Appendix A

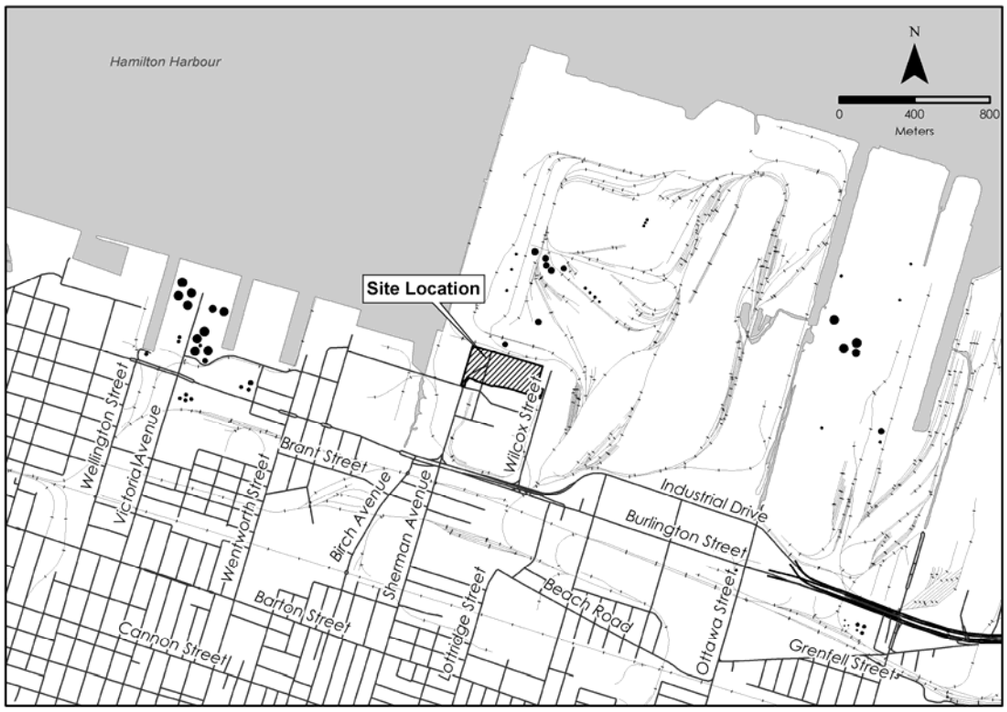
Notice of Commencement

Newspaper Advertisement
Template Letter to Neighbours within 500 meters
Template Letter to Government Agencies
Emails and Letters to Aboriginal Communities

Notice of Commencement and Public Open House of an Environmental Screening under the Ontario Environmental Assessment Act
Port Fuels & Material Services, Inc. – Energy From Waste Facility

Port Fuels & Material Services, Inc. has commenced an Environmental Screening process in accordance with the Waste Management Projects Regulation (Ontario Regulation 101/07) of the *Environmental Assessment Act* in order to permit and develop an Energy-From-Waste (EFW) facility with its Gasplasma® process. The proposed site would be on a parcel of leased land on Pier 15 in the Port of Hamilton, Ontario (See **Site Location** below).

The Gasplasma® process is an advanced thermal conversion technology developed to treat wastes and to convert them into synthetic gas (syngas). The core concept of this process is the conversion of waste to a clean syngas that can be used directly for production of heat or for generation of electricity or to substitute natural gas. The Gasplasma® technology has the capability to process a wide variety of waste streams, and for the purposes of this undertaking, the proposed facility would receive municipal (MSW), industrial, commercial & institutional (ICI), construction and demolition waste (C&D), biosolids, biomass, pre-processed tires, and other non-hazardous waste streams. It is anticipated that the proposed facility would receive and process up to 190,000 tonnes per year of non-hazardous wastes.



The Environmental Screening Process will be carried out according to the Waste Management Projects Regulation (Ontario Regulation 101/07) of the *Environmental Assessment Act* and the Guide to Environmental Assessment Requirements for Waste Management Projects. The results will be documented in an Environmental Screening Report, which will be released for public and agency review.

