95 TK ND 05:30	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	2.8	ND (3.0)	7.8	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)	
1048002 BOG8256 1048004 1048083	22-Nov-10 24-Nov-10	Batch 96 Tank NB 05:00 Batch 96 TK NA 05:30	ND (0.7) ND (0.7)	ND (0.5) ND (0.5)	ND (0.4) ND (0.4)	ND (1.0) ND (1.0)	ND (0.5) 3.4	ND (3.0) ND (3.0)	ND (0.5) 7.4	ND (1.0) ND (1.0)	ND (0.4) ND (0.4)	ND (0.4) ND (0.4)	ND (0.4) ND (0.4)	ND (0.5) ND (0.5)	ND (0.5) ND (0.5)	ND (0.5) ND (0.5)	ND (0.5) ND (0.5)	ND (0.4) ND (0.4)
1048118	25-Nov-10	Batch 97 Tank NB 0500	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)	
1049001 1049002	29-Nov-10	Batch 98 TK NC 05:00	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)	
1049227 1049228 1029452 1050001	02-Dec-10 05-Dec-10	Batch 99 Tank NA 0515 Batch 99 Tank NA Batch 99 Tank NC 2115	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)	
1050001 1050002 1050136 1050098 1050098 1961730 1050176	05-Dec-10 06-Dec-10 08-Dec-10 08-Dec-10 09-Dec-10 10-Dec-10	Batch 100 Tank NB 2115 Batch 100 Tank NB 4:45 Batch 100 Tank NB 19:40 Batch 100 Tank NB Batch 100 Tank NB Batch 100 Tank NG 6:25	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	3.3	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
1050002 1050002 1050098 1961730 1050177	05-Dec-10 06-Dec-10 08-Dec-10 09-Dec-10 10-Dec-10	Batch 101 Tank ND 4:00 Batch 101 Tank ND 21:15 Batch 101 Tank ND Batch 101 Tank ND Batch 101 Tank ND 4:45	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	2.5	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
1050137 1961730 1050178	08-Dec-10 09-Dec-10 10-Dec-10	Batch 103 Tank NC 19:40 Batch 103 Tank NC 04:45 Batch 103 Tank NC Batch 103 Tank NC 4:45	ND (0.7)	0.7	ND (0.4)	ND (1.0)	72.9	ND (3.0)	56.1	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)	
Exceeds ROPEC Discharge Limit																		

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromo chloro methane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethylene	cis-1,2-Dichloroethylene
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Detection Limit			0.7	0.5	0.4	1	0.5	3	0.5	1	0.4	0.4	0.4	0.5	0.5	0.5	0.4
ROPEC Discharge Limit			110	57	57	270	80	190	57	28	88	36	17	200	210	40	200
1030229	13-Dec-10	Batch 104 Tank NA 05:00															
1051005		Batch 104 Tank NA 05:00	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
1051003	13-Dec-10	Batch 105 Tank ND 05:00	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
1051072	13-Dec-10	Batch 105 Tank ND 05:00(Spiked)															
1051002	13-Dec-10	Batch 106 Tank NB 05:00	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
1051148	16-Dec-10	Batch 107 Tank NA 07:00	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
1030509	16-Dec-10	Batch 107 Tank NA 07:00															
1051188	16-Dec-10	Batch 108 Tank NB 22:35	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
1052001	20-Dec-10	Batch 109 Tank ND 07:20	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
1965461	21-Dec-10	Batch 109 Tank ND - 17:15															
1965461	21-Dec-10	Batch 110 Tank NC - 17:15															
1052047	21-Dec-10	Batch 110 Tank NC 05:00	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
1031005	22-Dec-10	Batch 111 Tank NA															
1052111	22-Dec-10	Batch 111 Tank NA	ND (0.7)	ND (0.5)	ND (0.4)	ND (1.0)	ND (0.5)	ND (3.0)	ND (0.5)	ND (1.0)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.4)
Exceeds ROPEC Discharge Limit																	

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	trans-1,2-Dichloroethylene	1,2-Dichloropropane	cis-1,3-Dichloropropylene	trans-1,3-Dichloropropylene	Ethylbenzene	Methylene Chloride	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethylene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethylene	Trichlorofluoromethane	1,3,5-Trimethylbenzene	Vinyl chloride
Detection Limit			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
ROPEC Discharge Limit			200	850	70	70	57	210	40	0.5	0.6	0.5	0.5	0.4	0.6	0.4	1	0.5	0.4
0921002-01 8418-24	17-May-09	L-NA-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0921002-02 8418-25	17-May-09	L-NA-7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0921135-01 8418-34	21-May-09	L-NA-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0921136-01 8418-35	21-May-09	L-NA-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0922108-01 8418-38	27-May-09	L-NA-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0923120-03 8418-43	03-Jun-2009	L-NB-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0923120-02 8418-42	03-Jun-2009	L-NA-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0924087-02 8418-46	10-Jun-2009	L-NB-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0924087-05 8418-47	11-Jun-2009	L-NB-04 Doub1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0924217-02 8418-47	12-Jun-09	L-NA-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0924217-03 8418-48	16-Jun-09	L-NA-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0925004-14 8418-48	15-Jun-09	L-NA-21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0925004-16 8418-48	17-Jun-09	L-NA-21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0925004-17 8418-50	17-Jun-09	L-NA-21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0925171-01 8418-50	19-Jun-09	L-N-12	ND	ND	ND	ND	5.4	ND	0.4	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND
0926001-01 8418-51	22-Jun-09	L-N-13	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND
0926001-02 8418-51	23-Jun-09	L-N-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0926107-02 8418-52	24-Jun-09	L-NB062409	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0926107-01 8418-52	25-Jun-09	L-NB-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0926143-02 8418-53	26-Jun-09	L-NA-22 02:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0927008-04 8418-53	28-Jun-09	L-NA-22-090629	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0927009-02 8418-55	27-Jun-09	L-NB-07-090627_02:40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0927009-03 8418-55	27-Jun-09	L-NB-07-090629-0800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0927009-01 8418-54	27-Jun-09	L-NB-07-090627	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0928113-01 8418-59	08-Jul-09	L-NB-08 08072009 16:00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0928155-01 8418-60	10-Jul-09	L-NB-08-10072009 0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0929003-01 8418-60	13-Jul-09	L-NA-23-090713-0200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0929003-02 8418-61	13-Jul-09	L-N-16-090713-0200	ND	ND	ND	ND	10.6	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND
0929074-01 8418-62	15-Jul-09	L-NA-24-090715-0200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0929106-01 8418-63	16-Jul-09	L-NB-09-090716-0200																	
0929130-01 8418-64	17-Jul-09	L-N-17-090717-0200	ND	ND	ND	ND	7.8	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND
0930001-01 8418-65	20-Jul-09	L-NA-25 090720-0200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0930001-02 8418-66	20-Jul-09	L-N-18 090720-0200	ND	ND	ND	ND	4.6	ND	ND	ND	ND	ND	0.5	ND	ND	ND	ND	ND	ND
0930115-01 8418-67	23-Jul-09	L-NB-10 090723-0200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0930147-01 8418-68	24-Jul-09	L-NA-26 090724-0200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0930147-02 8418-69	24-Jul-09	L-N-19 090724-0200	ND	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0931241-01 8418-70	31-Jul-09	L-NB-11-090731-0200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0932006-01 8418-70	04-Aug-09	L-NA-27-090804-0500																	
0932092-01 8418-70	06-Aug-09	L-NB-12 090806-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0933139-01 8418-69	13-Aug-09	L-NA-28-090813-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0933139-02 8418-69	13-Aug-09	L-NB-13-090813-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0935121-01 8418-69	26-Aug-09	L-NB-16-090826-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0935121-02 8418-69	27-Aug-09	L-N-22-090827-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0935203-01 8418-69	27-Aug-09	L-N-22-090827-0500	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Exceeds ROPEC Discharge Limit

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	trans-1,2-Dichloroethylene	1,2-Dichloropropane	cis-1,3-Dichloropropylene	trans-1,3-Dichloropropylene	Ethylbenzene	Methylene Chloride	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethylene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethylene	Trichlorofluoromethane	1,3,5-Trimethylbenzene	Vinyl chloride
Detection Limit			($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)
ROPEC Discharge Limit			1	0.5	0.4	0.5	0.5	4	0.4	0.5	0.6	0.5	0.5	0.4	0.6	0.4	1	0.5	0.4
			200	850	70	70	57	210	40	40	40	50	80	54	800	54	20	3	400
0937006-01	08-Sep-09	L-N-23-090908-0500	ND	ND	ND	ND	4.4	ND	0.4	ND	ND	ND	0.5	ND	ND	ND	ND	ND	ND
0937146-03	11-Sep-09	L-N-23-090908-0500 Dub 1																	
0938169-01	17-Sep-09	L-NA-30-090917-500 Rough																	
0938169-02	17-Sep-09	L-NA-30-090917-500 Normal TAT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0938213-02	18-Sep-09	L-ND-01-090918-0500																	
0939014-01	18-Sep-09	L-NC-02-090921-0500																	
0939013-01	21-Sep-09	L-NA-31-090921-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0939014-02	21-Sep-09	L-NA-31-090921-0500																	
0939124-01	23-Sep-09	L-ND-02-090923-0500																	
0939171-01	24-Sep-09	L-NA-32-090924-0500																	
0940039-01	29-Sep-09	L-NC-04-090929-0500																	
0940066-01	30-Sep-09	L-NA-33-090930-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0940100-01	01-Oct-09	L-ND-03-091001-0500																	
0940146-01	02-Oct-09	L-NA-34-091002-0500																	
0940146-02	02-Oct-09	L-NC-05-091002-0500																	
0941091-01	07-Oct-09	L-ND-091007-0500																	
0943039-01	20-Oct-09	L-NB-17-091020-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0943174-01	23-Oct-09	L-ND-05-091023-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0943175-01	23-Oct-09	L-ND-05-091023-0500																	
0944041-01	26-Oct-09	L-NC-07-091027-0500																	
0944077-01	23-Oct-09	L-NB-18-091028-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0944077-02	28-Oct-09	L-ND-06-091028-0500																	
0944168-01	30-Oct-09	L-NC-08-091030																	
0945099-03	09-Nov-09	L-ND-09-091109-0500																	
0946004-01	11-Nov-09	L-NB-22-091111-1600																	
0946183-01	12-Nov-09	L-NC-10-091112-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0946153-01	12-Nov-09	L-NC-10-091112-0500																	
75964	18-Nov-09	L-NC-12-091117-0500																	
76047	18-Nov-09	L-ND-12-091118-0500																	
0948037-01	23-Nov-09	L-ND-15-091123-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0948051-01	23-Nov-09	L-NB-27-091123-0500																	
0948044-01	23-Nov-09	L-ND-15-091123-0500																	
9542-1	9577	L-ND-16-091130-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
0948037-02	9542-2																		
0948051-02	9542-2																		
9577	9577																		
0949001-01	765476	Batch 03 Tank NC 0800																	
9599	764591	Batch 04 Tank ND 0500																	
0949063-01	9600																		
9675	9949100-01																		
766885	15-Dec-09	Batch 06 Tank NC 05:00																	
0951028-01	0952004-01	Batch 05-NC-0500																	
2494245	0953002-01	Batch 7 L-NB																	
0953002-01	0953002-01																		
0953002-01	1000876	Batch II Tank NA																	
1000667	1001030	Batch II Tank NA																	
1001031	1001001																		
1000985	1001285	BATCH 13 TANK NC	<0.4	<0.5	<0.2	<0.2	<0.5	<4.0	<0.5	<0.5	<0.5	<0.3	<0.5	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1001286	10-362374	Batch 14 TK NC 0500	<0.4	<0.5	<0.2	<0.2	<0.5	<4.0	<0.5	<0.5	<0.5	<0.3	<0.5	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1001878	1001878																		
1001876	10-362372	Batch 15 Tank NA	<0.4	<0.5	<0.2	<0.2	1.9	<4.0	<0.5	<0.5	<0.5	<0.3	<0.5	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1001877	1001902																		
1001902	8011655	Batch 08 Tank NA 0400	<0.4	<0.5	<0.2	<0.2	0.8	<4.0	<0.5	<0.5	<0.5	<0.3	<0.5	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1002126	1002130																		
1002130																			
		Exceeds ROPEC Discharge Limit																	

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	trans-1,2-Dichloroethylene (µg/L)	1,2-Dichloropropane (µg/L)	cis-1,3-Dichloropropylene (µg/L)	trans-1,3-Dichloropropylene (µg/L)	Ethylbenzene (µg/L)	Methylene Chloride (µg/L)	Styrene (µg/L)	1,1,1,2-Tetrachloroethane (µg/L)	1,1,2,2-Tetrachloroethane (µg/L)	Tetrachloroethylene (µg/L)	Toluene (µg/L)	1,1,1-Trichloroethane (µg/L)	1,1,2-Trichloroethane (µg/L)	Trichloroethylene (µg/L)	Trichlorofluoromethane (µg/L)	1,3,5-Trimethylbenzene (µg/L)	Vinyl chloride (µg/L)
Detection Limit			1	0.5	0.4	0.5	0.5	4	0.4	0.5	0.6	0.5	0.5	0.4	0.6	0.4	1	0.5	0.4
ROPEC Discharge Limit			200	850	70	70	57	210	40	40	40	50	80	54	800	54	20	3	400
1001903 1002129 8011655 1002125	01-Feb-10	Batch 18 Tank ND 0500	<0.4	<0.5	<0.2	<0.2	<0.5	<4.0	<0.5	<0.5	<0.5	<0.3	0.7	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
8012419 1002039 1002040	02-Feb-10	BATCH 19 TANK NH	<0.4	<0.5	<0.2	<0.2	17.6	<4.0	1.8	<0.5	<0.5	<0.3	11.3	<0.4	<0.4	1.1	<0.5	<0.3	<0.2
1001901 1002124 8011655 1002131	01-Feb-10	Batch 20 Tank NB 0400	<0.4	<0.5	<0.2	<0.2	<0.5	<4.0	<0.5	<0.5	<0.5	<0.3	<0.5	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1001904 1002127 1002128 8011655	01-Feb-10	Batch 21 Tank NC 0500	<0.4	<0.5	<0.2	<0.2	0.8	<4.0	<0.5	<0.5	<0.5	<0.3	1	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1002327 1002107 8012819 1002912	03-Feb-10	Batch 22 Tank NA	<0.4	<0.5	<0.2	<0.2	<0.5	<10	<0.5	<0.5	<0.5	<0.3	4	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1002328 1002107 8012824 1002914	03-Feb-10 03-Feb-10	Batch 23 Tank NG Batch 23 Tank NG	<0.4	<0.5	<0.2	<0.2	<0.5	<10	<0.5	<0.5	<0.5	<0.3	1	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1002464 1002626 8014790 1002911 1002909	07-Feb-10	Batch 27 Tank NC	<0.4	<0.5	<0.2	<0.2	<0.5	<4.0	<0.5	<0.5	<0.5	<0.3	0.9	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1002523 8015247 1003393 1002654	09-Feb-10	Batch 26 Tank NA	<0.4	<0.5	<0.2	<0.2	0.5	<4.0	<0.5	<0.5	<0.5	<0.3	0.6	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1002314 8014172 1002672	05-Feb-10 10-Feb-10	Batch 24 Tank NF Batch 24 Tank NF	<0.4	<0.5	<0.2	<0.2	<0.5	<10.0	<0.5	<0.5	<0.5	<0.3	<0.5	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
8014604 1002664 1002447	05-Feb-10	Batch 25 TK ND 0500	<0.4	<0.5	<0.2	<0.2	<0.5	<4.0	<0.5	<0.5	<0.5	<0.3	1.3	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
8018250 1003036 1003035	16-Feb-10	Batch 29 Tank ND 05:00	<0.4	<0.5	<0.2	<0.2	1	<4.0	<0.5	<0.5	<0.5	<0.3	0.8	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1002879 8017124 1003394 1003305 1003177	12-Feb-10 19-Feb-10 18-Feb-10	Batch 28 TK NC	<0.4	<0.5	<0.2	<0.2	<0.5	<4.0	<0.5	<0.5	<0.5	<0.3	0.5	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
8020866 1003434 1003435 1003436	22-Feb-10	Batch 30 Tank ND 0500	<0.4	<0.5	<0.2	<0.2	<0.5	<4.0	<0.5	<0.5	<0.5	<0.3	<0.5	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1003365 8031982 1005368 1003366	17-Mar-10	Batch 33 Tank ND	<0.4	<0.5	<0.2	<0.2	<0.5	<4.0	<0.5	<0.5	<0.5	<0.3	0.7	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1005519	19-Mar-10	Batch 31 Tank ND 05:00	<0.4	<0.5	<0.2	<0.2	1.4	<4.0	<0.5	<0.5	<0.5	<0.3	0.7	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1005372 8034223 1013128	23-Mar-10 25-Mar-10	Batch 32 TK NA 0500	<0.4	<0.5	<0.2	<0.2	1.4	<4.0	<0.5	<0.5	<0.5	<0.3	0.7	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1015103 1007058	7-Apr-10 9-Apr-10	Batch 32 Tank NB	<0.4	<0.5	<0.2	<0.2	1.2	<4.0	<0.5	<0.5	<0.5	<0.3	0.6	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1016037	12-Apr-10	Batch 32 TK NB 04/12/10 @1500	<0.4	<0.5	<0.2	<0.2	1.2	<4.0	<0.5	<0.5	<0.5	<0.3	0.6	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1006158 1006160 1006159	29-Mar-10	Batch 33 Tank NB	<0.4	<0.5	<0.2	<0.2	1.2	<4.0	<0.5	<0.5	<0.5	<0.3	0.6	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1006343 1015104 8040942	1-Apr-10 7-Apr-10	Batch 33 Tank NA	<0.4	<0.5	<0.2	<0.2	<0.5	<4.0	<0.5	<0.5	<0.5	<0.3	<0.5	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1006182 1006183 1006184	29-Mar-10	Batch 34 TK NC	<0.4	<0.5	<0.2	<0.2	<0.5	<4.0	<0.5	<0.5	<0.5	<0.3	<0.5	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1015004 8039637 1015004 8039637	2-Apr-10	Batch 34 Tank NC 05:00 Batch 34 Vanson Truck 05:00	<0.4	<0.5	<0.2	<0.2	<0.5	<4.0	<0.5	<0.5	<0.5	<0.3	<0.5	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1015060	6-Apr-10	Batch 35 Tank ND 0500	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	4.6	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
8040952 1006805	7-Apr-10	Batch 35 Tank ND	<0.4	<0.5	<0.2	<0.2	<0.5	<4.0	<0.5	<0.5	<0.5	<0.3	<0.5	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2
1015209	9-Apr-10	Batch 35 TK ND	<0.4	<0.5	<0.2	<0.2	<0.5	<4.0	<0.5	<0.5	<0.5	<0.3	<0.5	<0.4	<0.4	<0.3	<0.5	<0.3	<0.2

Exceeds ROPEC Discharge Limit

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	trans-1,2-Dichloroethylene (µg/L)	1,2-Dichloropropane (µg/L)	cis-1,3-Dichloropropylene (µg/L)	trans-1,3-Dichloropropylene (µg/L)	Ethylbenzene (µg/L)	Methylene Chloride (µg/L)	Styrene (µg/L)	1,1,1,2-Tetrachloroethane (µg/L)	1,1,2,2-Tetrachloroethane (µg/L)	Tetrachloroethylene (µg/L)	Toluene (µg/L)	1,1,1-Trichloroethane (µg/L)	1,1,2-Trichloroethane (µg/L)	Trichloroethylene (µg/L)	Trichlorofluoromethane (µg/L)	1,3,5-Trimethylbenzene (µg/L)	Vinyl chloride (µg/L)
Detection Limit			1	0.5	0.4	0.5	0.5	4	0.4	0.5	0.6	0.5	0.5	0.4	0.6	0.4	1	0.5	0.4
ROPEC Discharge Limit			200	850	70	70	57	210	40	40	40	50	80	54	800	54	20	3	400
B040388 1015085	6-Apr-10	Batch 36 TANK NC																	
1016074	6-Apr-10	Batch 36 TK NC 0415																	
1007974	14-Apr-10	Batch 36 Tank NC 1000																	
1015213 1016169 B042247 1015214 1007059	16-Apr-10	Batch 37 TK NA	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1016110	9-Apr-10	Batch 37 Tank NA 0500																	
B044328	15-Apr-10	Batch 37 Tank NA 0500																	
1016072 1007622	14-Apr-10	Batch 38 TK NB 0415																	
1016111	15-Apr-10	Batch 38 Tank NB 0500																	
1017003	19-Apr-10	Batch 38 TK ND 0530																	
1017006 B046389 1008016	19-Apr-10	Batch 39 TK NC 05:30																	
1017094	19-Apr-10	Batch 39 TK NC																	
1017094	21-Apr-10	Batch 39 TK NC 05:00																	
B046323 1017005 1008015	21-Apr-10	BATCH 40 TANK NB 07:00	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	0.9	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	0.6	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1017099	21-Apr-10	Batch 40 TK NB 05:00																	
1017095 1008328 B048023	20-Apr-10	Batch 41 TK NA 1415 #1																	
1018052	20-Apr-10	Batch 41 TK NA 1415																	
1018052	27-Apr-10	Batch 41 Tank NA 05:00																	
1009140 B052712 1018188 1009417	30-Apr-10	Batch 42 Tank NA 0500	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	0.6	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
B053472 1009291	29-Apr-10	Batch 42 Tank NA 0500																	
1009806	4-May-10	Batch 43 Tank NB 0500																	
B056798 1009959 1019219	3-May-10	Batch 43 Tank NB 0500																	
1020001 B057205 1010014	6-May-10	Batch 43 Tank NC 14:25	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1021088 1021089 B062284	7-May-10	Batch 43 Tank NC 14:25																	
1022011 B065241	10-May-10	Batch 45 Tank NA																	
1021088 1021089 B062284	18-May-10	Batch 46 Tank NA 11:00	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	1.6	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1022011 B065241	25-May-10	Batch 47 Tank NB 05:00	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	3.5	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1022011 B065241	25-May-10	Batch 48 Tank NB 05:00	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1021577 B067453	28-May-10	Batch 49 Tank NA	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	3.1	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
B075971 1025016 1025018	14-Jun-10	Batch 50 TK NA 0515																	
1026012 1026014 B078892	21-Jun-10	Batch 51 Tank NA 0500	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	10.2	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1026010 B079863	21-Jun-10	Batch 52 Tank NB 0500																	
B081319 1026110 1026111 1026112	23-Jun-10	Batch 53 Tank NC	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1027007 B083825	28-Jun-10	Batch 54 Tank ND 05:00																	
1027009 1027011 B083793	28-Jun-10	Batch 55 Tank NA 05:00	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	12.6	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	4.5	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1027101 B084557	29-Jun-10	Batch 56 TKNB 1100																	
1027166 B085689	30-Jun-10	Batch 57 Tank NC 14:00																	
1028046 1028044 1028045 B087409	06-Jul-10	Batch 58 TK NA 0600	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1028164 B089585	08-Jul-10	Batch 59 Tank NB 15:15																	
1029009 1029011 1029010 B090897	12-Jul-10	Batch 60 Tank NC	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1029114 B092722	14-Jul-10	Batch 61 Tank NA																	
1031019 1031020 B099095	24-Jul-10	Batch 62 Tank NA - 03:00																	
Exceeds ROPEC Discharge Limit																			

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	trans-1,2-Dichloroethylene	1,2-Dichloropropane	cis-1,3-Dichloropropylene	trans-1,3-Dichloropropylene	Ethylbenzene	Methylene Chloride	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethylene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethylene	Trichlorofluoromethane	1,3,5-Trimethylbenzene	Vinyl chloride
Detection Limit			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
ROPEC Discharge Limit			200	850	70	70	57	210	40	0.5	40	50	80	54	800	54	20	3	400
1031139 B0A0824	27-Jul-10	Batch 63 Tank NB - 23:30																	
1032002 1032014 B0A3299	30-Jul-10	Batch 64 Tank NA - 3:00	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (4.0)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1032003 1032014 B0A3338	31-Jul-10	Batch 65 Tank NC - 22:30	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (4.0)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1033004 1033110 B0A8930	08-Aug-10 11-Aug-10 12-Aug-10	Batch 66 Tank NA	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	0.8	ND (4.0)	ND (4.0)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1033178 B0A8930	12-Aug-10	Batch 67 TKNB 2:00	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	12.8	ND (4.0)	0.9	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1034003 1034068 1034068	16-Aug-10 17-Aug-10	Batch 68 Tank NC	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1034035 1034037 1035156 1034180	16-Aug-10 25-Aug-10 19-Aug-10	Batch 69 TK ND 11:50	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1042054 1042055 B03E3801	12-Oct-10	TKNC Batch 70 1445	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1042100 B0E4430	13-Oct-10	Batch 71 Tank ND 13:00																	
1042233 1043001	15-Oct-10 16-Oct-10	Batch 72 Tank NA 15:25 Batch 73 Tank NC 3:00																	
1043060 B0E74927	18-Oct-10	Batch 74 Tank NB 22:30																	
1043114	20-Oct-10	Batch 75 Tank ND 06:00																	
1043172	21-Oct-10	Batch 76 Tank NA 08:50																	
1044004	24-Oct-10	Batch 77 Tank NB 01:00																	
1044223	28-Oct-10	Batch 78 Tank NC 02:00																	
1045002	30-Oct-10	Batch 79 Tank ND 08:00																	
1045006 1045015 B0F5240	01-Nov-10	Batch 80 TK NA 03:30	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	0.9	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1045061	02-Nov-10	Batch 81 Tank NB 04:15																	
1045115	03-Nov-10	Batch 82 Tank NC 02:15																	
1045155	04-Nov-10	Batch 82 Tank NA																	
1045212	04-Nov-10	Batch 83 Tank ND 21:30																	
1045213	05-Nov-10	Batch 84 Tank NC 06:00																	
1046001 1046002 B0F9570	06-Nov-10	Batch 85 Tank NA 23:55	ND (1.0)	ND (1.4)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1049218	06-Nov-10																		
1046040	09-Nov-10	Batch 86 Tank NB 05:00																	
1046078	10-Nov-10	Batch 87 Tank ND 05:00																	
1046079	10-Nov-10	Batch 88 Tank NC 05:00																	
1046208	12-Nov-10	Batch 89 Tank NA 05:30																	
B0G3490 1047006	15-Nov-10	BATCH 90 TANK ND 05:00	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	5.0	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1047005	15-Nov-10	Batch 91 Tank NC 05:00																	
1047056	15-Nov-10	Batch 92 Tank NB 21:00																	
1047099	17-Nov-10	Batch 93 Tank NA 5:00																	
1047147	18-Nov-10	Batch 94 Tank ND 05:00																	
1047204 1048051 1048064	19-Nov-10 23-Nov-10 24-Nov-10	Batch 95 Tank NC 0840 Batch 95 Tank Nd 07:00 Batch 95 TK ND 05:30	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1048002 B0G8256 1048004 1048083	22-Nov-10 24-Nov-10	Batch 96 Tank NB 05:00 Batch 96 TK NA 05:30	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	13.5	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	84.4	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1048118	25-Nov-10	Batch 97 Tank NB 0500	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	1.9	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	37.2	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1049001 1049002	29-Nov-10	Batch 98 TK NC 05:00	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1049227 1049228 1029452 1050001	02-Dec-10	Batch 99 Tank NA 0515 Batch 99 Tank NA Batch 99 Tank NC 2115	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
1050001 1050002 1050136 1050098 1961730 1050176	05-Dec-10 06-Dec-10 08-Dec-10 08-Dec-10 09-Dec-10 10-Dec-10	Batch 100 Tank NB 2115 Batch 100 Tank NB 4:45 Batch 100 Tank NB 19:40 Batch 100 Tank NB Batch 100 Tank NB Batch 100 Tank NG 6:25	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	9.1	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	31.9	ND (0.4)	ND (0.6)	2.0	ND (1.0)	ND (0.5)	ND (0.4)
1050002 1050098 1961730 1050177	05-Dec-10 06-Dec-10 08-Dec-10 10-Dec-10	Batch 101 Tank ND 4:00 Batch 101 Tank ND 21:15 Batch 101 Tank ND Batch 101 Tank ND 4:45	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	6.7	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	2.0	ND (1.0)	ND (0.5)	ND (0.4)
1050137 1961730 1050178	08-Dec-10 09-Dec-10 10-Dec-10	Batch 103 Tank NC 19:40 Batch 103 Tank NC 04:45 Batch 103 Tank NC Batch 103 Tank NC 4:45	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)
Exceeds ROPEC Discharge Limit																			

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	trans-1,2-Dichloroethylene	1,2-Dichloropropane	cis-1,3-Dichloropropylene	trans-1,3-Dichloropropylene	Ethylbenzene	Methylene Chloride	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethylene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethylene	Trichlorofluoromethane	1,3,5-Trimethylbenzene	Vinyl chloride	
Detection Limit			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
ROPEC Discharge Limit			1	0.5	0.4	0.5	0.5	4	0.4	0.5	0.6	0.5	0.5	0.4	0.6	0.4	1	0.5	0.4	
			200	850	70	70	57	210	40		40	50	80	54	800	54	20	3	400	
1030229	13-Dec-10	Batch 104 Tank NA 05:00																		
1051005		Batch 104 Tank NA 05:00	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	0.6	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)	
1051003	13-Dec-10	Batch 105 Tank ND 05:00	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	0.5	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)	
1051072	13-Dec-10	Batch 105 Tank ND 05:00(Spiked)																		
1051002	13-Dec-10	Batch 106 Tank NB 05:00	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	0.9	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	9.6	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)	
1051148	16-Dec-10	Batch 107 Tank NA 07:00	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)	
1030509	16-Dec-10	Batch 107 Tank NA 07:00																		
1051188	16-Dec-10	Batch 108 Tank NB 22:35	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	1.3	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	9	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	2.1	ND (0.4)	
1052001	20-Dec-10	Batch 109 Tank ND 07:20	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)	
1965461	21-Dec-10	Batch 109 Tank ND - 17:15																		
1965461	21-Dec-10	Batch 110 Tank NC - 17:15																		
1052047	21-Dec-10	Batch 110 Tank NC 05:00	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)	
1031005	22-Dec-10	Batch 111 Tank NA																		
1052111	22-Dec-10	Batch 111 Tank NA	ND (1.0)	ND (0.5)	ND (0.4)	ND (0.5)	ND (0.5)	ND (4.0)	ND (0.4)	ND (0.5)	ND (0.6)	ND (0.5)	ND (0.5)	ND (0.4)	ND (0.6)	ND (0.4)	ND (1.0)	ND (0.5)	ND (0.4)	

Exceeds ROPEC Discharge Limit

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	m,p-Xylenes (ug/L)	o-Xylene (ug/L)	Acenaphthene (ug/L)	Acenaphthylene (ug/L)	Anthracene (ug/L)	Benzo[a] anthracene (ug/L)	Benzo[a] pyrene (ug/L)	Benzo[b] fluoranthene (ug/L)	Benzo[ghi] perylene (ug/L)	Benzo[k] fluoranthene (ug/L)	Biphenyl (ug/L)	Chrysene (ug/L)	Dibenzo[a,h] anthracene (ug/L)	Fluoranthene (ug/L)	Fluorene (ug/L)	Indeno [1,2,3cd] pyrene (ug/L)	1-Methyl naphthalene (ug/L)	2-Methyl naphthalene (ug/L)	Naphthalene (ug/L)
Detection Limit			0.5	0.5	5	5	1	1	1	5	5	5	5	5	5	1	5	5	5	5	5
ROPEC Discharge Limit			0.32														59		32	22	59
0937006-01 0937006-02	08-Sep-09 08-Sep-09	L-N-23-090908-0500	14.8	2.2	ND	0.05	ND	ND	ND	ND	ND	ND	0.11	ND	ND	0.24	0.06	ND	ND	ND	1.61
0937146-03	11-Sep-09	L-N-23-090908-0500 Dub 1																			
0938169-01	17-Sep-09	L-NA-30-090917-500 Rough																			
0938169-02	17-Sep-09	L-NA-30-090917-500 Normal TAT	ND	ND	ND	0.48	0.01	0.02	ND	ND	ND	ND	0.11	ND	ND	0.07	0.2	ND	0.09	0.16	1.8
0938213-02	18-Sep-09	L-ND-01-090918-0500																			
0939014-01	18-Sep-09	L-NC-02-090921-0500																			
0939013-01 0939014-02	21-Sep-09 21-Sep-09	L-NA-31-090921-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06	ND	ND	0.04	ND	ND	ND	ND	0.41
0939124-01	23-Sep-09	L-ND-02-090923-0500																			
0939171-01	24-Sep-09	L-NA-32-090924-0500																			
0940039-01	29-Sep-09	L-NC-04-090929-0500																			
0940066-01 0940100-02	30-Sep-09	L-NA-33-090930-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.37
0940100-01	01-Oct-09	L-ND-03-091001-0500																			
0940146-01	02-Oct-09	L-NA-34-091002-0500																			
0940146-02	02-Oct-09	L-NC-05-091002-0500																			
0941091-01	07-Oct-09	L-ND-091007-0500																			
0943039-01 0943041-01	20-Oct-09	L-NB-17-091020-0500	ND	ND	0.09	0.4	0.26	0.02	ND	ND	ND	ND	0.13	ND	ND	18.5	0.69	0.32	0.05	0.06	0.38
0943174-01 0943175-01	23-Oct-09	L-ND-05-091023-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.44	ND	ND	ND	ND	0.08
0944041-01	26-Oct-09	L-NC-07-091027-0500			ND	0.09	0.01	0.04	0.04	0.07	0.07	0.05	0.05	0.12	ND	0.47	ND	ND	ND	0.06	0.14
0944077-01	23-Oct-09	L-NB-18-091028-0500	2.2	ND	0.09	0.53	0.97	0.43	0.64	0.68	0.4	0.35	0.1	0.85	ND	7.29	0.56	0.24	ND	ND	0.17
0944077-02	28-Oct-09	L-ND-06-091028-0500			ND	0.3	0.13	0.1	0.1	0.1	0.05	0.06	0.06	0.17	ND	1.44	0.14	ND	0.05	0.06	0.14
0944168-01	30-Oct-09	L-NC-08-091030			ND	ND	ND	ND	ND	ND	ND	ND	0.08	ND	ND	0.43	0.06	ND	0.07	0.08	0.15
0946004-01	09-Nov-09	L-ND-09-091109-0500																			
0946092-02	11-Nov-09	L-NC-22-091111-1600																			
0946183-01 0946153-01	12-Nov-09	L-NC-10-091112-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
759644	18-Nov-09	L-NC-12-091117-0500																			
760047	18-Nov-09	L-ND-12-091118-0500																			
0948037-01 0948051-01 0948044-01	23-Nov-09	L-ND-15-091123-0500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9542-1																					
0948037-02 0948051-02 9542-2	23-Nov-09	L-NB-27-091123-0500			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9577 0949001-01	30-Nov-09	L-ND-16-091130-0500	ND	ND	ND	ND	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
765476 9599 0949063-01	02-Dec-09	Batch 03 Tank NC 0800			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
764591 9600 0949100-01	03-Dec-09	Batch 04 Tank ND 0500			<0.05	<0.05	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.01	<0.05	<0.05	0.07	0.09	0.11
9675 766885 0951028-01	15-Dec-09	Batch 06 Tank NC 05-00			<0.05	0.05	0.01	<0.01	<0.01	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	0.19	<0.05	<0.05	<0.05	<0.05	0.1
0952004-01 A9H2425	21-Dec-09	Batch 05-NC-0500			<0.05	0.06	0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	0.08
0953002-01 A9H4015	29-Dec-09	Batch 7 L-NB																			
1000876	11-Jan-10	Batch II Tank NA																			
1000667 1001030 1001031 1000985	13-Jan-10	Batch II Tank NA			<0.2	<0.2	0.2	<0.2	0.04	<0.9	<0.2	<0.2		<0.2	<0.2	0.4	<0.2	<0.2	<0.2	<0.2	0.3
1001001 1001285 1001286	16-Jan-10	BATCH 13 TANK NC	<1.0	<0.5	<0.2	9.8	<0.2	<0.2	0.16	<0.9	0.2	<0.9		<0.2	<0.2	0.8	<0.2	0.3	<0.2	<0.2	24.9
10-362374 1001486 1001878 1001876	25-Jan-10	Batch 14 TK NC 0500	<1.0	<0.5	0.3	9.6	<0.2	<0.2	0.04	<0.9	<0.2	<0.9		<0.2	<0.2	1.3	<0.2	0.3	0.3	<0.2	19.1
10-362372 1001487 1001879 1001877	25-Jan-10	Batch 15 Tank NA	5.4	0.8	<0.2	<0.2	<0.2	<0.2	0.04	<0.9	<0.2	<0.9		<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	0.5
1001902 8011655 1002126 1002130	01-Feb-10	Batch 08 Tank NA 0400	2.4	<0.5	<0.2	0.3	0.2	<0.2	0.46	<0.9	0.2	<0.9		0.4	<0.2	0.7	<0.2	<0.2	<0.2	<0.2	0.3
Exceeds ROPEC Discharge Limit																					

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	m,p-Xylenes (ug/L)	o-Xylene (ug/L)	Acenaphthene (ug/L)	Acenaphthylene (ug/L)	Anthracene (ug/L)	Benzo[a] anthracene (ug/L)	Benzo[a] pyrene (ug/L)	Benzo[b] fluoranthene (ug/L)	Benzo[ghi] perylene (ug/L)	Benzo[k] fluoranthene (ug/L)	Biphenyl (ug/L)	Chrysene (ug/L)	Dibenzo[a,h] anthracene (ug/L)	Fluoranthene (ug/L)	Fluorene (ug/L)	Indeno [1,2,3cd] pyrene (ug/L)	1-Methyl naphthalene (ug/L)	2-Methyl naphthalene (ug/L)	Naphthalene (ug/L)
Detection Limit			0.5	0.5	5	5	1	1	1	5	5	5	5	5	5	1	5	5	5	5	5
ROPEC Discharge Limit			0.32														59		32	22	59
1001903 1002129 8011655 1002125	01-Feb-10	Batch 18 Tank ND 0500	<1.0	<0.5	<0.2	<0.2	<0.2	<0.2	<0.01	<0.9	<0.2	<0.9		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.2
8012419 1002039 1002040	02-Feb-10	BATCH 19 TANK NH	74.5	25.9	0.2	4.0	<0.2	<0.2	0.23	<0.9	<0.2	<0.9		<0.2	<0.2	0.4	0.6	<0.2	0.4	0.6	6.8
1001901 1002124 8011655 1002131	01-Feb-10	Batch 20 Tank NB 0400	2	<0.5	<0.2	0.2	0	<0.2	0	<0.9	<0.2	<0.9		0	<0.2	1	<0.2	<0.2	<0.2	<0.2	0.3
1001904 1002127 1002128 8011655	01-Feb-10	Batch 21 Tank NC 0500	4	<0.5	<0.2	<0.2	<0.2	<0.2	0	<0.9	<0.2	<0.9		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0
1002327 1002107 8012819 1002912	03-Feb-10	Batch 22 Tank NA	1	<0.5																	
1002328 1002107 8012824 1002914	03-Feb-10	Batch 23 Tank NG	<1.0	<0.5																	
1002464 1002626 8014790 1002911 1002909	07-Feb-10	Batch 27 Tank NC	<1.0	<0.5										<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.1
1002523 8015247 1003393 1002654	09-Feb-10	Batch 26 Tank NA	1.8	<0.5	<0.2	<0.2	<0.2	<0.2	0.02	<0.9	<0.2	<0.9		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
1002314 8014172 1002672	05-Feb-10 10-Feb-10	Batch 24 Tank NF	<1.0	<0.5																	
8014604 1002664 1002447	05-Feb-10	Batch 25 TK ND 0500	<1.0	<0.5																	
8018250 1003036 1003035 1002879	16-Feb-10	Batch 29 Tank ND 05:00	2.9	1.1	0.2	10.7	0.5	<0.2	0.2	<0.9	<0.2	<0.9		0.2	<0.2	0.7	1.7	<0.2	0.3	0.4	15.7
8017124 1003394 1003305 1003177	12-Feb-10 19-Feb-10 18-Feb-10	Batch 28 TK NC	<1.0	<0.5	<0.2	0.4	<0.2	<0.2	<0.1	<0.9	<0.2	<0.9		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1
8020866 1003434 1003435 1003436	22-Feb-10	Batch 30 Tank ND 0500	<1.0	<0.5	<0.2	0.3	<0.2	<0.2	<0.01	<0.9	<0.2	<0.9		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.8
1003365 8031982 1005368 1003365	17-Mar-10	Batch 33 Tank ND	<1.0	<0.5	<0.2	<0.2	<0.2	<0.2	0.02	<0.9	<0.2	<0.9		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1005519	19-Mar-10	Batch 31 Tank ND 05:00																			
1005372 8034223 1013128	23-Mar-10 25-Mar-10	Batch 32 TK NA 0500	5.8	0.8																	
1015103 1007058	7-Apr-10 9-Apr-10	Batch 32 Tank NB																			
1016037	12-Apr-10	Batch 32 TK NB 04/12/10 @1500			0.31	ND (0.05)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	0.5	ND (0.05)	ND (0.05)	0.02	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
1006158 1006160 1006159	29-Mar-10	Batch 33 Tank NB	4.1	0.6																	
1006343 1015104 8040942	1-Apr-10 7-Apr-10	Batch 33 Tank NA			<0.2	<0.2	<0.2	<0.2	<0.01	<0.9	<0.2	<0.9		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1006182 1006183 1006184	29-Mar-10	Batch 34 TK NC	<1.0	<0.5	<0.2	<0.2	0.3	<0.2	0.44	<0.9	0.3	<0.9		0.3	<0.2	2.6	<0.2	<0.2	<0.2	<0.2	<0.2
1015004 8039637 1015004 8039637	2-Apr-10	Batch 34 Tank NC 05:00 Batch 34 Vanson Truck 05:00																			
1015060	6-Apr-10	Batch 35 Tank ND 0500	ND (0.5)	ND (0.5)	ND (0.05)	0.16	0.01	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.06	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.33
8040952 1006805	7-Apr-10	Batch 35 TANK ND																			
1015209	9-Apr-10	Batch 35 TK ND																			