Stakeholder participation is an important part of the consultation process. Consultation activities such as public open houses provide stakeholders the opportunity to meet the project team, learn more about the project and to provide comments and additional questions regarding the project. The first Public Open House will discuss the background on the proposed undertaking as well as the Screening process and information on future consultation events. The details on the first Public Open House are as follows;

Date: Thursday April 17, 2014
Time: 6:00pm to 9:00pm
Location: Museum of Steam & Technology, 900 Woodward Ave, Hamilton

Should you have any questions or comments, or wish to be added to the project mailing list to receive updates as the project progresses, please contact either of the following Project Team members:

Robert M. Clark
Chief Operating Officer
RADM, U.S. Navy (Ret.)
Port Fuels & Materials Services Inc.
1 Main Street East, 3rd Floor
Hamilton, ON L8N 1E7
(905) 521-8475
rmclark@lgefund.com

Blair Shoniker, MA. MCIP, RPP
Senior Environmental Planner
Conestoga-Rovers & Associates

1195 Stellar Drive, Unit 1
Newmarket, ON L3Y 7B8
(905) 830-5656
bshoniker@CRAworld.com

All personal information included in a submission – such as name, address, telephone number and property location – is collected, maintained and disclosed by the Ministry of the Environment for the purpose of transparency and consultation. The information is collected under the authority of the Environmental Assessment Act or is collected and maintained for the purpose of creating a record that is available to the general public as described in s.37 of the Freedom of Information and Protection of Privacy Act (FIPPA). Personal information you submit will become part of a public record that is available to the general public unless you request that your personal information remain confidential. For more information, please contact the Ministry of the Environment's Freedom of Information and Privacy Coordinator at (416) 327-1434.

This Notice dated: April 3, 2014

April 4, 2014 Reference No. 084692

NEIGHBOUR WITHIN 500 M / STAKEHOLDER CONTACT NAME
ORGANIZATION (IF APPLICABLE)
ADDRESS 1
ADDRESS 2
CITY, PROV POSTAL CODE

Dear CONTACT NAME:

Re: Notice of Commencement and Public Open House of an Environmental Screening under the Ontario Environmental Assessment Act
Port Fuels & Material Services, Inc. – Energy from Waste Facility

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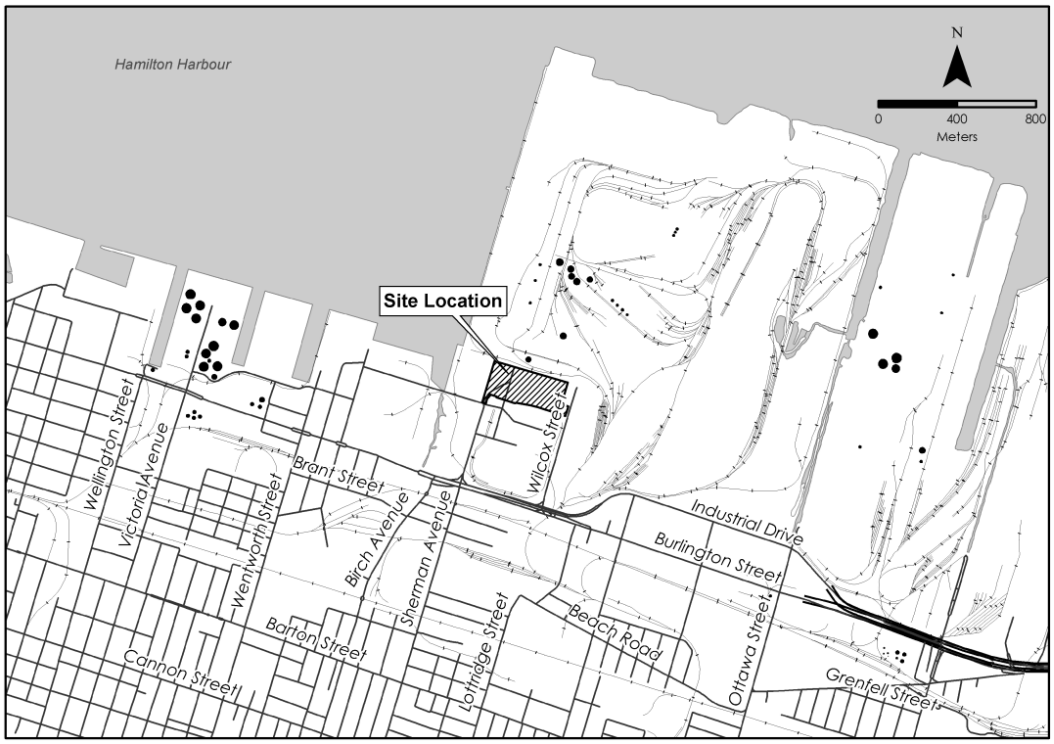

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Yours truly,

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Newmarket, ON L3Y 7B8
(905) 830-5656
bshoniker@CRAworld.com

BS/ss/FL1
Encl.