Exceeds ROPEC Discharge Limit

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	m,p-Xylenes (ug/L)	o-Xylene (ug/L)	Acenaphthene (ug/L)	Acenaphthylene (ug/L)	Anthracene (ug/L)	Benzo[a] anthracene (ug/L)	Benzo[a] pyrene (ug/L)	Benzo[b] fluoranthene (ug/L)	Benzo[ghi] perylene (ug/L)	Benzo[k] fluoranthene (ug/L)	Biphenyl (ug/L)	Chrysene (ug/L)	Dibenzo[a,h] anthracene (ug/L)	Fluoranthene (ug/L)	Fluorene (ug/L)	Indeno [1,2,3cd] pyrene (ug/L)	1-Methyl naphthalene (ug/L)	2-Methyl naphthalene (ug/L)	Naphthalene (ug/L)
Detection Limit			0.5	0.5	5	5	1	1	1	5	5	5	5	5	5	1	5	5	5	5	5
ROPEC Discharge Limit			0.32														59		32	22	59
B040388 1015085	6-Apr-10 6-Apr-10	Batch 36 TANK NC																			
1016074 1007974	14-Apr-10 16-Apr-10	Batch 36 TK NC 0415																			
1015213 1016169 B042247 1015214 1007059	9-Apr-10	Batch 37 TK NA	ND (0.5)	ND (0.5)	ND (0.05)	0.07	0.26	0.02	0.03	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.16	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.15
1016510 B044328	15-Apr-10	Batch 37 Tank NA 0500																			
1016072 1007622	14-Apr-10	Batch 38 TK NB 0415			ND (0.25)	0.82	2.27	1.62	7.06	5.17	5.82	1.97	ND (0.25)	11.4	ND (0.25)	11.4	0.56	1.75	ND (0.25)	ND (0.25)	0.31
1016111	15-Apr-10	Batch 38 Tank NB 0500																			
1017003	19-Apr-10	Batch 38 TK ND 0530			0.35	2.47	0.01	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	0.26	ND (0.05)	ND (0.05)	0.14	0.25	ND (0.05)	0.07	0.06	4.77
1017006 B046389 1008016	19-Apr-10	Batch 39 TK NC 05:30			0.21	2.44	0.02	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	0.27	ND (0.05)	ND (0.05)	0.16	0.27	ND (0.05)	0.08	0.07	4.32
1017094	21-Apr-10	Batch 39 TK NC 05:00																			
B046323 1017005 1008015	19-Apr-10	BATCH 40 TANK NB 07:00	3.7	ND (0.5)	ND (0.05)	0.11	0.01	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.1	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.15
1017099	21-Apr-10	Batch 40 TK NB 05:00																			
1017095 1008328 B048023	20-Apr-10	Batch 41 TK NA 1415 #1			ND (0.05)	0.1	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.15	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.17
1018052	27-Apr-10	Batch 41 Tank NA 05:00																			
1009140 B052712 1018188 1009417	30-Apr-10 29-Apr-10 4-May-10	Batch 42 Tank NA 0500	2.4	ND (0.5)	ND (0.05)	ND (0.05)	ND (0.01)	0.02	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.18	0.05	ND (0.05)	ND (0.05)	ND (0.05)	0.13
B053472 1009291	3-May-10 6-May-10	Batch 43 Tank NB 0500																			
B056798 1009959 1019219	7-May-10	Batch 43 Tank NC 14:25	ND (0.5)	ND (0.5)	ND (0.05)	ND (0.05)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.14
1020001 B057205 1010014	10-May-10	Batch 45 Tank NA																			
1021088 1021089 B062284	18-May-10	Batch 46 Tank NA 11:00	8.3	1.2	ND (0.05)	0.24	0.03	0.03	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	0.05	ND (0.05)	ND (0.05)	0.23	0.11	ND (0.05)	ND (0.05)	ND (0.05)	0.42
1022011 B065241	25-May-10	Batch 47 Tank NB 05:00	7.7	1.5	ND (0.05)	0.14	0.04	0.13	0.1	0.12	0.11	0.09	0.05	0.14	0.1	0.35	ND (0.05)	0.1	ND (0.05)	ND (0.05)	0.47
1022011 B065241	25-May-10	Batch 48 Tank NB 05:00	ND (0.5)	ND (0.5)	ND (0.05)	0.22	ND (0.01)	0.02	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	0.07	ND (0.05)	ND (0.05)	0.1	ND (0.05)	ND (0.05)	ND (0.05)	0.06	0.27
1022157 B067453	28-May-10	Batch 49 Tank NA	4.6	0.5	ND (0.05)	0.4	0.06	0.08	0.1	0.12	0.13	0.06	0.08	0.15	ND (0.05)	0.67	0.1	0.06	ND (0.05)	ND (0.05)	0.37
B075971 1025016 1025018	14-Jun-10	Batch 50 TK NA 0515	6.5	1.9	ND (0.05)	0.1	0.03	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.28	0.08	ND (0.05)	ND (0.05)	ND (0.05)	0.16
1026012 1026014 B078892	21-Jun-10	Batch 51 Tank NA 0500	26.9	4.5	ND (0.05)	0.19	0.13	0.08	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.08	ND (0.05)	0.99	0.16	ND (0.05)	ND (0.05)	ND (0.05)	0.43
1026010 B078863	21-Jun-10	Batch 52 Tank NB 0500																			
B081319 1026110 1026111 1026112	23-Jun-10	Batch 53 Tank NC	ND (0.5)	ND (0.5)	ND (0.05)	ND (0.05)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
1027007 B083825	28-Jun-10	Batch 54 Tank ND 05:00																			
1027009 1027011 B083793	28-Jun-10	Batch 55 Tank NA 05:00	37.7	4.8	ND (0.05)	11.7	0.45	0.11	0.07	0.06	0.07	ND (0.05)	0.62	0.19	ND (0.05)	2.32	1.09	0.05	0.18	0.16	1.36
1027101 B084557	29-Jun-10	Batch 56 TKNB 1100																			
1027166 B085689	30-Jun-10	Batch 57 Tank NC 14:00																			
1028046 1028044 1028045 B087409	06-Jul-10	Batch 58 TK NA 0600	ND (0.5)	ND (0.5)	ND (0.05)	0.58	0.03	0.03	ND (1)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.28	0.09	ND (0.05)	ND (0.05)	ND (0.05)	0.21
1028164 B089585	08-Jul-10	Batch 59 Tank NB 15:15																			
1029009 1029011 1029010 B090897	12-Jul-10	Batch 60 Tank NC	ND (0.5)	ND (0.5)	ND (0.05)	ND (0.05)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
1029114 B092722	14-Jul-10	Batch 61 Tank NA																			
1031019 1031020 B099095	24-Jul-10	Batch 62 Tank NA - 03:00			ND (0.05)	0.13	0.07	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	0.06	ND (0.05)	ND (0.05)	0.39	0.14	ND (0.05)	0.07	0.09	0.15
Exceeds ROPEC Discharge Limit																					

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	m,p-Xylenes	o-Xylene	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Biphenyl	Chrysene	Dibenzo[a,h]anthracene	Fluoranthene	Fluorene	Indeno [1,2,3cd]pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	
Detection Limit			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
ROPEC Discharge Limit			0.5	0.5	5	5	1	1	1	5	5	5	5	5	5	1	5	5	5	5	5	
			0.32														59		32	22	59	
1031139 BOA0824	27-Jul-10	Batch 63 Tank NB - 23:30			ND (0.05)	0.12	0.03	ND (0.01)	ND (0.01)	ND (0.05)	0.06	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.22	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.35	
1032002 1032014 BOA3299	30-Jul-10	Batch 64 Tank NA - 3:00	ND (0.5)	ND (0.5)	ND (0.05)	0.2	0.17	0.27	0.57	0.42	0.44	0.2	ND(0.05)	0.52	ND (0.05)	2.6	0.15	0.22	ND (0.05)	ND (0.05)	0.45	
1032003 1032014 BOA3338	31-Jul-10	Batch 65 Tank NC - 22:30	ND (0.5)	ND (0.5)	ND (0.05)	0.2	0.16	0.25	0.55	0.43	0.44	0.18	ND(0.05)	0.51	ND (0.05)	2.22	0.07	0.22	ND (0.05)	ND (0.05)	0.09	
1033004 1033110 BOA8930	08-Aug-10 11-Aug-10 12-Aug-10	Batch 66 Tank NA	1.2	ND (0.5)	ND (0.05)	6.9	0.09	0.06	0.03	ND (0.05)	0.05	ND (0.05)	0.32	0.08	ND (0.05)	0.76	0.77	ND (0.05)	0.08	ND (0.05)	1.86	
1033178 BOA8930	12-Aug-10	Batch 67 Tank NB 2:00	10.2	6	ND (0.05)	0.39	0.02	0.04	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	0.27	0.09	ND (0.05)	0.99	0.62	ND (0.05)	ND (0.05)	ND (0.05)	1.69	
1034003 1034068 1034068	16-Aug-10 17-Aug-10	Batch 68 Tank NC	ND (0.5)	ND (0.5)	ND (0.05)	0.08	0.04	0.04	0.02	ND (0.05)	ND (0.05)	ND (0.05)	0.05	0.06	ND (0.05)	0.44	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.1	
1034035 1034037 1035156 1034180	16-Aug-10 25-Aug-10 19-Aug-10	Batch 69 TK ND 11:50	ND (0.5)	ND (0.5)	ND (0.05)	ND (0.05)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	
1042054 1042055 BO3E3801	12-Oct-10	TKNC Batch 70 1445	ND (0.5)	ND (0.5)	ND (0.05)	0.14	0.04	0.07	0.1	0.09	0.12	ND (0.05)	0.07	0.07	ND (0.05)	0.42	0.06	0.08	ND (0.05)	ND (0.05)	0.16	
1042100 BOE4430	13-Oct-10	Batch 71 Tank ND 13:00																				
1042233 1043001	15-Oct-10 16-Oct-10	Batch 72 Tank NA 15:25 Batch 73 Tank NC 3:00																				
1043060 BOE74927	18-Oct-10	Batch 74 Tank NB 22:30																				
1043114	20-Oct-10	Batch 75 Tank ND 06:00																				
1043172	21-Oct-10	Batch 76 Tank NA 08:50																				
1044004	24-Oct-10	Batch 77 Tank NB 01:00																				
1044223	28-Oct-10	Batch 78 Tank NC 02:00																				
1045002	30-Oct-10	Batch 79 Tank ND 08:00																				
1045006	01-Nov-10	Batch 80 TK NA 03:30	4.7	0.7	ND(0.05)	ND(0.05)	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	0.25	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	0.28	
1045061	02-Nov-10	Batch 81 Tank NB 04:15																				
1045115	03-Nov-10	Batch 82 Tank NC 02:15																				
1045155	04-Nov-10	Batch 82 Tank NA																				
1045212	04-Nov-10	Batch 83 Tank ND 21:30																				
1045213	05-Nov-10	Batch 84 Tank NC 06:00																				
1046001 1046002 BOF9570	06-Nov-10	Batch 85 Tank NA 23:55	ND(0.5)	ND(0.5)	0.66	0.64	0.10	0.09	ND (0.01)	0.10	0.08	0.06	0.56	0.24	ND (0.05)	2.77	1.81	ND (0.05)	0.08	0.09	1.88	
1049218	06-Nov-10				0.08	0.89	0.12	0.10	ND (0.01)	0.14	0.09	0.07	0.57	0.23	ND (0.05)	3.06	2.03	0.07	0.15	0.25	2.05	
1046040	09-Nov-10	Batch 86 Tank NB 05:00																				
1046078	10-Nov-10	Batch 87 Tank ND 05:00																				
1046079	10-Nov-10	Batch 88 Tank NC 05:00																				
1046208	12-Nov-10	Batch 89 Tank NA 05:30																				
BOG3490 1047006	15-Nov-10	BATCH 90 TANK ND 05:00	ND (0.5)	1.6	ND (0.05)	0.12	0.02	0.06	ND (0.01)	ND (0.05)	0.06	ND (0.05)	0.49	0.12	ND (0.05)	0.54	0.42	ND (0.05)	0.14	0.16	5.73	
1047005	15-Nov-10	Batch 91 Tank NC 05:00																				
1047056	15-Nov-10	Batch 92 Tank NB 21:00																				
1047099	17-Nov-10	Batch 93 Tank NA 5:00																				
1047147	18-Nov-10	Batch 94 Tank ND 05:00																				
1047204 1048051 1048084	19-Nov-10 23-Nov-10 24-Nov-10	Batch 95 Tank NC 08:40 Batch 95 Tank Nd 07:00 Batch 95 TK ND 05:30	ND (0.5)	ND (0.5)	ND (0.05)	0.15	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.17	0.08	ND (0.05)	ND (0.05)	ND (0.05)	0.19
1048002 BOG8256 1048004 1048083	22-Nov-10 24-Nov-10	Batch 96 Tank NB 05:00 Batch 96 TK NA 05:30	48.2 ND (0.5)	117 ND (0.5)	ND (0.05)	0.5	0.05	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.34	0.1	ND (0.05)	ND (0.05)	ND (0.05)	0.37	
1048118	25-Nov-10	Batch 97 Tank NB 05:00	8.6	39.3																		
1049001 1049002	29-Nov-10	Batch 98 TK NC 05:00	ND (0.5)	ND (0.5)	ND (0.05)	0.08	0.03	0.05	ND (0.01)	0.06	0.17	ND (0.05)	ND (0.05)	0.07	ND (0.05)	0.26	ND (0.05)	0.1	ND (0.05)	ND (0.05)	0.1	
1049227			ND (0.5)	ND (0.5)	ND (0.05)	0.07	0.02	0.09	ND (0.01)	ND (0.05)	0.31	ND (0.05)	0.07	0.09	ND (0.05)	0.33	0.09	0.24	ND (0.05)	ND (0.05)	0.22	
1049228	02-Dec-10	Batch 99 Tank NA 05:15																				
1029452 1050001		Batch 99 Tank NA Batch 99 Tank NC 21:15																				
1050001 1050002 1050136 1050098 1961730 1050176	05-Dec-10 06-Dec-10 08-Dec-10 08-Dec-10 09-Dec-10 10-Dec-10	Batch 100 Tank NB 21:15 Batch 100 Tank NB 4:45 Batch 100 Tank NB 19:40 Batch 100 Tank NB Batch 100 Tank NB Batch 100 Tank NG 6:25			ND (0.05)	0.23	0.03	0.05	0.02	ND (0.05)	0.05	ND (0.05)	ND (0.05)	0.07	ND (0.05)	0.22	0.07	ND (0.05)	ND (0.05)	ND (0.05)	0.21	
1050002 1050098 1961730 1050177	05-Dec-10 06-Dec-10 08-Dec-10 10-Dec-10	Batch 101 Tank ND 4:00 Batch 101 Tank ND 21:15 Batch 101 Tank ND Batch 101 Tank ND 4:45			ND (0.05)	0.32	0.04	0.06	0.03	ND (0.05)	ND (0.05)	ND (0.05)	0.05	0.07	ND (0.05)	0.55	0.13	ND (0.05)	ND (0.05)	ND (0.05)	0.5	
1050137 1961730 1050178	08-Dec-10 09-Dec-10 09-Dec-10 10-Dec-10	Batch 103 Tank NC 19:40 Batch 103 Tank NC 04:45 Batch 103 Tank NC Batch 103 Tank NC 4:45	1.3	0.8	ND (0.05)	ND (0.05)	ND (0.01)	0.02	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.09	ND (0.05)	0.13	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	

Exceeds ROPEC Discharge Limit

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	m,p-Xylenes	o-Xylene	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[ghi]perylene	Benzo[k]fluoranthene	Biphenyl	Chrysene	Dibenzo[a,h]anthracene	Fluoranthene	Fluorene	Indeno [1,2,3cd]pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene
Detection Limit			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
ROPEC Discharge Limit			0.5	0.5	5	5	1	1	1	5	5	5	5	5	5	1	5	5	5	5	5
1030229	13-Dec-10	Batch 104 Tank NA 05:00															59		32	22	59
1051005		Batch 104 Tank NA 05:00	1.5	ND (0.5)	ND (0.05)	0.06	ND (0.01)	0.03	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.05	ND (0.05)	0.17	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.16
1051003	13-Dec-10	Batch 105 Tank ND 05:00	ND (0.5)	ND (0.5)	ND (0.05)	ND (0.05)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	0.05	ND (0.05)	ND (0.05)	0.11	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.1
1051072	13-Dec-10	Batch 105 Tank ND 05:00(Spiked)																			
1051002	13-Dec-10	Batch 106 Tank NB 05:00	3.5	14.3	ND (0.05)	0.1	0.01	0.03	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	0.07	ND (0.05)	ND (0.05)	0.24	0.08	ND (0.05)	ND (0.05)	ND (0.05)	0.24
1051148	16-Dec-10	Batch 107 Tank NA 07:00	ND (0.5)	ND (0.5)	ND (0.05)	0.1	0.17	0.02	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.11	0.08	ND (0.05)	ND (0.05)	ND (0.05)	0.11
1030509	16-Dec-10	Batch 107 Tank NA 07:00																			
1051188	16-Dec-10	Batch 108 Tank NB 22:35	4.9	19.1	ND (0.05)	0.13	0.03	0.1	0.06	0.06	ND (0.05)	0.06	0.05	0.08	ND (0.05)	0.2	0.06	ND (0.05)	ND (0.05)	ND (0.05)	0.28
1052001	20-Dec-10	Batch 109 Tank ND 07:20	1.3	ND (0.5)	ND (0.05)	0.07	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	0.05	ND (0.05)	ND (0.05)	0.1	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.14
1965461	21-Dec-10	Batch 109 Tank ND - 17:15																			
1965461	21-Dec-10	Batch 110 Tank NC - 17:15																			
1052047	21-Dec-10	Batch 110 Tank NC 05:00	ND (0.5)	ND (0.5)	ND (0.05)	ND (0.05)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.15	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
1031005	22-Dec-10	Batch 111 Tank NA																			
1052111	22-Dec-10	Batch 111 Tank NA	ND (0.5)	ND (0.5)	ND (0.05)	0.07	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.04	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)

Exceeds ROPEC Discharge Limit

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	Phenanthrene	Pyrene	Benzo [e] pyrene	Benzo [j] fluoranthene	7H-Dibenzo [c,g] perylene	Dibenz [a,j] acridine	Dibenzo [a,i] pyrene	Perylene	PAHs
			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Detection Limit			5	1	0.5	0.5	0.5	0.5	5		
ROPEC Discharge Limit											15
0921002-01 8418-24	17-May-09	L-NA-6	3.55	0.25	ND	ND	ND	ND	ND	ND	5
0921002-02 8418-25	17-May-09	L-NA-7	3.81	0.3	ND	ND	ND	ND	ND	ND	5
0921135-01 8418-34	21-May-09	L-NA-12	0.12	0.03	ND	ND	ND	ND	ND	ND	0
0921136-01 8418-35	21-May-09	L-NA-13	0.18	0.12	ND	ND	ND	ND	ND	ND	0
0922108-01 8418-38	27-May-09	L-NA-15	0.52	0.4	ND	ND	ND	ND	ND	ND	1
0923120-03 8418-43	03-Jun-2009	L-NB-2	0.38	0.08	ND	ND	ND	ND	ND	ND	1
0923120-02 8418-42	03-Jun-2009	L-NA-17	1.17	0.1	ND	ND	ND	ND	ND	ND	2
0924087-02 8418-46	10-Jun-2009	L-NB-04	0.26	0.64	ND	ND	ND	ND	ND	ND	1
0924087-05 8418-46	11-Jun-2009	L-NB-04 Doubt									
0924217-02 8418-47	12-Jun-09	L-NA-20	0.8	0.02	ND	ND	ND	ND	ND	ND	1
0924217-03 8418-47	16-Jun-09	L-NA-20									
0925004-14 8418-48	15-Jun-09	L-NA-21	2.77	0.84	ND	ND	ND	ND	ND	ND	4
0925004-16 8418-48	17-Jun-09	L-NA-21									
0925004-17 8418-48	17-Jun-09	L-NA-21									
0925171-01 8418-50	19-Jun-09	L-N-12	1.77	1.55	ND	ND	ND	ND	ND	ND	5
0926001-01 8418-51	22-Jun-09	L-N-13	0.56	0.58	ND	ND	ND	ND	ND	ND	2
0926001-02 8418-51	23-Jun-09	L-N-13									
0926107-02 8418-52	24-Jun-09	L-NB062409	0.33	0.42	ND	ND	ND	ND	ND	ND	2
0926107-01 8418-52	25-Jun-09	L-NB-6									
0926143-02 8418-53	26-Jun-09	L-NA-22 02:00	ND	0.37	ND	ND	ND	ND	ND	ND	2
0927008-04 8418-55	28-Jun-09	L-NA-22-090629									
0927009-02 8418-55	27-Jun-09	L-NB-07-090627_02:40	0.14	0.05	ND	ND	ND	ND	ND	ND	1
0927009-03 8418-55	27-Jun-09	L-NB-07-090629-0800									
0927009-01 8418-54	27-Jun-09	L-NB-07-090627									
0927009-01 8418-54	27-Jun-09	L-N-15-090627	0.17	0.03	ND	ND	ND	ND	ND	ND	0
0928113-01 8418-59	08-Jul-09	L-NB-08 08072009 16:00	0.35	0.52	ND	ND	ND	ND	ND	ND	2
0928155-01 8418-60	10-Jul-09	L-NB-08-10072009 0500	0.49	0.84	ND	ND	ND	ND	ND	ND	3
0929003-01 8418-60	13-Jul-09	L-NA-23-090713-0200	0.51	0.12	ND	ND	ND	ND	ND	ND	1
0929003-02 8418-61	13-Jul-09	L-N-16-090713-0200	0.94	0.56	ND	ND	ND	ND	ND	ND	2
0929074-01 8418-62	15-Jul-09	L-NA-24-090715-0200	0.15	0.04	ND	ND	ND	ND	ND	ND	0
0929106-01 8418-63	16-Jul-09	L-NB-09-090716-0200	0.14	0.19	ND	ND	ND	ND	ND	ND	1
0929130-01 8418-64	17-Jul-09	L-N-17-090717-0200	0.7	0.5	ND	ND	ND	ND	ND	ND	2
0930001-01 8418-65	20-Jul-09	L-NA-25 090720-0200	0.35	0.09	ND	ND	ND	ND	ND	ND	1
0930001-02 8418-66	20-Jul-09	L-N-18 090720-0200	0.68	0.67	ND	ND	ND	ND	ND	ND	2
0930115-01 8418-67	23-Jul-09	L-NB-10 090723-0200	0.13	0.24	ND	ND	ND	ND	ND	ND	1
0930147-01 8418-68	24-Jul-09	L-NA-26 090724-0200	0.34	0.08	ND	ND	ND	ND	ND	ND	1
0930147-02 8418-69	24-Jul-09	L-N-19 090724-0200	0.47	0.33	ND	ND	ND	ND	ND	ND	1
0931241-01 8418-70	31-Jul-09	L-NB-11-090731-0200	ND	0.15	ND	ND	ND	ND	ND	ND	0
0932006-01 8418-70	04-Aug-09	L-NA-27-090804-0500									
0932092-01 8418-70	06-Aug-09	L-NB-12 090806-0500									
0932092-02 8418-70	06-Aug-09	L-NB-12 090806-0500	0.1	0.18	ND	ND	ND	ND	ND	ND	1
0933139-01 8418-69	13-Aug-09	L-NA-28-090813-0500									
0933139-02 8418-69	13-Aug-09	L-NB-13-090813-0500	0.11	0.15	ND	ND	ND	ND	ND	ND	1
0935121-01 8418-70	26-Aug-09	L-NB-16-090826-0500									
0935121-02 8418-70	26-Aug-09	L-NB-16-090826-0500	ND	ND	ND	ND	ND	ND	ND	ND	0
0935203-01 8418-70	27-Aug-09	L-N-22-090827-0500	ND	ND	ND	ND	ND	ND	ND	ND	0

Exceeds ROPEC Discharge Limit

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	Phenanthrene (ug/L)	Pyrene (ug/L)	Benzo [e] pyrene (ug/L)	Benzo [j] fluoranthene (ug/L)	7H- Dibenzo [c,g] fluoranthene (ug/L)	Dibenz [a,j] acridine (ug/L)	Dibenzo [a,i] pyrene (ug/L)	Perylene (ug/L)	PAHs (ug/L)
Detection Limit			5	1	0.5	0.5	0.5	0.5	0.5	5	15
ROPEC Discharge Limit											
0937006-01	08-Sep-09	L-N-23-090908-0500									
0937006-02	08-Sep-09		0.49	0.13	ND	ND	ND	ND	ND	ND	1
0937146-03	11-Sep-09	L-N-23-090908-0500 Dub 1									
0938169-01	17-Sep-09	L-NA-30-090917-500 Rough									
0938169-02	17-Sep-09	L-NA-30-090917-500 Normal TAT	0.26	0.08	ND	ND	ND	ND	ND	ND	0
0938213-02	18-Sep-09	L-ND-01-090918-0500									
0939014-01	18-Sep-09	L-NC-02-090921-0500									
0939013-01	21-Sep-09	L-NA-31-090921-0500	0.07	0.02	ND	ND	ND	ND	ND	ND	0
0939014-02	21-Sep-09										
0939124-01	23-Sep-09	L-ND-02-090923-0500									
0939171-01	24-Sep-09	L-NA-32-090924-0500									
0940039-01	29-Sep-09	L-NC-04-090929-0500									
0940066-01	30-Sep-09	L-NA-33-090930-0500	0.1	0.09	ND	ND	ND	ND	ND	ND	0
0940100-02	01-Oct-09	L-ND-03-091001-0500									
0940146-01	02-Oct-09	L-NA-34-091002-0500									
0940146-02	02-Oct-09	L-NC-05-091002-0500									
0941091-01	07-Oct-09	L-ND-091007-0500									
0943039-01	20-Oct-09	L-NB-17-091020-0500	ND	3.3	ND	ND	ND	ND	ND	ND	22.4
0943174-01	23-Oct-09	L-ND-05-091023-0500	0.25	0.47	ND	ND	ND	ND	ND	ND	1
0943175-01											
0944041-01	26-Oct-09	L-NC-07-091027-0500	0.31	0.66	ND	ND	ND	ND	ND	ND	2
0944077-01	23-Oct-09	L-NB-18-091028-0500	7.64	9.33	ND	ND	ND	ND	ND	ND	26.82
0944077-02	28-Oct-09	L-ND-06-091028-0500	1.35	1.9	ND	ND	ND	ND	ND	ND	5
0944168-01	30-Oct-09	L-NC-08-091030	0.47	ND	ND	ND	ND	ND	ND	ND	1
0945099-03											
0946004-01	09-Nov-09	L-ND-09-091109-0500									
0946092-02	11-Nov-09	L-NB-22-091111-1600									
0946183-01	12-Nov-09	L-NC-10-091112-0500	ND	ND							0
0946153-01											
75964	18-Nov-09	L-NC-12-091117-0500									
760047	18-Nov-09	L-ND-12-091118-0500									
0948037-01											
0948051-01	23-Nov-09	L-ND-15-091123-0500	ND	ND	ND	ND	ND	ND	ND	ND	0
0948044-01											
9542-1											
0948037-02	23-Nov-09	L-NB-27-091123-0500	ND	ND	ND	ND	ND	ND	ND	ND	0
0948051-02											
9542-2											
9577											
0949001-01	30-Nov-09	L-ND-16-091130-0500	ND	0.03	ND	ND	ND	ND	ND	ND	0
765476											
9599	02-Dec-09	Batch 03 Tank NC 0800									
0949063-01			ND	ND	ND	ND	ND	ND	ND	ND	0
764591											
9600	03-Dec-09	Batch 04 Tank ND 0500									
0949100-01			<0.05	<0.01	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	0
9675											
766885	15-Dec-09	Batch 06 Tank NC 05:00									
0951028-01			0.24	0.17	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1
0952004-01	21-Dec-09	Batch 05-NC-0500	0.12	0.12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0
A9H2425											
0953002-01	29-Dec-09	Batch 7 L-NB									
A9H4015											
1000876	11-Jan-10	Batch II Tank NA									
1000667			0.8	0.4	<0.2		<0.2	<0.2	<0.2	<0.2	2
1001030	13-Jan-10	Batch II Tank NA									
1001031											
1000985											
1001001			1	<0.2	<0.2	<0.9	<0.2	<0.2	<0.2	<0.2	1
1001285	16-Jan-10	BATCH 13 TANK NC									
1001286											
10-362374											
1001486	25-Jan-10	Batch 14 TK NC 0500	0.7	<0.2	<0.2	<0.9	<0.2	<0.2	<0.2	<0.2	1
1001878											
1001876											
10-362372											
1001487	25-Jan-10	Batch 15 Tank NA	<0.2	<0.2	<0.2	<0.9	<0.2	<0.2	<0.2	<0.2	0
1001879											
1001877											
1001902											
8011655	01-Feb-10	Batch 08 Tank NA 0400									
1002126			0.7	1	<0.2	<0.9	<0.2	<0.2	<0.2	<0.2	4
1002130											

Exceeds ROPEC Discharge Limit

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	Phenanthrene	Pyrene	Benzo [e] pyrene	Benzo [f] fluoranthene	7H-Dibenzo [c,g] fluoranthene	Dibenz [a,j] acridine	Dibenzo [a,h] pyrene	Perylene	PAHs
			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Detection Limit			5	1	0.5	0.5	0.5	0.5	0.5	5	15
ROPEC Discharge Limit											
1001903 1002129 8011655 1002125	01-Feb-10	Batch 18 Tank ND 0500	<0.2	<0.2	<0.2	<0.9	<0.2	<0.2	<0.2	<0.2	0
8012419 1002039 1002040	02-Feb-10	BATCH 19 TANK NH	0.7	0.5	<0.2	<0.9	<0.2	<0.2	<0.2	<0.2	2
1001901 1002124 8011655 1002131	01-Feb-10	Batch 20 Tank NB 0400	0.8	2	<0.2	<0.9	<0.2	<0.2	<0.2	<0.2	5
1001904 1002127 1002128 8011655	01-Feb-10	Batch 21 Tank NC 0500	<0.2	<0.2	<0.2	<0.9	<0.2	<0.2	<0.2	<0.2	0
1002327 1002107 8012819 1002912	03-Feb-10	Batch 22 Tank NA									
1002328 1002107 8012824 1002914	03-Feb-10 03-Feb-10	Batch 23 Tank NG Batch 23 Tank NG									
1002464 1002626 8014790 1002911 1002909	07-Feb-10	Batch 27 Tank NC	0.2	<0.2	<0.2	<0.9	<0.2	<0.2	<0.2	<0.2	0
1002523 8015247 1003393 1002654	09-Feb-10	Batch 26 Tank NA									
1002314 8014172 1002672	05-Feb-10 10-Feb-10	Batch 24 Tank NF Batch 24 Tank NF									
8014604 1002664 1002447	05-Feb-10	Batch 25 Tk ND 0500									
8018250 1003036 1003035 1002879	16-Feb-10	Batch 29 Tank ND 05:00	2.8	0.9	<0.2	<0.9	<0.2	<0.2	<0.2	<0.2	5.3
8017124 1003394 1003305 1003177	12-Feb-10 19-Feb-10 18-Feb-10	Batch 28 TK NC	0.3	<0.2	<0.2	<0.9	<0.2	<0.2	<0.2	<0.2	0.3
8020866 1003434 1003435 1003436	22-Feb-10	Batch 30 Tank ND 0500	<0.2	<0.2	<0.2	<0.9	<0.2	<0.2	<0.2	<0.2	0.0
1003665 8031982 1005368 1003366	17-Mar-10	Batch 33 Tank ND	<0.2	<0.2	<0.2	<0.9	<0.2	<0.2	<0.2	<0.2	0.0
1005519	19-Mar-10	Batch 31 Tank ND 05:00									
1005372 8034223 1013128	23-Mar-10 25-Mar-10	Batch 32 TK NA 0500									
1015103 1007058	7-Apr-10 9-Apr-10	Batch 32 Tank NB									
1016037	12-Apr-10	Batch 32 TK NB 04/12/10 @1500	ND (0.05)	ND (0.01)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.4
1006158 1006160 1006159	29-Mar-10	Batch 33 Tank NB									
1006343 1015104 8040942	1-Apr-10 7-Apr-10	Batch 33 Tank NA	<0.2	<0.2	<0.2	<0.9	<0.2	<0.2	<0.2	<0.2	<3.4
1006182 1006183 1006184	29-Mar-10	Batch 34 TK NC	2	3.9	0.2	<0.9	<0.2	<0.2	<0.2	<0.2	10
1015004 8039637 1015004 8039637	2-Apr-10	Batch 34 Tank NC 05:00 Batch 34 Vanson Truck 05:00									
1015060	6-Apr-10	Batch 35 Tank ND 0500	0.12	0.07	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.4
8040952 1006805	7-Apr-10	Batch 35 TANK ND									
1015209	9-Apr-10	Batch 35 TK ND									

Exceeds ROPEC Discharge Limit

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	Phenanthrene (ug/L)	Pyrene (ug/L)	Benzo [e] pyrene (ug/L)	Benzo [f] fluoranthene (ug/L)	7H- Dibenzo [c,g] parylene (ug/L)	Dibenz [a,j] acridine (ug/L)	Dibenzo [a,i] pyrene (ug/L)	Perylene (ug/L)	PAHs (ug/L)
Detection Limit			5	1	0.5	0.5	0.5	0.5	0.5	5	15
ROPEC Discharge Limit											
B040388 1015085	6-Apr-10 6-Apr-10	Batch 36 TANK NC									
1016074 1007974	14-Apr-10 16-Apr-10	Batch 36 TK NC 0415									
1015213 1016169 B042247 1015214 1007059	9-Apr-10	Batch 37 TK NA	0.26	0.13	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.4
1016110 B044328 1016072 1007622	15-Apr-10 14-Apr-10	Batch 37 Tank NA 0500 Batch 38 TK NB 0415	13.2	16.7	6.8	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	4.5	21
1016111 1017003	15-Apr-10 19-Apr-10	Batch 38 Tank NB 0500 Batch 38 TK ND 0530	0.87	0.12	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.4
1017006 B046389 1008016 1017094	19-Apr-10 19-Apr-10 21-Apr-10	Batch 39 TK NC 05:30 Batch 39 TK NC Batch 39 TK NC 05:00	1.1	0.17	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.4
B046323 1017005 1008015 1017093	19-Apr-10 21-Apr-10	BATCH 40 TANK NB 07:00 Batch 40 TK NB 05:00	0.22	0.12	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.4
1017095 1008328 B048023 1018052	20-Apr-10 27-Apr-10	Batch 41 TK NA 1415 #1 Batch 41 TK NA 1415 Batch 41 Tank NA 05:00	0.27	0.11	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.4
1009140 B052712 1018188 1009417	30-Apr-10 29-Apr-10 4-May-10	Batch 42 Tank NA 0500	0.4	0.13	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1
B053472 1009291 1009806	3-May-10 6-May-10	Batch 43 Tank NB 0500									
B056798 1009959 1019219	7-May-10	Batch 43 Tank NC 14:25	ND (0.05)	0.03	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0
1020001 B057205 1010014	10-May-10	Batch 45 Tank NA									
1021088 1021089 B062284	18-May-10	Batch 46 Tank NA 11:00	0.52	0.18	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1
1022011 B065241	25-May-10	Batch 47 Tank NB 05:00	0.41	0.33	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2
1022011 B065241	25-May-10	Batch 48 Tank NB 05:00	0.34	0.1	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1
1022157 B067453	28-May-10	Batch 49 Tank NA	0.82	0.75	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	3
B075971 1025016 1025018	14-Jun-10	Batch 50 TK NA 0515	0.4	0.22	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1
1026012 1026014 B078892	21-Jun-10	Batch 51 Tank NA 0500	1.33	0.73	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	3
1026010 B078863	21-Jun-10	Batch 52 Tank NB 0500									
B081319 1026110 1026111 1026112	23-Jun-10	Batch 53 Tank NC	ND (0.05)	ND (0.01)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0
1027007 B083825	28-Jun-10	Batch 54 Tank ND 05:00									
1027009 1027011 B083793	28-Jun-10	Batch 55 Tank NA 05:00	5.7	2.47	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	11.5
1027101 B084557	29-Jun-10	Batch 56 TKNB 1100									
1027166 B085689	30-Jun-10	Batch 57 Tank NC 14:00									
1028046 1028044 1028045 B087409	06-Jul-10	Batch 58 TK NA 0600	0.53	0.23	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.4
1028164 B089585	08-Jul-10	Batch 59 Tank NB 15:15									
1029009 1029011 1029010 B090897	12-Jul-10	Batch 60 Tank NC	ND (0.05)	ND (0.01)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.4
1029114 B092722	14-Jul-10	Batch 61 Tank NA									
1031019 1031020 B099095	24-Jul-10	Batch 62 Tank NA - 03:00	0.76	0.30	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	< 3.4
Exceeds ROPEC Discharge Limit											

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	Phenanthrene (µg/L)	Pyrene (µg/L)	Benzo [e] pyrene (µg/L)	Benzo [f] fluoranthene (µg/L)	7H- Dibenzo [c,g] fluoranthene (µg/L)	Dibenz [a,j] acridine (µg/L)	Dibenzo [a,i] pyrene (µg/L)	Perylene (µg/L)	PAHs (µg/L)
Detection Limit			5	1	0.5	0.5	0.5	0.5	0.5	5	15
ROPEC Discharge Limit											
1031139 BOA0824	27-Jul-10	Batch 63 Tank NB - 23:30	0.3	0.24	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.4
1032002 1032014 BOA3299	30-Jul-10	Batch 64 Tank NA - 3:00	2.03	2.44	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	9.87
1032003 1032014 BOA3338	31-Jul-10	Batch 65 Tank NC - 22:30	1.55	2.65	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	9.15
1033004 1033003 1033110 BOA8930	08-Aug-10 11-Aug-10 12-Aug-10	Batch 66 Tank NA	3.07	0.83	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	4.96
1033178 BOA8930	12-Aug-10	Batch 67 TKNB 2:00	3.1	0.28	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	4.52
1034003 1034068 1034068	16-Aug-10 17-Aug-10	Batch 68 Tank NC	0.26	0.44	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.40
1034035 1034037 1035156 1034180	16-Aug-10 25-Aug-10 19-Aug-10	Batch 69 TK ND 11:50	ND (0.05)	ND (0.01)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.40
1042054 1042055 BO3E3801	12-Oct-10	TKNC Batch 70 1445	0.48	0.48	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.40
1042100 BOE4430	13-Oct-10	Batch 71 Tank ND 13:00									
1042233 1043001	15-Oct-10 16-Oct-10	Batch 72 Tank NA 15:25 Batch 73 Tank NC 3:00									
1043060 BOE7497	18-Oct-10	Batch 74 Tank NB 22:30									
1043114	20-Oct-10	Batch 75 Tank ND 06:00									
1043172	21-Oct-10	Batch 76 Tank NA 08:50									
1044004	24-Oct-10	Batch 77 Tank NB 01:00									
1044223	28-Oct-10	Batch 78 Tank NC 02:00									
1045002	30-Oct-10	Batch 79 Tank ND 08:00									
1045006											
1045015 BOF5240	01-Nov-10	Batch 80 TK NA 03:30	0.44	0.27	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(3.40)
1045061	02-Nov-10	Batch 81 Tank NB 04:15									
1045115	03-Nov-10	Batch 82 Tank NC 02:15									
1045155	04-Nov-10	Batch 82 Tank NA									
1045212	04-Nov-10	Batch 83 Tank ND 21:30									
1045213	05-Nov-10	Batch 84 Tank NC 06:00									
1046001 1046002 BOF9570	06-Nov-10	Batch 85 Tank NA 23:55	10.1	2.90	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	16.4
1049218	06-Nov-10		10.1	2.92							16.9
1046040	09-Nov-10	Batch 86 Tank NB 05:00									
1046078	10-Nov-10	Batch 87 Tank ND 05:00									
1046079	10-Nov-10	Batch 88 Tank NC 05:00									
1046208	12-Nov-10	Batch 89 Tank NA 05:30									
BOG3490 1047006	15-Nov-10	BATCH 90 TANK ND 05:00	1.41	0.48	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2.7
1047005	15-Nov-10	Batch 91 Tank NC 05:00									
1047056	15-Nov-10	Batch 92 Tank NB 21:00									
1047099	17-Nov-10	Batch 93 Tank NA 5:00									
1047147	18-Nov-10	Batch 94 Tank ND 05:00									
1047204 1048051 1048064	19-Nov-10 23-Nov-10 24-Nov-10	Batch 95 Tank NC 0840 Batch 95 Tank Nd 07:00 Batch 95 TK ND 05:30	0.3 0.56	0.2 0.46	ND (0.5) ND (0.5)	ND (0.5) ND (0.5)	ND (0.5) ND (0.5)	ND (0.5) ND (0.5)	ND (0.5) ND (0.5)	ND (0.5) ND (0.5)	0.7 1.4
1048002 BOG8256 1048004 1048083	22-Nov-10 24-Nov-10	Batch 96 Tank NB 05:00 Batch 96 TK NA 05:30									
1048118	25-Nov-10	Batch 97 Tank NB 0500									
1049001 1049002	29-Nov-10	Batch 98 TK NC 05:00	0.3	0.29	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1.3
1049227											
1049228 1029452 1050001	02-Dec-10 05-Dec-10	Batch 99 Tank NA 0515 Batch 99 Tank NA Batch 99 Tank NC 2115	0.36	0.3	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1.7
1050001 1050002 1050136 1050098 1050176	05-Dec-10 06-Dec-10 08-Dec-10 08-Dec-10 09-Dec-10 10-Dec-10	Batch 100 Tank NB 2115 Batch 100 Tank NB 4:45 Batch 100 Tank NB 19:40 Batch 100 Tank NB Batch 100 Tank NB Batch 100 Tank NG 6:25	0.4	0.27	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.4
1050002 1050098 1050177	05-Dec-10 06-Dec-10 10-Dec-10	Batch 101 Tank ND 4:00 Batch 101 Tank ND 21:15 Batch 101 Tank ND	0.74	0.53	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.4
1050137 1050178	08-Dec-10 09-Dec-10 09-Dec-10 10-Dec-10	Batch 103 Tank NC 19:40 Batch 103 Tank NC 04:45 Batch 103 Tank NC Batch 103 Tank NC 4:45	0.13	0.03	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.4
Exceeds ROPEC Discharge Limit											