April 4, 2014 Reference No. 084692

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TITLE
AGENCY
ADDRESS 1
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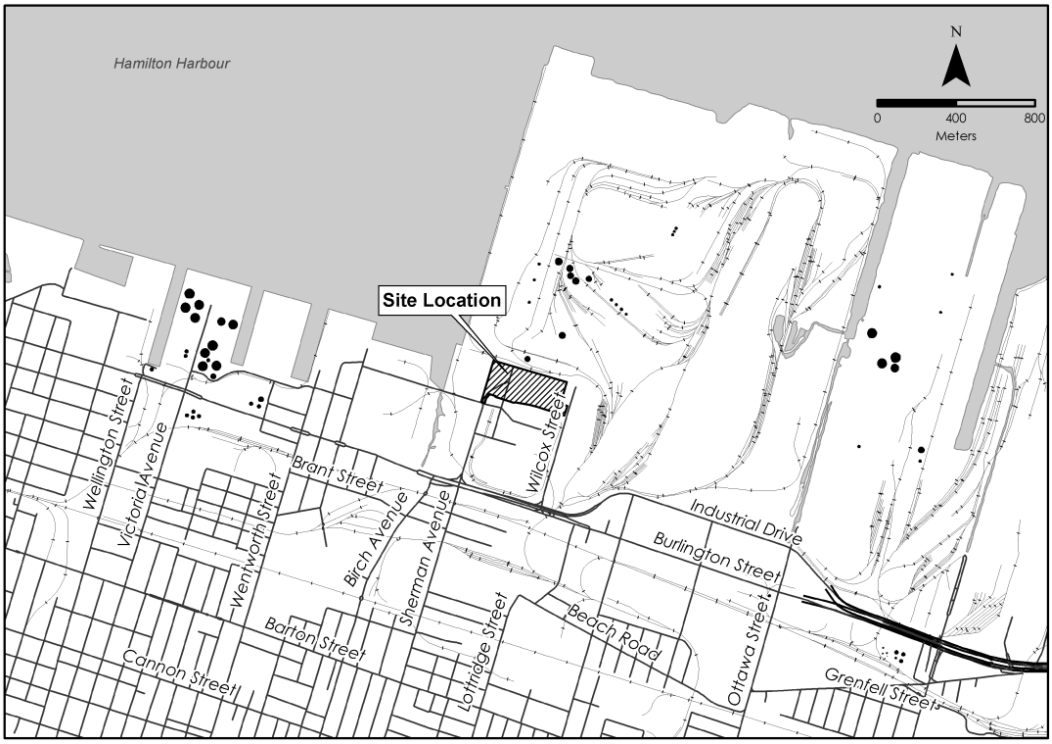

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1195 Stellar Drive, Unit 1
Newmarket, ON L3Y 7B8
(905) 830-5656
bshoniker@CRAworld.com

BS/ss/FL1
Encl.

Brown, Erika

From: Brown, Erika
Sent: Friday, April 04, 2014 3:45 PM
To: 'jamesw@metisnation.org'; 'president@metishamilton.org'
Cc: Shoniker, Blair
Subject: Notice of Commencement - Port Fuels & Material Services, Inc. - Energy From Waste Facility ~COR-084692~
Attachments: 084692 Notice of Study Commencement - NEWSPAPER.pdf

Good Afternoon,

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Consultation with Aboriginal communities is an important element of the Environmental Assessment process. Should you or your Council wish to become involved in the Environmental Assessment process or discuss the project, we would be pleased to work with you to develop and carry out separate events specifically designed to engage your community in meaningful discussions concerning the project.

Please be advised that a formal Notice of Commencement, including a copy of the Draft Screening Criteria Checklist, will be mailed to your attention next week.