TABLE AII-1 Process Effluent Sample Results for Shipments to ROPEC

Lab ID	Sampling Date	Sample ID	Phenanthrene	Pyrene	Benzo [e] pyrene	Benzo [f] fluoranthene	7H-Dibenzo [c,g] perylene	Dibenz [a,j] acridine	Dibenzo [a,i] pyrene	Perylene	PAHs
			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Detection Limit			5	5	0.5	0.5	0.5	0.5	0.5	5	15
ROPEC Discharge Limit											
1030229	13-Dec-10	Batch 104 Tank NA 05:00									
1051005		Batch 104 Tank NA 05:00	0.2	0.21	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.4
1051003	13-Dec-10	Batch 105 Tank ND 05:00	0.17	0.14	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.4
1051072	13-Dec-10	Batch 105 Tank ND 05:00(Spiked)									
1051002	13-Dec-10	Batch 106 Tank NB 05:00	0.34	0.32	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.4
1051148	16-Dec-10	Batch 107 Tank NA 07:00	0.16	0.15	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.4
1030509	16-Dec-10	Batch 107 Tank NA 07:00									
1051188	16-Dec-10	Batch 108 Tank NB 22:35	0.21	0.21	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.4
1052001	20-Dec-10	Batch 109 Tank ND 07:20	0.3	0.11	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	<3.4
1065461	21-Dec-10	Batch 109 Tank ND - 17:15									
1065461	21-Dec-10	Batch 110 Tank NC - 17:15									
1052047	21-Dec-10	Batch 110 Tank NC 05:00	0.18	0.22	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.6
1031005	22-Dec-10	Batch 111 Tank NA									
1052111	22-Dec-10	Batch 111 Tank NA	ND (0.05)	0.05	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)		0.1

Exceeds ROPEC Discharge Limit

TABLE AII-3 Baghouse Ash TCLP - Analyses Results

Schedule 4 Contaminants	Units	Detection Limit	Lab ID	7390039-03	7390039-04	7460036-01	7340151-02	7340151-04	7350084-39	7350084-40	0808066-01	0808066-02	0809094-01	0851148-01	0851148-02	Baghouse Ash	(ST1)1/2 Baghouse	(ST1)2/2 Baghouse	Paracel:0950143	Paracel:0950143	Paracel:0950144	Paracel:0950145	Paracel: 1032060	Paracel: 1046226	Paracel: 1049236		
			Plasco ID	Baghouse Ash	Baghouse Ash	Baghouse Ash	Baghouse Ash	Ash from Baghouse	Ash from Baghouse	ST-1 Baghouse	ST-2 Baghouse	ST-1 Baghouse	ST1 Baghouse Ash	ST1 Baghouse Ash 10AM	ST2 Baghouse Ash 10AM		2-Apr-09	June 17 2009	June 17 2009	ST1	ST2	ST1	ST2	ST-1	ST-1	ST-1	
			Concentration Limit	20-Sep-07	20-Sep-07	23-Sep-07	27-Jul-07	9-Aug-07	23-Aug-08	23-Aug-08	15-Feb-08	15-Feb-08	27-Feb-08	04-Dec-08	04-Dec-08				10-Dec-09	10-Dec-09	31-Mar-10	31-Mar-10	28-Jul-10	11-Nov-10	11-Nov-10		
Decachlorobiphenyl																									0.0127		
4-Bromofluorobenzene																										0.0756	
Dibromofluoromethan																										0.0885	
Toluene-d8																										0.0756	
BOLD	Exceeds maximum allowable concentration limit																										
ND	Not detected																										
*	TCLP for Metals only was repeated for Sample due to laboratory error (Converter ash results reported for Baghouse Ash under Lab ID 1046226)																										

TABLE AII-4

Slag TCLP - Analyses Results

Schedule 4 Contaminants	Units	Detection Limit	Lab ID	7500041-01	7500041-02	0806122-01	842016	Slag SC-1 15-Jul-09	Slag SC-2 16-Jul-09	Slag SC-1 14-Dec-09	Slag SC-2 14-Dec-09	Slag SC-1 28-Jul-10	Slag SC-1 11-Nov-10
			Plasco ID	Sample #1 Varying Conditions	Sample #2 High T	Slag from MSW	SC1						
			Concentration Limit	10-Dec-07	10-Dec-07	06-Feb-08	5-Oct-08						
Arsenic	mg/L	0.05	2.5	0.05	0.05	0.05	<0.05	0.05	0.05	0.05	0.05	ND (0.05)	ND (0.05)
Barium	mg/L	0.05	100	0.24	0.16	0.16	<0.05	0.35	0.19	0.25	0.26	0.33	0.27
Boron	mg/L	0.05	500	0.05	<0.05	0.06	<0.05	0.05	0.05	0.05	0.05	ND (0.05)	0.07
Cadmium	mg/L	0.01	0.5	0.01	0.01	0.01	<0.01	0.01	0.01	0.01	0.01	ND (0.01)	ND (0.01)
Chromium	mg/L	0.05	5	4.69	0.08	<0.05	0.87	0.26	0.16	0.26	0.28	ND (0.05)	0.06
Cyanide, free	mg/L	0.002	20	0.002	0.002	0.002	<0.002	0.002	0.002			ND (0.002)	ND (0.002)
Fluoride	mg/L	0.05	150	0.05	0.05	0.05	<0.05	0.05	0.05			0.05	0.07
Initial pH	pH Units			9.08	5.37	4.43	5.94	4.17	4.83	8.92	4.1	6.66	6.51
Final pH	pH Units			4.9	4.86	5.02	4.96	4.87	4.82	5.04	5.02	4.96	4.96
PCB's, total												ND (0.003)	
Decachlorobiphenyl												0.0112	0.0112
Lead	mg/L	0.05	5	0.05	0.05	0.05	0.39	0.25	0.11	1.20	0.73	ND (0.05)	0.27
Mercury	mg/L	0.005	0.1	0.005	0.005	0.005	<0.005	0.005	0.005	0.005	0.005	ND (0.005)	ND (0.005)
Nitrate as N	mg/L	1	1000	1	1	1	<1	1	1			ND (1)	ND (1)
Nitrite as N	mg/L	1		1	1	1	<1	1	1			ND (1)	ND (1)
Selenium	mg/L	0.05	1	0.05	0.05	0.05	<0.05	0.05	0.05	0.05	0.05	ND (0.05)	ND (0.05)
Silver	mg/L	0.05	5	0.05	0.05	0.05	<0.05	0.05	0.05	0.05	0.05	ND (0.05)	ND (0.05)
Uranium	mg/L	0.05	10	0.05	0.05	0.05	<0.05	0.05	0.05	0.05	0.05	ND (0.05)	ND (0.05)
1,1-Dichloroethylene	mg/L	0.0006	1.4	0.0006	0.0006	0.0006				0.0006	0.0006	ND (0.0006)	ND (0.0006)
1,2-Dichlorobenzene	mg/L	0.0004	20	0.0004	0.0004	0.0004				0.0004	0.0004	ND (0.0004)	ND (0.0004)
1,2-Dichloroethane	mg/L	0.0005	0.5	0.0005	0.0005	0.0005				0.0005	0.0005	ND (0.0005)	ND (0.0005)
1,4-Dichlorobenzene	mg/L	0.0004	0.5	0.0004	0.0004	0.0004				0.0004	0.0004	ND (0.0004)	ND (0.0004)
Benzene	mg/L	0.0005	0.5	0.0005	0.0005	0.0005				0.0005	0.0005	ND (0.0005)	ND (0.0005)
Benzo[a]pyrene	mg/L	0.0001	0.001	0.0001	0.0001	0.0009		0.0001	0.0001	<0.01	<0.01	ND (0.0001)	ND (0.0001)
Carbon Tetrachloride	mg/L	0.0005	0.5	0.0005	0.0005	0.0005				0.0005	0.0005	ND (0.0005)	ND (0.0005)
Chlorobenzene	mg/L	0.0004	8	0.0004	0.0004	0.0004				0.0004	0.0004	ND (0.0004)	ND (0.0004)
Chloroform	mg/L	0.0006	10	0.0006	0.0006	0.0006				0.0006	0.0006	ND (0.0006)	ND (0.0006)
Methyl Ethyl Ketone (2-Butanone)	mg/L	0.03	200	0.03	0.03	0.03				0.03	0.03	ND (0.03)	ND (0.03)
Methylene Chloride	mg/L	0.004	5	0.004	0.004	0.004				0.004	0.004	ND (0.004)	ND (0.004)
Tetrachloroethylene	mg/L	0.0005	3	0.0005	0.0005	0.0005				0.0005	0.0005	ND (0.0005)	ND (0.0005)
Trichloroethylene	mg/L	0.0004	5	0.0004	0.0004	0.0004				0.0004	0.0004	ND (0.0004)	ND (0.0004)
Vinyl chloride	mg/L	0.0005	0.2	0.0005	0.0005	0.0005				0.0005	0.0005	ND (0.0005)	ND (0.0005)
% Solids	% by Wt.	0.1		100	100	100				100	100		100
2,3,4,6 Tetrachlorophenol	ug/L	2	10000			2				2	2		
2,4,5 Trichlorophenol	ug/L	1	400000			1				1	1		
2,4,6 Trichlorophenol	ug/L	1	500			1				1	1		
2,4 Dichlorophenol	ug/L	0.9	90000			0.9				0.9	0.9		
2,4 dinitrotoluene	ug/L	0.3	130			0.3				0.3	0.3		
2-methylphenol	ug/L	0.4	200000			0.4				0.4	0.4		
3-&4-methylphenol	ug/L	0.3	200000			0.3				0.3	0.3		
4-Bromofluorobenzene												0.0776	
Dibromofluoromethan												0.0855	
Toluene-d8												0.0746	
Nitrobenzene	ug/L	0.2	2000			0.2				0.2	0.2		
Pentachlorophenol	ug/L	0.4	6000			0.4				0.4	0.4		
TPH (diesel)												ND (10)	ND (10)
TPH (gasoline)												ND (10)	ND (10)
TPH (heavy oil)												ND (50)	ND (50)

TABLE AII-5 Carbon Bed TCLP - Analyses Results

Schedule 4 Contaminants	Units	Detection Limit	Lab ID Plasco ID Concentration Limit	0809030-11 Carbon Bed 25-Feb-08
Arsenic	mg/L	0.05	2.5	<0.05
Barium	mg/L	0.05	100	0.06
Boron	mg/L	0.05	500	0.12
Cadmium	mg/L	0.01	0.5	0.02
Chromium	mg/L	0.05	5	<0.05
Final pH	pH Units			5.37
Initial pH	pH Units			4.85
Lead	mg/L	0.05	5	0.22
Mercury	mg/L	0.005	0.1	<0.005
Selenium	mg/L	0.05	1	<0.05
Silver	mg/L	0.05	5	<0.05
Uranium	mg/L	0.05	10	<0.05
Benzo[a]pyrene	mg/L	0.0001	0.001	<0.0001
% Solids	% by Wt.	0.1		80.5



APPENDIX III
Plasco Trail Road Offsite Waste Shipment Summary

TABLE AIII-1 Offsite Waste Shipment Summary

Waste Description	Waste Class	Physical state	Units	August 2010	September 2010	October 2010	November 2010	December 2010	January 2011	TOTAL
Site Waste	-	Solid	(tonne)	8.03	10.69	12.59	6.39	0.67	295.35	333.72
Converter Ash	-	Solid	(tonne)	26.41	0.00	99.47	383.82	91.62	0.00	601.32
Slag	-	Solid	(tonne)	18.85	0.00	0.00	0.00	46.65	0.00	65.50
Acid Waste - Heavy Metals	112-C	Liquid	(m3)	0.00	0.00	0.00	0.00	0.00	0.21	0.21
	112-C	Solid	(tonne)	0.00	0.00	0.00	0.72	0.00	0.00	0.72
Acid Wastes - Other Inorganic	114-L	Liquid	(m3)	1.55	0.00	3.41	3.25	4.05	3,250.00	3,262.26
Alkaline Waste - Other Metals	122-C	Liquid	(m3)	0.00	0.00	0.00	0.00	0.00	1.03	1.03
	122-C	Solid	(tonne)	0.00	0.35	0.00	0.00	0.00	0.14	0.49
Brines, Chlor-Alkali Wastes (incl. Baghouse Ash)	133-L	Liquid	(m3)	490.00	0.00	560.00	1,400.00	752.00	126,000.00	129,202.00
	133-T	Liquid	(m3)	29.29	17.03	18.38	34.87	76.11	183.20	358.88
	133-T	Solid	(tonne)	22.23	4.91	14.71	1.72	84.09	57.51	185.17
Reactive Anion Wastes	135-C	Liquid	(m3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	135-I	Solid	(tonne)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paint/Pigment/Coating Residues	145-R	Liquid	(m3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	145-I	Liquid	(m3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Specified Inorganics	146-L	Liquid	(m3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	146-T	Solid	(tonne)	0.00	0.00	0.00	6.30	0.00	0.60	6.90
Inorganic Laboratory Chemicals	148-C	Solid	(tonne)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aromatic Solvents	211-H	Solid	(tonne)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aliphatic Solvents	212-H	Liquid	(m3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	212-L	Liquid	(m3)	0.00	0.00	0.00	0.00	0.00	2.26	2.26
Petroleum Distillates	213-I	Liquid	(m3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	213-H	Solid	(tonne)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste Oils & Lubricants	252-L	Liquid	(m3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Organic Laboratory Chemicals	263-C	Liquid	(m3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Site Waste, Converter Ash & Slag are sent to Trail Road Landfill Facility for disposal.
All other wastes are disposed of as hazardous waste.

TABLE AIII-2 Offsite Waste Shipment Summary

Waste Description	Waste Class	Physical state	Units	February 2008	March 2008	April 2008	May 2008	June 2008	July 2008	August 2008	September 2008	October 2008	November 2008	December 2008	January 2009	February 2009	March 2009	April 2009	May 2009	June 2009	July 2009	August 09	September 09	October 09
Site Waste	-	Solid	(tonne)	no data	no data	no data	no data	no data	no data	31.82	4.02	22.76	2.31	3.05	35.06	9.09	10.19	9.25	4.34	0.00	1.90	23.55	5.44	2.98
Converter Ash	-	Solid	(tonne)	45.10	0.00	49.46	42.81	93.10	49.26	0.00	24.06	30.06	33.44	48.00	41.61	108.59	116.25	248.29	117.03	117.05	91.31	97.52	50.60	107.23
Slag	-	Solid	(tonne)	0.00	9.31	26.26	0.00	0.00	11.52	0.00	6.02	5.51	19.70	20.41	13.03	0.00	0.00	0.00	0.00	0.00	5.52	0.00	18.15	5.86
Acid Waste - Heavy Metals	112-C	Liquid	(m ³)	0.00	0.00	0.00	31.20	0.00	5.80	0.00	0.00	0.20	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	112-C	Solid	(tonne)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.82	0.50	0.40	1.73	0.40	0.00	2.20	0.00	0.00	1.00	0.00
Acid Wastes - Other Inorganic	114-L	Liquid	(m ³)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	121-C	Liquid	(m ³)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.80	0.00	0.00
Alkaline Waste - Other Metals	122-C	Liquid	(m ³)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	122-C	Solid	(tonne)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.02	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Brines, Chlor-Alkali Wastes (incl. Baghouse Ash)	133-L	Liquid	(m ³)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00	643.70	939.00	506.00	580.00	691.95
	133-T	Liquid	(m ³)	0.00	136.40	0.00	665.44	949.27	630.75	155.90	479.49	828.95	570.12	893.48	1,131.90	903.83	971.64	1,182.94	215.72	13.60	87.61	41.63	22.50	27.00
	133-T	Solid	(tonne)	0.00	0.00	789.02	0.00	0.00	0.00	0.50	0.30	32.20	10.00	30.00	20.65	10.00	11.95	10.40	20.00	13.10	0.00	52.79	7.49	10.75
Reactive Anion Wastes	135-C	Liquid	(m ³)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	135-I	Solid	(tonne)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00
Paint/Pigment/Coating Residues	145-R	Liquid	(m ³)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
	145-I	Liquid	(m ³)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Specified Inorganics	146-L	Liquid	(m ³)	796.03	70.70	0.00	0.00	0.00	105.00	0.00	8.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	146-T	Solid	(tonne)	9.02	0.62	0.00	10.61	71.12	10.04	20.00	0.00	0.00	6.00	4.50	0.50	0.00	5.60	3.20	0.00	0.00	0.00	0.00	0.80	0.00
Inorganic Laboratory Chemicals	148-C	Solid	(tonne)	0.00	0.00	8.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aromatic Solvents	211-H	Solid	(tonne)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aliphatic Solvents	212-H	Liquid	(m ³)	0.00	0.62	0.00	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	212-L	Liquid	(m ³)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00
Petroleum Distillates	213-I	Liquid	(m ³)	0.00	0.11	0.07	0.11	0.05	0.07	0.00	0.00	0.17	0.35	0.00	0.00	0.07	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00
	213-H	Solid	(tonne)	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste Oils & Lubricants	252-L	Liquid	(m ³)	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.21	0.00
Organic Laboratory Chemicals	263-C	Liquid	(m ³)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Site Waste, Converter Ash & Slag are sent to Trail Road Landfill Facility for disposal.
 Site Waste was not separately identified prior to August 2008.
 All other wastes are disposed of as hazardous waste.

TABLE AIII-2 Offsite Waste Shipment Summary

Waste Description	Waste Class	Physical state	Units	November 09	December 09	January 10	February 2010	March 2010	April 2010	May 2010	June 2010	July 2010	August 2010	September 2010	October 2010	November 2010	December 2010	January 2011	TOTAL
Site Waste	-	Solid	(tonne)	11.60	2.66	3.63	1.39	5.68	1.52	4.29	2.46	2.37	8.03	10.69	12.59	6.39	0.67	295.35	535.08
Converter Ash	-	Solid	(tonne)	33.42	13.85	16.69	28.62	11.07	37.92	22.95	42.55	28.71	26.41	0.00	99.47	383.82	91.62	0.00	2347.87
Slag	-	Solid	(tonne)	31.29	14.28	4.32	31.25	12.04	26.01	27.51	0.00	19.68	18.85	0.00	0.00	0.00	46.65	0.00	373.17
Acid Waste - Heavy Metals	112-C	Liquid	(m ³)	6.17	5.50	0.00	0.00	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.21	50.62
	112-C	Solid	(tonne)	0.80	0.30	0.00	0.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	10.47
Acid Wastes - Other Inorganic	114-L	Liquid	(m ³)	0.00	0.00	8.29	5.42	0.00	2.00	0.00	0.00	2.24	1.55	0.00	0.00	0.00	0.00	0.00	19.50
	121-C	Liquid	(m ³)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.80
Alkaline Waste - Other Metals	122-C	Liquid	(m ³)	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	2.57
	122-C	Solid	(tonne)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.14	0.71
Brines, Chlor-Alkali Wastes (incl. Baghouse Ash)	133-L	Liquid	(m ³)	490.00	350.00	280.00	867.00	70.00	706.00	490.00	350.00	636.00	490.00	0.00	560.00	1,120.00	682.00	126,000.00	136,651.65
	133-T	Liquid	(m ³)	71.55	4.53	14.00	21.00	105.55	14.80	17.37	17.76	24.15	29.29	17.03	18.38	35.92	76.11	201.46	11,366.07
	133-T	Solid	(tonne)	20.48	0.15	7.59	0.00	8.83	0.00	9.35	67.07	6.50	22.32	4.91	14.72	0.00	51.34	71.64	515.03
Reactive Anion Wastes	135-C	Liquid	(m ³)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	135-I	Solid	(tonne)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
Paint/Pigment/Coating Residues	145-R	Liquid	(m ³)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30
	145-I	Liquid	(m ³)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Other Specified Inorganics	146-L	Liquid	(m ³)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	999.73
	146-T	Solid	(tonne)	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.30	0.60	158.07
Inorganic Laboratory Chemicals	148-C	Solid	(tonne)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
Aromatic Solvents	211-H	Solid	(tonne)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
Aliphatic Solvents	212-H	Liquid	(m ³)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.26
	212-L	Liquid	(m ³)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.26	4.26
Petroleum Distillates	213-I	Liquid	(m ³)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.13
	213-H	Solid	(tonne)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.67
Waste Oils & Lubricants	252-L	Liquid	(m ³)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	20.99
Organic Laboratory Chemicals	263-C	Liquid	(m ³)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Site Waste, Converter Ash & Slag are sent to Trail Road Landfill Facility for disposal.
 Site Waste was not separately identified prior to August 2008.
 All other wastes are disposed of as hazardous waste.



APPENDIX IV
Plasco Trail Road Weekly CEMS Results Summary

TABLE AIV-1 Weekly CEMS Results Summary

Source Rolling Average Contaminant	FLARE					ENGINE				
	24-HOUR				MAX 10-MIN	24-HOUR				MAX 10-MIN
	NOX (ppmvd)	HCl (ppmvd)	SO2 (ppmvd)	TOC (ppmvd)	TOC (ppmvd)	NOX (ppmvd)	HCl (ppmvd)	SO2 (ppmvd)	TOC (ppmvd)	TOC (ppmvd)
Operational Limit		13	14		75		13	14		200
Maximum Limit	110	18	21		100	110	18	21		225
August 2 - August 8, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
August 9 - August 15, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
August 16 - August 22, 2010	92.21	0.51	5.79	4.46	58.25	nc	nc	nc	nc	nc
August 23 - August 29, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
August 30 - September 5, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
September 6 - September 12, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
September 13 - September 19, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
September 20 - September 26, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
September 27 - October 3, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
October 4 - October 10, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
October 11 - October 17, 2010	83.77	0.06	6.63	0.60	73.44	nc	nc	nc	nc	nc
October 18 - October 24, 2010	75.11	0.43	12.55	3.96	100.56	nc	nc	nc	nc	nc
October 25 - October 31, 2010	59.94	0.04	9.14	2.03	14.33	nc	nc	nc	nc	nc
November 1 - November 7, 2010	94.81	0.86	7.24	1.33	13.03	nc	nc	nc	nc	nc
November 8 - November 14, 2010	89.90	0.22	8.67	0.89	18.57	na	8.87	nc	166.67	101.73
November 15 - November 21, 2010	79.12	0.05	8.43	0.74	1.86	na	nc	nc	nc	nc
November 22 - November 28, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
November 29 - December 5, 2010	106.19	0.08	9.95	23.33	49.46	nc	nc	nc	nc	nc
December 6 - December 12, 2010	72.35	0.40	7.51	no data	no data	nc	nc	nc	nc	nc
December 13 - December 19, 2010	84.72	0.02	6.94	no data	no data	nc	nc	nc	nc	nc
December 20 - December 26, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
December 27, 2010 - January 2, 2011	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
January 3 - January 9, 2011	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
January 10 - January 16, 2011	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
January 17 - January 23, 2011	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
January 24 - January 30, 2011	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc

Bold exceeds limit
na not applicable - less than 24-hrs of runtime following cessation of discharge (and clock reset).
nc no change to CEMS values - process not running
nr data not recorded
no data FID offsite for repair. Independent 3rd party CEMS used to monitor TOC emissions during source testing.