Regards,

On behalf of
Blair Shoniker, Senior Environmental Planner
Conestoga-Rovers & Associates (CRA)
1195 Stellar Drive, Unit #1
Newmarket ON L3Y 7B8
Phone: 905 830-5656 Mobile: 647 525-9798
Fax: 905 830-0176

E-Mail: bshoniker@craworld.com

Erika Brown, M.Env.
Environmental Planner
Conestoga-Rovers & Associates (CRA)
1195 Stellar Drive, Unit #1
Newmarket ON L3Y 7B8

Phone: 905 830-5656 ext.2106
Fax: 905 830-0176
E-Mail: ebrown@craworld.com

www.CRAworld.com
Think before you print

April 15, 2014 Reference No. 084692

Mr. James Wagar
Métis Nation of Ontario
Supervisor, Lands & Resources
75 Sherbourne Street, Suite 311
Toronto, ON M5A 2P9

Dear Mr. James Wagar:

Re: Notice of Commencement and Public Open House for an
Environmental Screening under the Ontario Environmental Assessment Act
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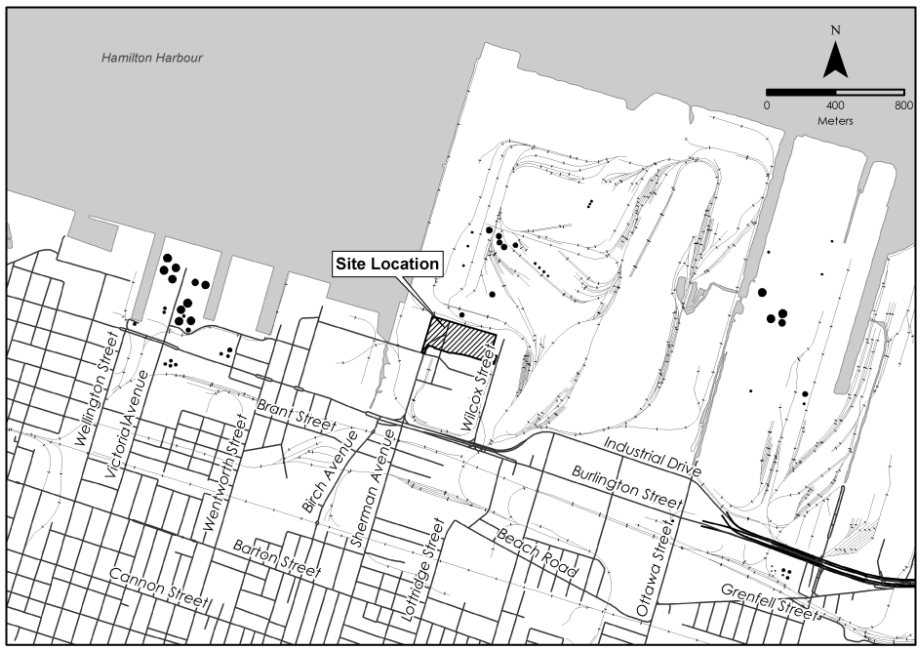

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As per the *Guide to Environmental Assessment Requirements for Waste Management Projects*, Port Fuels & Materials Services, Inc. has prepared the "Draft Screening Criteria Checklist" that is attached to this letter for your information.

Please let us know if you are interested in engaging in discussions and providing input to our project. We will keep you up to date on new developments. Please do not hesitate to ask any questions. For further information, please contact either of the undersigned.

Yours truly,

Robert M. Clark
Chief Operating Officer
RADM, U.S. Navy (Ret.)
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BS/ss/1
Encl.

COMPLETED SCREENING CRITERIA CHECKLIST

Each criterion is based on a question which is prefaced with the phrase:

Might the project….

	Criterion	Yes	No	Additional Information
	1. Surface and Ground Water			
1.1	Cause negative effects on surface water quality, quantities or flow?	X		The existing property was formerly used as an industrial property and effectively managed stormwater. We do not expect any significant changes to the stormwater management at the site. A Stormwater Study will confirm this.
1.2	Cause negative effects on ground water quality, quantity or movement?		X	As the proposed development has no storage of surface water, there will be no groundwater/surface water interaction.
1.3	Cause significant sedimentation or soil erosion or shoreline or riverbank erosion on or off site?		X	Given the urban setting of this project, no significant sedimentation or soil erosion is anticipated.
1.4	Cause negative effects on surface or ground water from accidental spills or releases (e.g., leachate) to the environment?	X		Materials on-site are limited to fuel, lubricating oils, and other fluids associated with maintaining the equipment. Staff will be routinely trained in spill response and containment techniques, and proper safeguards will be implemented.
	2. Land			
2.1	Cause negative effects on residential, commercial, institutional or other sensitive land uses within 500 metres from the site boundary?	X		Impacts during the construction phase may include impacts related to dust, noise and traffic that can be mitigated. The site is in a controlled area inside the Port of Hamilton, and is surrounded by other industrial operations. On-going traffic impact will be reviewed in the Traffic Impact Study.
2.2	Not be consistent with the Provincial Policy Statement, provincial land use or resource management plans?		X	No effects on provincial land-use or resource management plans are anticipated.
2.3	Be inconsistent with municipal land use policies, plans and zoning bylaws (including municipal setbacks)?		X	Based on the existing zoning ('K' or 'Industrial') for the site, a waste processing facility is a permitted use. Further, the site is surrounded by other industrial properties in the City of Hamilton.
2.4	Use lands not zoned as industrial, heavy industrial or waste disposal?		X	Based on the existing zoning ('K' or 'Industrial') for the site, a waste processing facility is a permitted use. Further, the site is surrounded by other industrial properties in the City of Hamilton.
2.5	Use hazard lands or unstable lands subject to erosion?		X	No hazard lands will be used.
2.6	Cause negative effects related to the remediation of contaminated land?		X	The existing property was formerly used as an industrial site.

COMPLETED SCREENING CRITERIA CHECKLIST

Each criterion is based on a question which is prefaced with the phrase:

Might the project….

	Criterion	Yes	No	Additional Information
	3. Air and Noise			
3.1	Cause negative effects on air quality due to emissions (for parameters such as temp, thermal treatment exhaust flue gas volume, nitrogen dioxide, sulphur dioxide, residual oxygen, opacity, hydrogen chloride, suspended particulates, or other contaminants)?	X		The process and emission control systems will all work together to keep levels well below applicable Ontario air quality guidelines. The Gasplasma® process produces a very clean fuel gas that is composed primarily of hydrogen and carbon dioxide. This fuel will be used in the power generation units. The only air emissions will be the emissions from the power generation engines or turbines. Air Emission Studies will confirm this.
3.2	Cause negative effects from the emission of greenhouse gases (e.g., carbon dioxide, carbon monoxide, methane)?	X		The plant will emit carbon dioxide and carbon monoxide (not a greenhouse gas). However, the net impact to the Ontario carbon footprint will be a reduction in carbon dioxide equivalent emissions (i.e. a negative carbon footprint) because the facility will use existing waste including organic materials that will displace fossil fuel emissions.
3.3	Cause negative effects from the emission of dust or odour?	X		Dust issues will be primarily during construction, and best construction practices will be used to mitigate this impact. During operation, the plant will always operate under negative pressure and emission controls will be used as necessary to minimize odour and dust release to the environment.
3.4	Cause negative effects from the emission of noise?	X		All plant operations are indoors. Relative to the site surroundings, noise levels from the Facility will be minimal and meet regulatory requirements. The Noise Study will confirm this. Most noise concerns will be from truck traffic to the site. Any equipment used for moving material for production purposes would need to meet NPC-300.
3.5	Cause light pollution from trucks or other operational activities at the site?	X		Relative to the site surroundings, this will be insignificant. All plant operations are indoors. Most light pollution concerns will be from truck traffic to the site.
	4. Natural Environment			
4.1	Cause negative effects on rare (vulnerable), threatened or endangered species of flora or fauna or their habitat?		X	No rare (vulnerable), threatened or endangered species of flora or fauna or their habitat are expected to be within the Study Area. The Natural Environment Study will confirm this.
4.2	Cause negative effects on protected natural areas such as, ANSIs, ESAs or other significant natural areas?		X	No protected natural areas such as, ANSIs, ESAs or other significant natural areas within the Study Area.
4.3	Cause negative effects on designated wetlands?		X	No construction is proposed within or near provincially or non-provincially significant wetlands.
4.4	Cause negative effects on wildlife habitat, populations, corridors or movement?		X	No habitat within the vicinity of the Study Area with respect to wildlife populations, corridors or movement. The Natural Environment Study will confirm this.