TABLE AIV-2 Weekly CEMS Results Summary

Source Rolling Average Contaminant	FLARE					ENGINE				
	24-HOUR				MAX 10-MIN	24-HOUR				MAX 10-MIN
	NOX (ppmvd)	HCl (ppmvd)	SO2 (ppmvd)	TOC (ppmvd)	TOC (ppmvd)	NOX (ppmvd)	HCl (ppmvd)	SO2 (ppmvd)	TOC (ppmvd)	TOC (ppmvd)
Operational Limit		13	14		75		13	14		200
Maximum Limit	110	18	21		100	110	18	21		225
January 24 - January 31, 2008	28	0.2	11	3.3	nr	na	na	na	na	nr
February 1 - February 7, 2008	53	0.13	6	6	nr	na	na	na	na	nr
February 8 - February 14, 2008	nc	nc	nc	nc	nr	na	na	na	na	nr
February 15 - February 21, 2008	50	0.2	8	8	nr	na	na	na	na	nr
February 22 - February 28, 2008	41	0.5	7	14	nr	na	na	na	na	nr
February 29 - March 6, 2008	nc	nc	nc	nc	nr	na	na	na	na	nr
March 7 - March 16, 2008	nc	nc	nc	nc	nr	na	na	na	na	nr
March 17 - March 23, 2008	38	0.5	8	16	nr	na	na	na	na	nr
March 24 - March 30, 2008	47	1	6	26	nr	na	na	na	na	nr
Mar 31-Apr 6, 2008	37	3	11	25	nr	na	na	na	na	nr
Apr 7-13, 2008	37.57	1.91	10.36	10.67	nr	na	na	na	na	nr
Apr 14-20, 2008	55.38	1.25	10.81	3.87	nr	na	na	na	na	nr
Apr 21-27, 2008	46.2	0.65	11.5	18.97	nr	na	na	na	na	nr
Apr 28-May 4, 2008	39.33	0.62	7.86	15.94	nr	na	na	na	na	nr
May 5-11, 2008	49.29	0.42	8.57	6.93	nr	na	na	na	na	nr
May 12-18, 2008	nc	nc	nc	nc	nr	na	na	na	na	nr
May 19-25, 2008	nc	nc	nc	nc	nr	na	na	na	na	nr
May 26-Jun 1, 2008	46.24	0.93	11.94	2.69	nr	na	na	na	na	nr
Jun 2-8, 2008	41.93	1.27	10.6	2.11	nr	na	na	na	na	nr
Jun 9-15, 2008	40.44	1.22	9.47	1.91	nr	na	na	na	na	nr
Jun 16-22, 2008	36.21	1.05	8.1	4.48	nr	na	na	na	na	nr
Jun 23-29, 2008	nc	nc	nc	nc	nr	na	na	na	na	nr
Jun 30-Jul 6, 2008	27.53	1.4	8.62	6	nr	na	na	na	na	nr
Jul 7-13, 2008	59.69	0.72	10.74	6.32	nr	na	na	na	na	nr
Jul 14-20, 2008	60.46	1.19	14.33	6.14	nr	na	na	na	na	nr
Jul 21-27, 2008	nc	nc	nc	nc	nr	na	na	na	na	nr
Jul 28-Aug 3, 2008	nc	nc	nc	nc	nr	na	na	na	na	nr
Aug 4-10, 2008	nc	nc	nc	nc	nr	na	na	na	na	nr
Aug 11-17, 2008	nc	nc	nc	nc	nr	na	na	na	na	nr
Aug 18-24, 2008	nc	nc	nc	nc	nr	na	na	na	na	nr
Aug 25-31, 2008	nc	nc	nc	nc	nr	na	na	na	na	nr
Sep 1-7, 2008	nc	nc	nc	nc	nr	na	na	na	na	nr
Sep 8-14, 2008	nc	nc	nc	nc	nr	na	na	na	na	nr
Sep 15-21, 2008	32.66	1.58	12.48	8.28	nr	na	na	na	na	nr
Sep 22-28, 2008	32.17	1.77	12.07	15.27	nr	na	na	na	na	nr
Sep 29-Oct 5, 2008	48.23	0.73	7.34	7.44	nr	na	na	na	na	nr
Oct 6-12, 2008	nc	nc	nc	nc	nr	na	na	na	na	nr
Oct 13-19, 2008	73.42	0.45	11.23	9.15	nr	na	na	na	na	nr
Oct 20-26, 2008	74.46	0.74	10.65	13.38	nr	na	na	na	na	nr
Oct 27-Nov 2, 2008	nc	nc	nc	nc	nr	na	na	na	na	nr
Nov 3-9, 2008	55.39	0.49	7.72	8.81	nr	na	na	na	na	nr
Nov 10-16, 2008	nc	nc	nc	nc	nr	na	na	na	na	nr
Nov 17-23, 2008	62.47	0.19	7.87	1.23	nr	na	na	na	na	nr
Nov 24-30, 2008	47.35	0.22	5.02	1.88	nr	na	na	na	na	nr
Dec 1-7, 2008	46.41	0.24	4.99	1.86	nr	na	na	na	na	nr
Dec 8-14, 2008	44.63	0.32	6.59	1.79	nr	na	na	na	na	nr
Dec 15-21, 2008	40.38	0.68	4.51	14.71	nr	na	na	na	na	nr
Dec 22-28, 2008	nc	nc	nc	nc	nr	na	na	na	na	nr
Dec 29, 2008-Jan 4, 2009	nc	nc	nc	nc	nr	na	na	na	na	nr
Jan 5-11, 2009	43.89	0.51	5.13	14.44	368.28	na	na	na	na	nr
Jan 12-18, 2009	51.32	0.32	7.82	1.35	27.56	na	na	na	na	nr
Jan 19-25, 2009	46.78	0.26	7.34	0.87	1.65	na	na	na	na	nr
Jan 26 - Feb 1, 2009	48.56	0.35	5.55	0.61	60.48	na	na	na	na	nc
Feb 2-8, 2009	47.9	0.37	5.71	0.6	0.91	na	na	na	na	nc
Feb 9-15, 2009	76.78	0.79	6.63	0.46	6.91	na	na	na	na	nc
Feb 16-22, 2009	72.84	0.77	0.48	0.63	59.41	na	na	na	na	nc
Feb 23-Mar 1, 2009	57.7	0.68	0.46	0.66	3.87	na	na	na	na	nc
Mar 2-8, 2009	57.4	0.72	3.84	0.8	27.17	na	na	na	na	nc
Mar 9-15, 2009	53.6	0.73	2.19	0.8	2.72	na	na	na	na	nc
Mar 16-22, 2009	50.4	0.87	2.03	5.41	472.94	na	na	na	na	nc
Mar 23-29, 2009	73.15	0.85	1.78	6.99	29.75	na	na	na	na	188.49

TABLE AIV-2 Weekly CEMS Results Summary

Source Rolling Average Contaminant	FLARE					ENGINE				
	24-HOUR				MAX 10-MIN	24-HOUR				MAX 10-MIN
	NOX (ppmvd)	HCl (ppmvd)	SO2 (ppmvd)	TOC (ppmvd)	TOC (ppmvd)	NOX (ppmvd)	HCl (ppmvd)	SO2 (ppmvd)	TOC (ppmvd)	TOC (ppmvd)
Operational Limit		13	14		75		13	14		200
Maximum Limit	110	18	21		100	110	18	21		225
Mar 30 - Apr 5, 2009	67.06	0.53	1.11	4.5	<u>196.99</u>	na	na	na	na	210.91
Apr 6-12, 2009	86.47	0.6	4.22	0.59	9.39	na	na	na	na	nc
Apr 13-19, 2009	nc	nc	nc	nc	nc	na	na	na	na	nc
Apr 20-26, 2009	86.19	0.87	4.16	1.03	<u>316.19</u>	na	na	na	na	nc
Apr 27-May 3, 2009	92.47	1.06	4.22	3.6	38.29	na	na	na	na	127.75
May 4-10, 2009	99.39	0.87	2.97	5.49	<u>206.25</u>	na	na	na	na	158.54
May 11-17, 2009	97.14	0.98	5.07	5.78	<u>149.92</u>	na	na	na	na	nc
May 18-24, 2009	nc	nc	nc	nc	nc	na	na	na	na	nc
May 25-31, 2009	100.23	1.27	7.86	14.01	<u>103.66</u>	na	na	na	na	162.55
Jun 1-7, 2009	101.23	0.71	7.48	na	12.45	na	na	na	na	nc
Jun 8-14, 2009	<u>110.8</u>	0.85	9.06	3.3	<u>109.05</u>	na	na	na	na	nc
Jun 15-21, 2009	nc	nc	nc	nc	nc	na	na	na	na	nc
Jun 22-28, 2009	103.8	0.9	5.73	3.34	18.74	na	na	na	na	nc
Jun 29 - Jul 5, 2009	nc	nc	nc	nc	nc	na	na	na	na	nc
Jul 6-12, 2009	92.11	1.42	5.98	7.53	<u>160.06</u>	na	5.03	10.31	130.34	182.74
Jul 13-19, 2009	89.48	1.79	4.56	1.68	15.34	na	nc	nc	nc	nc
Jul 20 - 26, 2009	100.74	2.57	6.87	14.67	<u>633.61</u>	na	5.67	11.01	131.7	174.39
Jul 27 - Aug 2, 2009	102.61	2.80	9.06	15.40	29.73	na	7.35	12.20	134.37	167.55
August 3 - 9, 2009	66.87	2.33	12.21	2.25	<u>286.62</u>	na	nc	nc	nc	na
August 10 - 16, 2009	70.74	3.16	13.47	2.66	19.29	na	7.47	12.61	134.71	139.26
August 17 - 23, 2009	69.62	2.42	na	2.84	28.96	na	8.60	13.83	135.40	152.00
August 24 - 30, 2009	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
Aug 31 - Sep 6, 2009	67.74	1.93	8.05	no data	no data	nc	nc	nc	nc	no data
September 7 - 13, 2009	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
September 14 - 20, 2009	75.55	0.87	10.44	2.91	50.36	nc	nc	nc	nc	135.83
September 21 - 27, 2009	79.40	0.80	8.75	7.42	52.18	<u>139.65</u>	9.10	na	147.57	167.28
Sep 28 - Oct 4, 2009	67.82	1.96	13.94	0.82	8.19	nc	nc	nc	nc	nc
October 5 - 11, 2009	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
October 12 - 18, 2009	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
October 19 - 25, 2009	72.49	0.28	4.02	1.20	12.09	nc	nc	nc	nc	nc
Oct 26 - Nov 1, 2009	73.69	0.17	3.86	0.66	14.31	nc	nc	nc	nc	162.7
November 2 - 8, 2009	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
November 9 - 15, 2009	87.23	0.64	9.01	2.63	17.64	nc	nc	nc	nc	141.87
November 16 - 22, 2009	61.06	0.54	10.06	0.43	69.41	na	9.26	na	144.59	131.08
November 23 - 29, 2009	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
Nov 30 - Dec 6, 2009	108.04	0.41	7.07	2.30	65.23	na	9.27	na	150.54	127.56
December 7 - 13, 2009	85.44	0.35	7.95	1.52	3.64	na	9.04	na	nr	125.02
December 14 - 20, 2009	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
December 21 - 27, 2009	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
Dec 28 - Jan 3, 2010	85.44	0.35	7.95	1.52	na	nc	nc	nc	nc	nc
January 4 - 10, 2010	95.01	0.33	7.57	0.36	20.62	na	8.79	na	114.07	152.28
January 11 - 17, 2010	87.66	0.41	8.11	8.72	58.28	na	8.44	na	152.95	156.85
January 18 - 24, 2010	90.32	0.36	5.79	0.88	42.20	nc	nc	nc	nc	nc
January 25 - 31, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
February 1 - 7, 2010	71.73	0.36	9.03	1.06	37.75	nc	nc	nc	nc	nc
February 8 - 14, 2010	54.85	0.52	6.01	6.16	37.51	nc	nc	nc	nc	nc
February 15 - 21, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
February 22 - 28, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
March 1 - 7, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
March 8 - 14, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
March 15 - 21, 2010	87.97	0.39	3.42	19.34	<u>226.49</u>	nc	nc	nc	nc	nc
March 22 - 28, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
March 29 - April 4, 2010	109.93	0.94	7.77	10.21	34.12	nc	nc	nc	nc	nc
April 5 - 11, 2010	90.01	0.57	6.52	5.21	29.54	nc	nc	nc	nc	nc
April 12 - 18, 2010	88.19	0.12	2.11	10.19	54.86	nc	nc	nc	nc	nc
April 19 - 25, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
April 26 - May 2, 2010	63.25	0.12	4.71	3.65	<u>138.19</u>	nc	nc	nc	nc	nc
May 3 - May 9, 2010	90.69	0.41	2.51	4.60	16.43	nc	nc	nc	nc	nc
May 10 - May 16, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
May 17 - May 23, 2010	81.51	0.17	2.36	2.82	24.38	nc	nc	nc	nc	nc
May 24 - May 30, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
May 31 - June 6, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc

TABLE AIV-2 Weekly CEMS Results Summary

Source Rolling Average Contaminant	FLARE					ENGINE				
	24-HOUR				MAX 10-MIN	24-HOUR				MAX 10-MIN
	NOX (ppmvd)	HCl (ppmvd)	SO2 (ppmvd)	TOC (ppmvd)	TOC (ppmvd)	NOX (ppmvd)	HCl (ppmvd)	SO2 (ppmvd)	TOC (ppmvd)	TOC (ppmvd)
Operational Limit		13	14		75		13	14		200
Maximum Limit	110	18	21		100	110	18	21		225
June 7 - June 13, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
June 14 - June 20, 2010	102.84	0.33	5.11	5.98	40.19	nc	nc	nc	nc	nc
June 21 - June 27, 2010	109.68	0.13	3.50	6.38	75.94	nc	nc	nc	nc	nc
June 28 - July 4, 2010	76.61	0.06	1.89	0.36	609.35	nc	nc	nc	nc	nc
July 5 - July 11, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
July 12 - July 18, 2010	71.77	0.20	4.60	0.51	12.78	nc	nc	nc	nc	nc
July 19 - July 25, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
July 26 - August 1, 2010	90.60	0.22	6.10	3.01	17.19	nc	nc	nc	nc	nc
August 2 - August 8, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
August 9 - August 15, 2010	92.21	0.51	5.79	4.46	58.25	nc	nc	nc	nc	nc
August 16 - August 22, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
August 23 - August 29, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
August 30 - September 5, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
September 6 - September 12, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
September 13 - September 19, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
September 20 - September 26, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
September 27 - October 3, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
October 4 - October 10, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
October 11 - October 17, 2010	83.77	0.06	6.63	0.60	73.44	nc	nc	nc	nc	nc
October 18 - October 24, 2010	72.11	0.43	12.55	3.96	100.56	nc	nc	nc	nc	nc
October 25 - October 31, 2010	59.94	0.04	9.14	2.03	14.33	nc	nc	nc	nc	nc
November 1 - November 7, 2010	94.81	0.86	7.24	1.33	13.03	nc	nc	nc	nc	nc
November 8 - November 14, 2010	89.90	0.22	8.67	0.89	18.57	na	8.87	na	166.67	101.73
November 15 - November 21, 2010	79.12	0.05	8.43	0.74	1.86	nc	nc	nc	nc	nc
November 22 - November 28, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
November 29 - December 5, 2010	106.19	0.08	9.95	23.33	49.46	nc	nc	nc	nc	nc
December 6 - December 12, 2010	72.35	0.40	7.51	no data	no data	nc	nc	nc	nc	nc
December 13 - December 19, 2010	84.72	0.02	6.94	no data	no data	nc	nc	nc	nc	nc
December 20 - December 26, 2010	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
December 27, 2010 - January 2, 2011	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
January 3 - January 9, 2011	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
January 10 - January 16, 2011	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
January 17 - January 23, 2011	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
January 24 - January 30, 2011	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc

Bold exceeds limit
na not applicable - less than 24-hrs of runtime following cessation of discharge (and clock reset).
nc no change to CEMS values - process not running
nr data not recorded
no data FID offsite for maintenance and repair.



APPENDIX V
Plasco Trail Road Flare and Engine Source Testing Summary Results

TABLE AV-1 OUTLET OF FLARE STACK - SCENARIO # 1
SUMMARY OF RESULTS OF ATMOSPHERIC EMISSIONS

PARAMETERS	UNITS	19-Nov-09	20-Nov-09	08-Dec-09	Average	CofA Limits	
		Test # 1	Test # 2	Test # 3		Operational	Maximum
CONCENTRATIONS							
Particulate Matter (PM)	mg/Rm ³	3.39	3.09	3.40	3.29	---	---
Hydrogen Chloride (HCl)	ppmv, dry	0.64	0.28	0.50	0.47	---	---
Cadmium (Cd)	µg/Rm ³	0.26 <	0.18 <	0.15 <	0.20	---	---
Lead (Pb)	µg/Rm ³	2.13	1.87	4.97	2.99	---	---
Mercury (Hg)	µg/Rm ³	0.31	0.38	0.20	0.30	---	---
Total PCDD / PCDF	pg/Rm ³ I-TEQ	25.4	15.9	4.7	15.3	---	---
Total PAH	µg/Rm ³	13.2	11.3	10.4	11.6	---	---
Formaldehyde	µg/Rm ³	< 21.1 <	< 35.9 <	< 62.5 <	< 39.8	---	---
Oxygen (O ₂)	% v/v, dry	11.87	11.09	11.31	11.42	---	---
Carbon Dioxide (CO ₂)	% v/v, dry	7.59	8.30	8.36	8.08	---	---
Carbon Monoxide (CO)	ppmv, dry	1.1	0.5	0.2	0.6	---	---
Sulphur Dioxide (SO ₂)	ppmv, dry	14.1	10.0	9.1	11.0	---	---
Nitrogen Oxides (as NO ₂)	ppmv, dry	54.4	61.9	89.0	68.4	---	---
Total Hydrocarbons (as CH ₄)	ppmv, dry	0.3	0.0	0.3	0.2	---	---
CONCENTRATIONS @ 11 % V/V O₂							
Particulate Matter (PM)	mg/Rm ³	3.72	3.12	3.50	3.45 <	12.0 <	17.0
Hydrogen Chloride (HCl)	ppmv, dry	0.70	0.28	0.52	0.50 <	13.0 <	18.0
Cadmium (Cd)	µg/Rm ³	0.28 <	0.18 <	0.15 <	0.21	---	< 14.0
Lead (Pb)	µg/Rm ³	2.33	1.89	5.13	3.12	---	< 142.0
Mercury (Hg)	µg/Rm ³	0.34	0.38	0.21	0.31	---	< 20.0
Total PCDD / PCDF	pg/Rm ³ I-TEQ	27.8	16.0	4.9	16.3 <	40.0 <	80.0
Total PAH	µg/Rm ³	14.5	11.4	10.8	12.2	---	---
Formaldehyde	µg/Rm ³	< 23.1 <	< 36.3 <	< 64.5 <	< 41.3	---	---
Carbon Monoxide (CO)	ppmv, dry	1.2	0.5	0.2	0.6	---	---
Sulphur Dioxide (SO ₂)	ppmv, dry	15.4	10.1	9.4	11.6 <	14.0 <	21.0
Nitrogen Oxides (as NO ₂)	ppmv, dry	59.6	62.4	91.9	71.3	---	< 110.0
Total Hydrocarbons (as CH ₄)	ppmv, dry	0.3	0.0	0.3	0.2 <	75.0 <	100.0
EMISSION RATES							
Particulate Matter (PM)	g/h	58.74	52.04	58.72	56.50	---	---
Hydrogen Chloride (HCl)	g/h	16.19	6.86	12.62	11.89	---	---
Cadmium (Cd)	mg/h	4.48 <	3.00 <	2.59 <	3.36	---	---
Lead (Pb)	mg/h	36.84	31.52	85.96	51.44	---	---
Mercury (Hg)	mg/h	5.33	6.35	3.52	5.07	---	---
Total PCDD / PCDF	ng/h I-TEQ	422.38	254.95	78.74	252.02	---	---
Total PAH	mg/h	220.10	181.36	172.77	191.41	---	---
Formaldehyde	g/h	< 0.36 <	< 0.59 <	< 1.06 <	< 0.67	---	---
Carbon Dioxide (CO ₂)	kg/h	2317	2453	2547	2439	---	---
Carbon Monoxide (CO)	g/h	21.4	9.4	3.9	11.5	---	---
Sulphur Dioxide (SO ₂)	g/h	625.7	429.1	402.0	485.6	---	---
Nitrogen Oxides (as NO ₂)	g/h	1736.1	1912.2	2834.4	2160.9	---	---
Total Hydrocarbons (as CH ₄)	g/h	3.7	0.5	3.1	2.4	---	---

R or "Reference conditions" are 25 °C, 101.3 kPa, dry basis.

TABLE AV-2 OUTLET OF FLARE STACK - SCENARIO # 2
SUMMARY OF RESULTS OF ATMOSPHERIC EMISSIONS

PARAMETERS	UNITS	09-Dec-09		08-Jan-10		20-Jan-10		Average	CofA Limits	
		Test # 1	Test # 2	Test # 3	Test # 4	Test # 5	Operational		Maximum	
CONCENTRATIONS										
Particulate Matter (PM)	mg/Rm ³	2.92	3.50	1.77	2.73	---	---			
Hydrogen Chloride (HCl)	ppmv, dry	0.26	0.31	0.42	0.33	---	---			
Cadmium (Cd)	µg/Rm ³	< 0.20	< 0.14	< 0.16	< 0.17	---	---			
Lead (Pb)	µg/Rm ³	1.46	2.13	1.75	1.78	---	---			
Mercury (Hg)	µg/Rm ³	0.15	0.40	0.48	0.34	---	---			
Total PCDD / PCDF	pg/Rm ³ I-TEQ	9.3	3.5	17.9	10.2	---	---			
Total PAH	µg/Rm ³	43.5	22.0	3.6	23.0	---	---			
Formaldehyde	µg/Rm ³	< 87.9	24.7	12.8	< 41.8	---	---			
Oxygen (O ₂)	% v/v, dry	11.24	10.57	10.63	10.81	---	---			
Carbon Dioxide (CO ₂)	% v/v, dry	7.51	8.65	8.62	8.26	---	---			
Carbon Monoxide (CO)	ppmv, dry	0.2	0.1	1.9	0.7	---	---			
Sulphur Dioxide (SO ₂)	ppmv, dry	8.0	12.1	4.0	8.0	---	---			
Nitrogen Oxides (as NO ₂)	ppmv, dry	94.1	102.4	93.2	96.6	---	---			
Total Hydrocarbons (as CH ₄)	ppmv, dry	0.0	0.2	0.2	0.2	---	---			
CONCENTRATIONS @ 11 % V/V O₂										
Particulate Matter (PM)	mg/Rm ³	2.99	3.36	1.70	2.68	<	12.0	<	17.0	
Hydrogen Chloride (HCl)	ppmv, dry	0.27	0.30	0.40	0.32	<	13.0	<	18.0	
Cadmium (Cd)	µg/Rm ³	< 0.20	< 0.13	< 0.16	< 0.16	---		<	14.0	
Lead (Pb)	µg/Rm ³	1.50	2.04	1.69	1.74	---		<	142.0	
Mercury (Hg)	µg/Rm ³	0.16	0.38	0.46	0.34	---		<	20.0	
Total PCDD / PCDF	pg/Rm ³ I-TEQ	9.5	3.4	17.3	10.1	<	40.0	<	80.0	
Total PAH	µg/Rm ³	44.5	21.1	3.5	23.0	---		---	---	
Formaldehyde	µg/Rm ³	< 90.1	23.7	12.3	< 42.0	---		---	---	
Carbon Monoxide (CO)	ppmv, dry	0.2	0.1	1.8	0.7	---		---	---	
Sulphur Dioxide (SO ₂)	ppmv, dry	8.1	11.6	3.9	7.9	<	14.0	<	21.0	
Nitrogen Oxides (as NO ₂)	ppmv, dry	96.4	98.1	89.9	94.8	---		<	110.0	
Total Hydrocarbons (as CH ₄)	ppmv, dry	0.0	0.2	0.2	0.2	<	75.0	<	100.0	
EMISSION RATES										
Particulate Matter (PM)	g/h	49.82	59.76	31.15	46.91	---		---	---	
Hydrogen Chloride (HCl)	g/h	6.41	7.81	10.82	8.35	---		---	---	
Cadmium (Cd)	mg/h	< 3.37	< 2.39	< 2.85	< 2.87	---		---	---	
Lead (Pb)	mg/h	24.94	36.39	30.91	30.75	---		---	---	
Mercury (Hg)	mg/h	2.63	6.85	8.51	6.00	---		---	---	
Total PCDD / PCDF	ng/h I-TEQ	149.19	59.11	302.90	170.40	---		---	---	
Total PAH	mg/h	696.39	369.00	61.42	375.60	---		---	---	
Formaldehyde	g/h	< 1.45	0.42	0.22	< 0.70	---		---	---	
Carbon Dioxide (CO ₂)	kg/h	2234	2631	2678	2515	---		---	---	
Carbon Monoxide (CO)	g/h	3.8	1.9	37.6	14.4	---		---	---	
Sulphur Dioxide (SO ₂)	g/h	344.1	535.0	180.8	353.3	---		---	---	
Nitrogen Oxides (as NO ₂)	g/h	2925.7	3255.4	3029.1	3070.1	---		---	---	
Total Hydrocarbons (as CH ₄)	g/h	6.4	7.8	10.8	8.3	---		---	---	

R or "Reference conditions" are 25 °C, 101.3 kPa, dry basis.

**TABLE AV-3 ENGINE # 3 BYPASS - SCENARIO # 1
SUMMARY OF RESULTS OF ATMOSPHERIC EMISSIONS**

PARAMETERS	UNITS	31-Mar-10	31-Mar-10	15-Apr-10	Average	CofA Limits		
		Test # 1	Test # 2	Test # 3		Operational	Maximum	
CONCENTRATIONS								
Particulate Matter (PM)	mg/Rm ³	3.11	4.64	6.44	4.73	---	---	
Hydrogen Chloride (HCl)	ppmv, dry	0.46	< 0.25	0.20	< 0.30	---	---	
Cadmium (Cd)	µg/Rm ³	0.11	0.17	< 0.16	< 0.15	---	---	
Lead (Pb)	µg/Rm ³	0.71	0.93	2.18	1.27	---	---	
Mercury (Hg)	µg/Rm ³	7.30	5.28	4.77	5.78	---	---	
Total PCDD / PCDF	pg/Rm ³ I-TEQ	7.8	6.1	34.9	16.2	---	---	
Total PAH	µg/Rm ³	96.4	109.1	78.7	94.7	---	---	
Formaldehyde	µg/Rm ³	111.2	77.5	30.6	73.1	---	---	
Oxygen (O ₂)	% v/v, dry	3.28	3.33	4.37	3.66	---	---	
Carbon Dioxide (CO ₂)	% v/v, dry	14.21	14.09	13.14	13.81	---	---	
Carbon Monoxide (CO)	ppmv, dry	64.3	66.2	72.2	67.6	---	---	
Sulphur Dioxide (SO ₂) - CEM	ppmv, dry	14.2	18.8	6.9	13.3	---	---	
Sulphur Dioxide (SO ₂) - manual	ppmv, dry	12.7	13.7	13.3	13.2	---	---	
Nitrogen Oxides (as NO ₂)	ppmv, dry	313.8	345.4	262.7	307.3	---	---	
Total Hydrocarbons (as CH ₄)	ppmv, dry	253.6	240.4	249.8	247.9	---	---	
CONCENTRATIONS @ 11 % V/V O₂								
Particulate Matter (PM)	mg/Rm ³	1.75	2.61	3.85	2.74	< 12.00	< 17.00	
Hydrogen Chloride (HCl)	ppmv, dry	0.25	< 0.14	0.12	< 0.17	< 13.00	< 18.00	
Cadmium (Cd)	µg/Rm ³	0.06	0.09	< 0.10	< 0.08	---	< 14.00	
Lead (Pb)	µg/Rm ³	0.40	0.52	1.31	0.74	---	< 142.00	
Mercury (Hg)	µg/Rm ³	4.10	2.98	2.86	3.31	---	< 20.00	
Total PCDD / PCDF	pg/Rm ³ I-TEQ	4.4	3.4	20.9	9.6	< 40.00	< 80.00	
Total PAH	µg/Rm ³	54.2	61.5	47.1	54.3	---	---	
Formaldehyde	µg/Rm ³	62.5	43.6	18.3	41.5	---	---	
Carbon Monoxide (CO)	ppmv, dry	36.10	37.30	43.20	38.87	---	---	
Sulphur Dioxide (SO ₂) - CEM	ppmv, dry	8.00	10.60	4.10	7.57	< 14.00	< 21.00	
Sulphur Dioxide (SO ₂) - manual	ppmv, dry	7.0	7.6	8.2	7.6	< 14.00	< 21.00	
Nitrogen Oxides (as NO ₂)	ppmv, dry	176.3	194.6	157.3	176.1	---	< 110.00	
Total Hydrocarbons (as CH ₄)	ppmv, dry	157.7	149.3	164.9	157.3	< 75.00	< 100.00	
EMISSION RATES								
Particulate Matter (PM)	g/h	7.38	12.17	16.86	12.14	---	---	
Hydrogen Chloride (HCl)	g/h	1.63	< 0.97	0.80	< 1.13	---	---	
Cadmium (Cd)	mg/h	0.25	0.43	< 0.43	< 0.37	---	---	
Lead (Pb)	mg/h	1.69	2.45	5.72	3.29	---	---	
Mercury (Hg)	mg/h	17.32	13.86	12.49	14.56	---	---	
Total PCDD / PCDF	ng/h I-TEQ	18.8	15.9	95.2	43.3	---	---	
Total PAH	mg/h	234.1	284.1	214.8	244.3	---	---	
Formaldehyde	g/h	0.3	0.2	0.1	0.2	---	---	
Carbon Dioxide (CO ₂)	kg/h	613.00	662.00	632.00	635.67	---	---	
Carbon Monoxide (CO)	g/h	176.60	198.00	220.90	198.50	---	---	
Sulphur Dioxide (SO ₂) - CEM	g/h	89.2	128.6	48.3	88.7	---	---	
Sulphur Dioxide (SO ₂) - manual	g/h	79.8	93.6	93.4	88.9	---	---	
Nitrogen Oxides (as NO ₂)	g/h	1416.5	1697.4	1320.9	1478.2	---	---	
Total Hydrocarbons (as CH ₄)	g/h	440.7	453.1	481.7	458.5	---	---	

R or "Reference conditions" are 25 °C, 101.3 kPa, dry basis.

**TABLE AV-4 ENGINE # 3 BYPASS - SCENARIO # 2
SUMMARY OF RESULTS OF ATMOSPHERIC EMISSIONS**

PARAMETERS	UNITS	15-Apr-10	16-Apr-10	06-May-10	Average	CofA Limits	
		Test # 1	Test # 2	Test # 3		Operational	Maximum
CONCENTRATIONS							
Particulate Matter (PM)	mg/Rm ³	14.03	4.69	2.72	7.15	---	---
Hydrogen Chloride (HCl)	ppmv, dry	0.36	0.43	0.47	0.42	---	---
Cadmium (Cd)	µg/Rm ³	< 0.14	< 0.15	< 0.12	< 0.14	---	---
Lead (Pb)	µg/Rm ³	0.60	0.15	0.50	0.42	---	---
Mercury (Hg)	µg/Rm ³	5.19	15.45	2.05	7.56	---	---
Total PCDD / PCDF	pg/Rm ³ I-TEQ	8.4	8.2	3.4	6.7	---	---
Total PAH	µg/Rm ³	79.2	131.0	350.6	186.9	---	---
Formaldehyde	µg/Rm ³	341.2	125.3	188.0	218.2	---	---
Oxygen (O ₂)	% v/v, dry	4.62	4.74	5.64	5.00	---	---
Carbon Dioxide (CO ₂)	% v/v, dry	12.79	12.90	12.59	12.76	---	---
Carbon Monoxide (CO)	ppmv, dry	69.7	90.0	96.4	85.4	---	---
Sulphur Dioxide (SO ₂) - CEM	ppmv, dry	14.2	10.2	6.0	10.1	---	---
Sulphur Dioxide (SO ₂) - manual	ppmv, dry	14.0	11.2	4.7	10.0	---	---
Nitrogen Oxides (as NO ₂)	ppmv, dry	282.3	339.9	275.7	299.3	---	---
Total Hydrocarbons (as CH ₄)	ppmv, dry	250.8	482.1	347.6	360.2	---	---
CONCENTRATIONS @ 11 % V/V O₂							
Particulate Matter (PM)	mg/Rm ³	8.53	2.87	1.76	4.39	< 12.00	< 17.00
Hydrogen Chloride (HCl)	ppmv, dry	0.23	0.28	0.31	0.27	< 13.00	< 18.00
Cadmium (Cd)	µg/Rm ³	< 0.08	< 0.09	< 0.08	< 0.08	---	< 14.00
Lead (Pb)	µg/Rm ³	0.37	0.09	0.32	0.26	---	< 142.00
Mercury (Hg)	µg/Rm ³	3.16	9.47	1.33	4.65	---	< 20.00
Total PCDD / PCDF	pg/Rm ³ I-TEQ	5.1	5.0	2.2	4.1	< 40.00	< 80.00
Total PAH	µg/Rm ³	48.1	80.3	227.4	118.6	---	---
Formaldehyde	µg/Rm ³	207.5	76.8	121.9	135.4	---	---
Carbon Monoxide (CO)	ppmv, dry	42.40	55.14	62.54	53.36	---	---
Sulphur Dioxide (SO ₂) - CEM	ppmv, dry	8.60	6.24	3.94	6.26	< 14.00	< 21.00
Sulphur Dioxide (SO ₂) - manual	ppmv, dry	9.1	7.4	3.1	6.5	< 14.00	< 21.00
Nitrogen Oxides (as NO ₂)	ppmv, dry	171.7	208.2	178.9	186.3	---	< 110.00
Total Hydrocarbons (as CH ₄)	ppmv, dry	152.5	295.3	225.5	224.5	< 75.00	< 100.00
EMISSION RATES							
Particulate Matter (PM)	g/h	35.98	11.50	7.41	18.30	---	---
Hydrogen Chloride (HCl)	g/h	1.41	1.59	1.91	1.63	---	---
Cadmium (Cd)	mg/h	< 0.36	< 0.36	< 0.32	< 0.35	---	---
Lead (Pb)	mg/h	1.55	0.36	1.37	1.09	---	---
Mercury (Hg)	mg/h	13.32	37.91	5.58	18.94	---	---
Total PCDD / PCDF	ng/h I-TEQ	23.1	20.9	9.3	17.7	---	---
Total PAH	mg/h	216.9	332.5	963.6	504.3	---	---
Formaldehyde	g/h	0.9	0.3	0.5	0.6	---	---
Carbon Dioxide (CO ₂)	kg/h	610.00	579.00	620.00	603.00	---	---
Carbon Monoxide (CO)	g/h	211.50	256.90	301.80	256.73	---	---
Sulphur Dioxide (SO ₂) - CEM	g/h	98.5	66.6	43.0	69.4	---	---
Sulphur Dioxide (SO ₂) - manual	g/h	97.3	73.1	33.9	68.1	---	---
Nitrogen Oxides (as NO ₂)	g/h	1407.5	1594.7	1418.6	1473.6	---	---
Total Hydrocarbons (as CH ₄)	g/h	479.4	863.3	682.2	675.0	---	---

R or "Reference conditions" are 25 °C, 101.3 kPa, dry basis.

**TABLE AV-5 OUTLET OF FLARE STACK (ENGINE 1 EXHAUST) - SCENARIO # 1
SUMMARY OF RESULTS OF ATMOSPHERIC EMISSIONS**

PARAMETERS	UNITS	02-Dec-10 Test # 1	03-Dec-10 Test # 2	04-Dec-10 Test # 3	Average	CofA Limits	
						Operational	Maximum
CONCENTRATIONS							
Particulate Matter (PM)	mg/Rm ³	1.08	0.93	1.02	1.01	---	---
Hydrogen Chloride (HCl)	mg/Rm ³	0.48	0.39	0.31	0.39	---	---
Cadmium (Cd)	µg/Rm ³	0.064	0.065	0.045	0.058	---	---
Lead (Pb)	µg/Rm ³	0.25	0.29	0.29	0.28	---	---
Mercury (Hg)	µg/Rm ³	0.33	0.18	0.19	0.23	---	---
Total PCDD / PCDF	pg/Rm ³ I-TEQ	<1.96	<2.24	<1.92	<2.04	---	---
Total PAH	µg/Rm ³	3.5	3.1	9.0	5.2	---	---
Formaldehyde	µg/Rm ³	53.7	189	96.4	113	---	---
Oxygen (O ₂)	% v/v, dry	6.89	7.68	6.84	7.14	---	---
Carbon Dioxide (CO ₂)	% v/v, dry	11.12	10.25	10.97	10.78	---	---
Carbon Monoxide (CO)	ppmv, dry	3.8	6.4	4.2	4.8	---	---
Sulphur Dioxide (SO ₂)	ppmv, dry	23.3	20.1	16.8	20.1	---	---
Nitrogen Oxides (as NO ₂)	ppmv, dry	74.8	67.7	95.0	79.2	---	---
Total Hydrocarbons (as CH ₄)	ppmv, dry	0.0	0.0	0.0	0.0	---	---
CONCENTRATIONS @ 11 % V/V O₂							
Particulate Matter (PM)	mg/Rm ³	0.77	0.70	0.72	0.73	< 12.0	< 17.0
Hydrogen Chloride (HCl)	mg/Rm ³	0.34	0.29	0.22	0.28	---	---
Cadmium (Cd)	µg/Rm ³	0.05	0.05	0.03	0.04	---	< 14.0
Lead (Pb)	µg/Rm ³	0.18	0.22	0.20	0.20	---	< 142.0
Mercury (Hg)	µg/Rm ³	0.23	0.13	0.13	0.17	---	< 20.0
Total PCDD / PCDF	pg/Rm ³ I-TEQ	<1.39	<1.68	<1.35	<1.47	< 40.0	< 80.0
Total PAH	µg/Rm ³	2.5	2.3	6.3	3.7	---	---
Formaldehyde	µg/Rm ³	37.9	141.4	67.8	82.4	---	---
Carbon Monoxide (CO)	ppmv, dry	2.7	4.8	3.0	3.5	---	---
Sulphur Dioxide (SO ₂)	ppmv, dry	16.5	15.1	11.8	14.4	---	---
Nitrogen Oxides (as NO ₂)	ppmv, dry	52.9	50.7	66.9	56.8	---	---
Total Hydrocarbons (as CH ₄)	ppmv, dry	0.0	0.0	0.0	0.0	---	---
EMISSION RATES							
Particulate Matter (PM)	g/h	19.04	15.62	16.16	16.94	---	---
Hydrogen Chloride (HCl)	g/h	8.17	6.70	5.09	6.65	---	---
Cadmium (Cd)	mg/h	1.13	1.09	0.71	0.98	---	---
Lead (Pb)	mg/h	4.41	4.83	4.59	4.61	---	---
Mercury (Hg)	mg/h	5.73	2.93	3.01	3.89	---	---
Total PCDD / PCDF	ng/h I-TEQ	<32.45	<39.66	<33.59	<35.23	---	---
Total PAH	mg/h	57.60	54.36	157.32	90.00	---	---
Formaldehyde	g/h	0.92	3.25	1.60	1.92	---	---
Carbon Dioxide (CO ₂)	kg/h	3409	3175	3281	3289	---	---
Carbon Monoxide (CO)	g/h	74.1	126.2	79.9	93.4	---	---
Sulphur Dioxide (SO ₂)	g/h	1039	906	731	892	---	---
Nitrogen Oxides (as NO ₂)	g/h	2397	2193	2971	2520	---	---
Total Hydrocarbons (as CH ₄)	g/h	0.00	0.00	0.00	0.00	---	---

R or "Reference conditions" are 25 °C, 101.3 kPa, dry basis.

**TABLE AV-6 OUTLET OF FLARE STACK (ENGINE 1 EXHAUST) - SCENARIO # 2
SUMMARY OF RESULTS OF ATMOSPHERIC EMISSIONS**

PARAMETERS	UNITS	05-Dec-10 Test # 1	08-Dec-10 Test # 2	10-Dec-10 Test # 3	Average	CofA Limits	
						Operational	Maximum
CONCENTRATIONS							
Particulate Matter (PM)	mg/Rm ³	1.31	1.68	0.93	1.31	---	---
Hydrogen Chloride (HCl)	ppmv, dry	0.39	0.25	0.16	0.26	---	---
Cadmium (Cd)	µg/Rm ³	0.16	0.090	<0.030	<0.094	---	---
Lead (Pb)	µg/Rm ³	0.41	0.40	0.08	0.30	---	---
Mercury (Hg)	µg/Rm ³	0.15	0.17	0.10	0.14	---	---
Total PCDD / PCDF	pg/Rm ³ I-TEQ	<2.21	<2.47	<1.89	<2.19	---	---
Total PAH	µg/Rm ³	2.6	2.6	2.7	2.6	---	---
Formaldehyde	µg/Rm ³	411	234	31.5	226	---	---
Oxygen (O ₂)	% v/v, dry	7.02	7.72	8.19	7.64	---	---
Carbon Dioxide (CO ₂)	% v/v, dry	10.82	10.32	9.73	10.29	---	---
Carbon Monoxide (CO)	ppmv, dry	2.5	4.2	10.0	5.6	---	---
Sulphur Dioxide (SO ₂)	ppmv, dry	19.9	14.5	18.3	17.6	---	---
Nitrogen Oxides (as NO ₂)	ppmv, dry	133	72.0	85.0	96.7	---	---
Total Hydrocarbons (as CH ₄)	ppmv, dry	0.0	0.0	0.0	0.0	---	---
CONCENTRATIONS @ 11 % V/V O₂							
Particulate Matter (PM)	mg/Rm ³	0.94	1.26	0.72	0.97	< 12.0	< 17.0
Hydrogen Chloride (HCl)	mg/Rm ³	0.28	0.19	0.12	0.20	---	---
Cadmium (Cd)	µg/Rm ³	0.12	0.067	<0.023	<0.069	---	< 14.0
Lead (Pb)	µg/Rm ³	0.29	0.30	0.064	0.22	---	< 142.0
Mercury (Hg)	µg/Rm ³	0.11	0.13	0.079	0.10	---	< 20.0
Total PCDD / PCDF	pg/Rm ³ I-TEQ	<1.58	<1.85	<1.47	<1.63	< 40.0	< 80.0
Total PAH	µg/Rm ³	1.8	2.0	2.1	2.0	---	---
Formaldehyde	µg/Rm ³	293.0	175.9	24.5	164.5	---	---
Carbon Monoxide (CO)	ppmv, dry	1.8	3.2	7.8	4.2	---	---
Sulphur Dioxide (SO ₂)	ppmv, dry	14.2	10.9	14.3	13.1	---	---
Nitrogen Oxides (as NO ₂)	ppmv, dry	94.9	54.1	66.2	71.7	---	---
Total Hydrocarbons (as CH ₄)	ppmv, dry	0.0	0.0	0.0	0.0	---	---
EMISSION RATES							
Particulate Matter (PM)	g/h	21.82	26.1	13.64	20.52	---	---
Hydrogen Chloride (HCl)	g/h	6.49	4.07	2.50	4.35	---	---
Cadmium (Cd)	mg/h	2.67	1.39	<0.44	<1.50	---	---
Lead (Pb)	mg/h	6.76	6.15	1.21	4.71	---	---
Mercury (Hg)	mg/h	2.52	2.63	1.50	2.21	---	---
Total PCDD / PCDF	ng/h I-TEQ	<37.21	<42.03	<32.70	<37.31	---	---
Total PAH	mg/h	43.20	44.28	47.16	45.00	---	---
Formaldehyde	g/h	6.87	3.81	0.50	3.73	---	---
Carbon Dioxide (CO ₂)	kg/h	3254	3020	2800	3025	---	---
Carbon Monoxide (CO)	g/h	47.8	78.2	183.1	103.1	---	---
Sulphur Dioxide (SO ₂)	g/h	870	617	766	751	---	---
Nitrogen Oxides (as NO ₂)	g/h	4182	2203	2557	2981	---	---
Total Hydrocarbons (as CH ₄)	g/h	0.00	0.00	0.00	0.00	---	---

R or "Reference conditions" are 25 °C, 101.3 kPa, dry basis.

**TABLE AV-7 OUTLET OF FLARE STACK (ASSIST GAS) - SCENARIO # 1
SUMMARY OF RESULTS OF ATMOSPHERIC EMISSIONS**

PARAMETERS	UNITS	11-Dec-10 Test # 1	12-Dec-10 Test # 2	15-Dec-10 Test # 3	Average	CofA Limits	
						Operational	Maximum
CONCENTRATIONS							
Particulate Matter (PM)	mg/Rm ³	0.94	1.17	0.53	0.88	---	---
Hydrogen Chloride (HCl)	mg/Rm ³	0.13	0.12	0.14	0.13	---	---
Cadmium (Cd)	µg/Rm ³	0.041	0.10	0.071	0.071	---	---
Lead (Pb)	µg/Rm ³	0.17	0.58	0.050	0.27	---	---
Mercury (Hg)	µg/Rm ³	0.065	0.50	0.053	0.21	---	---
Total PCDD / PCDF	pg/Rm ³ I-TEQ	<1.35	<1.29	<2.84	<1.83	---	---
Total PAH	µg/Rm ³	2.1	1.1	1.6	1.6	---	---
Formaldehyde	µg/Rm ³	44.3	70.8	83.1	66.1	---	---
Oxygen (O ₂)	% v/v, dry	10.63	10.89	9.66	10.39	---	---
Carbon Dioxide (CO ₂)	% v/v, dry	8.34	7.45	8.08	7.96	---	---
Carbon Monoxide (CO)	ppmv, dry	2.8	2.4	6.9	4.0	---	---
Sulphur Dioxide (SO ₂)	ppmv, dry	9.1	10.5	10.1	9.9	---	---
Nitrogen Oxides (as NO ₂)	ppmv, dry	76.6	48.3	73.3	66.1	---	---
Total Hydrocarbons (as CH ₄)	ppmv, dry	0.0	0.0	0.0	0.0	---	---
CONCENTRATIONS @ 11 % V/V O₂							
Particulate Matter (PM)	mg/Rm ³	0.91	1.16	0.47	0.84	< 12.0	< 17.0
Hydrogen Chloride (HCl)	mg/Rm ³	0.13	0.12	0.12	0.12	---	---
Cadmium (Cd)	µg/Rm ³	0.039	0.098	0.063	0.067	---	< 14.0
Lead (Pb)	µg/Rm ³	0.17	0.57	0.044	0.26	---	< 142.0
Mercury (Hg)	µg/Rm ³	0.063	0.50	0.047	0.20	---	< 20.0
Total PCDD / PCDF	pg/Rm ³ I-TEQ	<1.31	<1.27	<2.50	<1.69	< 40.0	< 80.0
Total PAH	µg/Rm ³	2.0	1.1	1.4	1.5	---	---
Formaldehyde	µg/Rm ³	42.7	70.0	73.2	62.0	---	---
Carbon Monoxide (CO)	ppmv, dry	2.7	2.4	6.1	3.7	---	---
Sulphur Dioxide (SO ₂)	ppmv, dry	8.8	10.4	8.9	9.4	---	---
Nitrogen Oxides (as NO ₂)	ppmv, dry	73.8	47.8	64.6	62.1	---	---
Total Hydrocarbons (as CH ₄)	ppmv, dry	0.0	0.0	0.0	0.0	---	---
EMISSION RATES							
Particulate Matter (PM)	g/h	16.06	19.33	8.46	14.62	---	---
Hydrogen Chloride (HCl)	g/h	2.47	2.13	2.33	2.31	---	---
Cadmium (Cd)	mg/h	0.70	1.64	1.14	1.16	---	---
Lead (Pb)	mg/h	2.98	9.56	0.81	4.45	---	---
Mercury (Hg)	mg/h	1.11	8.27	0.85	3.41	---	---
Total PCDD / PCDF	ng/h I-TEQ	<27.06	<24.32	<50.02	<33.80	---	---
Total PAH	mg/h	42.48	20.99	27.86	30.42	---	---
Formaldehyde	g/h	0.82	1.25	1.40	1.16	---	---
Carbon Dioxide (CO ₂)	kg/h	2781	2368	2443	2531	---	---
Carbon Monoxide (CO)	g/h	59.4	48.6	132.8	80.2	---	---
Sulphur Dioxide (SO ₂)	g/h	441	486	444	457	---	---
Nitrogen Oxides (as NO ₂)	g/h	2670	1605	2317	2197	---	---
Total Hydrocarbons (as CH ₄)	g/h	0.0	0.0	0.0	0.0	---	---

R or "Reference conditions" are 25 °C, 101.3 kPa, dry basis.

**TABLE AV-8 OUTLET OF FLARE STACK (ASSIST GAS) - SCENARIO # 2
SUMMARY OF RESULTS OF ATMOSPHERIC EMISSIONS**

PARAMETERS	UNITS	16-Dec-10 Test # 1	17-Dec-10 Test # 2	17-Dec-10 Test # 3	Average	CofA Limits	
						Operational	Maximum
CONCENTRATIONS							
Particulate Matter (PM)	mg/Rm ³	0.48	0.44	0.59	0.50	---	---
Hydrogen Chloride (HCl)	mg/Rm ³	0.11	0.14	0.10	0.12	---	---
Cadmium (Cd)	µg/Rm ³	<0.023	<0.023	<0.024	<0.023	---	---
Lead (Pb)	µg/Rm ³	0.028	0.044	0.022	0.031	---	---
Mercury (Hg)	µg/Rm ³	0.30	0.031	0.12	0.15	---	---
Total PCDD / PCDF	pg/Rm ³ I-TEQ	<1.64	<1.59	<1.30	<1.51	---	---
Total PAH	µg/Rm ³	0.9	0.9	0.8	0.9	---	---
Formaldehyde	µg/Rm ³	103	120	96.5	107	---	---
Oxygen (O ₂)	% v/v, dry	11.67	11.05	11.63	11.45	---	---
Carbon Dioxide (CO ₂)	% v/v, dry	6.69	7.50	7.04	7.08	---	---
Carbon Monoxide (CO)	ppmv, dry	4.8	4.4	0.6	3.3	---	---
Sulphur Dioxide (SO ₂)	ppmv, dry	7.6	9.4	7.2	8.1	---	---
Nitrogen Oxides (as NO ₂)	ppmv, dry	73.9	105	83.2	87.4	---	---
Total Hydrocarbons (as CH ₄)	ppmv, dry	0.0	0.0	0.0	0.0	---	---
CONCENTRATIONS @ 11 % V/V O₂							
Particulate Matter (PM)	mg/Rm ³	0.52	0.44	0.63	0.53	< 12.0	< 17.0
Hydrogen Chloride (HCl)	mg/Rm ³	0.12	0.15	0.11	0.12	---	---
Cadmium (Cd)	µg/Rm ³	<0.025	<0.023	<0.025	<0.024	---	< 14.0
Lead (Pb)	µg/Rm ³	0.029	0.045	0.024	0.033	---	< 142.0
Mercury (Hg)	µg/Rm ³	0.32	0.031	0.13	0.16	---	< 20.0
Total PCDD / PCDF	pg/Rm ³ I-TEQ	<1.76	<1.60	<1.39	<1.58	< 40.0	< 80.0
Total PAH	µg/Rm ³	1.0	0.9	0.8	0.9	---	---
Formaldehyde	µg/Rm ³	162	153	220	178	---	---
Carbon Monoxide (CO)	ppmv, dry	5.1	4.4	0.6	3.4	---	---
Sulphur Dioxide (SO ₂)	ppmv, dry	8.2	9.4	7.7	8.4	---	---
Nitrogen Oxides (as NO ₂)	ppmv, dry	79.3	105.5	88.9	91.2	---	---
Total Hydrocarbons (as CH ₄)	ppmv, dry	0	0	0	0	---	---
EMISSION RATES							
Particulate Matter (PM)	g/h	9.32	8.32	11.02	9.55	---	---
Hydrogen Chloride (HCl)	g/h	2.16	2.75	1.88	2.26	---	---
Cadmium (Cd)	mg/h	<0.44	<0.44	<0.44	<0.44	---	---
Lead (Pb)	mg/h	0.53	0.84	0.42	0.60	---	---
Mercury (Hg)	mg/h	5.84	0.59	2.29	2.91	---	---
Total PCDD / PCDF	ng/h I-TEQ	<33.25	<30.49	<25.17	<29.64	---	---
Total PAH	mg/h	18.94	17.50	14.62	17.03	---	---
Formaldehyde	g/h	2.04	2.29	1.83	2.05	---	---
Carbon Dioxide (CO ₂)	kg/h	2382	2566	2404	2451	---	---
Carbon Monoxide (CO)	g/h	108.8	95.8	13.0	72.5	---	---
Sulphur Dioxide (SO ₂)	g/h	394	468	358	406	---	---
Nitrogen Oxides (as NO ₂)	g/h	2751	3756	2971	3159	---	---
Total Hydrocarbons (as CH ₄)	g/h	0.0	0.0	0.0	0.0	---	---

R or "Reference conditions" are 25 °C, 101.3 kPa, dry basis.

TABLE AV-9 ENGINE # 1 BYPASS - SCENARIO # 1
SUMMARY OF RESULTS OF ATMOSPHERIC EMISSIONS

PARAMETERS	UNITS	02-Dec-10 Test # 1	03-Dec-10 Test # 2	04-Dec-10 Test # 3	Average	CofA Limits	
						Operational	Maximum
CONCENTRATIONS							
Particulate Matter (PM)	mg/Rm ³	0.83	0.82	3.54	1.73	---	---
Hydrogen Chloride (HCl)	mg/Rm ³	0.43	1.52	0.48	0.81	---	---
Cadmium (Cd)	µg/Rm ³	<0.021	0.072	0.012	<0.035	---	---
Lead (Pb)	µg/Rm ³	0.064	0.063	0.060	0.062	---	---
Mercury (Hg)	µg/Rm ³	0.18	0.12	0.055	0.12	---	---
Total PCDD / PCDF	pg/Rm ³ I-TEQ	<1.82	<2.25	<1.66	<1.91	---	---
Total PAH	µg/Rm ³	3.0	1.1	3.6	2.6	---	---
Formaldehyde	µg/Rm ³	236	434	371	347	---	---
Oxygen (O ₂)	% v/v, dry	4.43	4.45	4.49	4.46	---	---
Carbon Dioxide (CO ₂)	% v/v, dry	13.95	13.51	13.33	13.60	---	---
Carbon Monoxide (CO)	ppmv, dry	11.6	21.0	10.5	14.4	---	---
Sulphur Dioxide (SO ₂) - CEM	ppmv, dry	7.6	15.3	3.0	8.6	---	---
Sulphur Dioxide (SO ₂) - manual	ppmv, dry	no data	no data	no data	no data	---	---
Nitrogen Oxides (as NO ₂)	ppmv, dry	35.9	65.4	208	103	---	---
Total Hydrocarbons (as CH ₄)	ppmv, dry	283	204	256	248	---	---
CONCENTRATIONS @ 11 % V/V O₂							
Particulate Matter (PM)	mg/Rm ³	0.50	0.49	2.14	1.04	< 12.00	< 17.00
Hydrogen Chloride (HCl)	mg/Rm ³	0.26	0.92	0.29	0.49	---	---
Cadmium (Cd)	µg/Rm ³	<0.012	0.044	0.0075	<0.021	---	< 14.00
Lead (Pb)	µg/Rm ³	0.038	0.038	0.036	0.037	---	< 142.00
Mercury (Hg)	µg/Rm ³	0.10	0.073	0.033	0.070	---	< 20.00
Total PCDD / PCDF	pg/Rm ³ I-TEQ	<1.09	<1.35	<1.00	<1.15	< 40.00	< 80.00
Total PAH	µg/Rm ³	1.8	0.7	2.2	1.5	---	---
Formaldehyde	µg/Rm ³	142	261	224	209	---	---
Carbon Monoxide (CO)	ppmv, dry	7.0	12.6	6.3	8.6	---	---
Sulphur Dioxide (SO ₂) - CEM	ppmv, dry	4.6	9.2	1.8	5.2	---	---
Sulphur Dioxide (SO ₂) - manual	ppmv, dry	no data	no data	no data	no data	---	---
Nitrogen Oxides (as NO ₂)	ppmv, dry	21.6	39.4	125	62.1	---	---
Total Hydrocarbons (as CH ₄)	ppmv, dry	170	123	154	149	---	---
EMISSION RATES							
Particulate Matter (PM)	g/h	2.56	2.52	10.91	5.33	---	---
Hydrogen Chloride (HCl)	g/h	1.33	4.64	1.44	2.48	---	---
Cadmium (Cd)	mg/h	<0.065	0.22	0.04	<0.108	---	---
Lead (Pb)	mg/h	0.19	0.19	0.18	0.19	---	---
Mercury (Hg)	mg/h	0.54	0.36	0.1728	0.36	---	---
Total PCDD / PCDF	ng/h I-TEQ	<5.76	<6.84	<5.04	<5.76	---	---
Total PAH	mg/h	9.1	3.3	10.9	7.8	---	---
Formaldehyde	g/h	0.72	1.33	1.12	1.04	---	---
Carbon Dioxide (CO ₂)	kg/h	774	742	731	749	---	---
Carbon Monoxide (CO)	g/h	39.6	72	36	50.4	---	---
Sulphur Dioxide (SO ₂) - CEM	g/h	61.2	122.4	21.6	68.4	---	---
Sulphur Dioxide (SO ₂) - manual	g/h	no data	no data	no data	no data	---	---
Nitrogen Oxides (as NO ₂)	g/h	208.8	360	1188	576	---	---
Total Hydrocarbons (as CH ₄)	g/h	612	432	576	540	---	---

R or "Reference conditions" are 25 °C, 101.3 kPa, dry basis.

TABLE AV-10 ENGINE # 1 BYPASS - SCENARIO # 2
SUMMARY OF RESULTS OF ATMOSPHERIC EMISSIONS

PARAMETERS	UNITS	05-Dec-10 Test # 1	08-Dec-10 Test # 2	10-Dec-10 Test # 3	Average	CofA Limits	
						Operational	Maximum
CONCENTRATIONS							
Particulate Matter (PM)	mg/Rm ³	0.65	0.91	2.94	1.50	---	---
Hydrogen Chloride (HCl)	mg/Rm ³	0.43	0.23	0.44	0.36	---	---
Cadmium (Cd)	µg/Rm ³	0.017	0.021	<0.021	<0.020	---	---
Lead (Pb)	µg/Rm ³	0.058	0.039	0.042	0.046	---	---
Mercury (Hg)	µg/Rm ³	0.25	0.21	0.31	0.25	---	---
Total PCDD / PCDF	pg/Rm ³ I-TEQ	<1.14	<1.35	<2.47	<1.65	---	---
Total PAH	µg/Rm ³	0.88	0.91	3.11	1.63	---	---
Formaldehyde	µg/Rm ³	193	253	104	184	---	---
Oxygen (O ₂)	% v/v, dry	4.68	4.33	4.48	4.50	---	---
Carbon Dioxide (CO ₂)	% v/v, dry	13.25	13.52	13.28	13.35	---	---
Carbon Monoxide (CO)	ppmv, dry	12.5	9.0	8.9	10.1	---	---
Sulphur Dioxide (SO ₂) - CEM	ppmv, dry	5.6	2.8	1.8	3.4	---	---
Sulphur Dioxide (SO ₂) - manual	ppmv, dry	no data	no data	no data	no data	---	---
Nitrogen Oxides (as NO ₂)	ppmv, dry	184	50.4	128	121	---	---
Total Hydrocarbons (as CH ₄)	ppmv, dry	229	216	181	209	---	---
CONCENTRATIONS @ 11 % V/V O₂							
Particulate Matter (PM)	mg/Rm ³	0.40	0.54	1.78	0.91	< 12.00	< 17.00
Hydrogen Chloride (HCl)	mg/Rm ³	0.26	0.14	0.26	0.22	---	---
Cadmium (Cd)	µg/Rm ³	0.010	0.012	<0.013	<0.012	---	< 14.00
Lead (Pb)	µg/Rm ³	0.036	0.023	0.025	0.028	---	< 142.00
Mercury (Hg)	µg/Rm ³	0.15	0.12	0.19	0.15	---	< 20.00
Total PCDD / PCDF	pg/Rm ³ I-TEQ	<0.70	<0.81	<1.49	<1.00	< 40.00	< 80.00
Total PAH	µg/Rm ³	0.54	0.55	1.88	0.99	---	---
Formaldehyde	µg/Rm ³	118	151	62.8	111	---	---
Carbon Monoxide (CO)	ppmv, dry	7.6	5.4	5.4	6.1	---	---
Sulphur Dioxide (SO ₂) - CEM	ppmv, dry	3.42	1.67	1.09	2.06	---	---
Sulphur Dioxide (SO ₂) - manual	ppmv, dry	no data	no data	no data	no data	---	---
Nitrogen Oxides (as NO ₂)	ppmv, dry	112.3	30.1	77.3	73.2	---	---
Total Hydrocarbons (as CH ₄)	ppmv, dry	139.8	129.1	109.1	126.0	---	---
EMISSION RATES							
Particulate Matter (PM)	g/h	1.94	2.84	8.32	4.36	---	---
Hydrogen Chloride (HCl)	g/h	1.30	0.72	1.22	1.08	---	---
Cadmium (Cd)	mg/h	0.050	0.065	<0.058	<0.058	---	---
Lead (Pb)	mg/h	0.18	0.12	0.12	0.14	---	---
Mercury (Hg)	mg/h	0.76	0.65	0.86	0.76	---	---
Total PCDD / PCDF	ng/h I-TEQ	<3.38	<3.96	<7.20	<4.68	---	---
Total PAH	mg/h	2.63	2.74	8.86	4.75	---	---
Formaldehyde	g/h	0.58	0.79	0.30	0.54	---	---
Carbon Dioxide (CO ₂)	kg/h	713	745	677	709	---	---
Carbon Monoxide (CO)	g/h	43.2	31.3	28.8	34.6	---	---
Sulphur Dioxide (SO ₂) - CEM	g/h	43.2	22.3	13.3	26.6	---	---
Sulphur Dioxide (SO ₂) - manual	g/h	no data	no data	no data	no data	---	---
Nitrogen Oxides (as NO ₂)	g/h	1044	288	684	684	---	---
Total Hydrocarbons (as CH ₄)	g/h	504	468	360	432	---	---

R or "Reference conditions" are 25 °C, 101.3 kPa, dry basis.