COMPLETED SCREENING CRITERIA CHECKLIST

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Might the project….

Criterion		Yes	No	Additional Information
4.5	Cause negative effects on fish or their habitat, spawning, movement or environmental conditions (e.g., water temperature, turbidity, etc.)?		X	While the site is located within proximity to Hamilton Harbour, we do not anticipate a negative effect occurring to fish and fish habitat within the harbor. Surface water will be managed according to appropriate regulations from a quality perspective.
4.6	Cause negative effects on locally important or valued ecosystems or vegetation?		X	No locally important or valued ecosystems or vegetation exist within the Study Area.
4.7	Increase bird hazards within the area that could impact surrounding land uses (e.g., airports)?		X	No airports within 15 km of the Site. All waste materials will be enclosed within Facility buildings. No outdoor storage.
	5. Resources			
5.1	Result in practices inconsistent with waste studies and/or waste diversion targets (e.g., result in final disposal of materials subject to diversion programs)?		X	Will work to maximize landfill diversion from current practices. The Facility will separate recyclable materials and will divert non-recyclable materials from landfills.
5.2	Result in generation of energy that cannot be captured and utilized?		X	All generated energy will be either used on site, or sold to adjoining properties or the Grid.
5.3	Be located a distance from required infrastructure (such as availability to customers, markets and other factors)?		X	Sufficient raw materials can be sourced from properties within Hamilton, and the electrical grid is adjacent to the site for energy output. Minimal infrastructure required.
5.4	Cause negative effects on the use of Canada Land Inventory Class 1-3, specialty crop or locally significant agricultural lands?		X	Site is zoned Industrial, no Canada Land Inventory Class 1-3, specialty crop or locally significant agricultural lands will be utilized or impacted.
5.5	Cause negative effects on existing agricultural production?		X	Site is zoned Industrial, no Canada Land Inventory Class 1-3, specialty crop or locally significant agricultural lands will be utilized or impacted.
	6. Socio-economic			
6.1	Cause negative effects on neighbourhood or community character?		X	Area is currently zoned Industrial. The Facility fits with the surrounding land uses.
6.2	Result in aesthetics impacts (e.g., visual and litter impacts)?		X	All material will be stored indoors.
6.3	Cause negative effects on local businesses, institutions or public facilities?		X	Positive financial impacts during construction and operations phases. Fits with the surrounding land uses.
6.4	Cause negative effects on recreation, cottaging or tourism?		X	Area is currently zoned Industrial, fits with the surrounding land uses.
6.5	Cause negative effects related to increases in the demands on community services and infrastructure?		X	No increase in demand for community services and infrastructure.
6.6	Cause negative effects on the economic base of a municipality or community?		X	Positive financial impacts during construction and operations phases.
6.7	Cause negative effects on local employment and labour supply?		X	Positive financial impacts during construction and operations phases.
6.8	Cause negative effects related to traffic?	X		Traffic will slightly increase as a result of this proposed undertaking and is expected to be

COMPLETED SCREENING CRITERIA CHECKLIST

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	Criterion	Yes	No	Additional Information
				acceptable relative to local traffic volumes. A Traffic Study will confirm this.
6.9	Be located within 8 km of an aerodrome/airport reference point?		X	Closest airport is Hamilton Airport, which is approximately 15 km away.
6.10	Interfere with flight paths due to the construction of facilities with height (i.e. stacks)?		X	Stack heights are lower than existing stacks in the area and will not interfere with flight paths.
6.11	Cause negative effects on public health and safety?	X		Negative effects could occur in a major failure of all emission control systems. Sufficient safeguards and backups are inherent to the facility design to eliminate this risk.
	7. Heritage and Culture			
7.1	Cause negative effects on heritage buildings, structures or sites, archaeological sites or areas of archaeological importance, or cultural heritage landscapes?		X	No known heritage buildings, structures or sites, neither areas of archaeological importance nor any cultural landscapes have been identified on the project site. A Stage 1 Archaeological Assessment will be undertaken to confirm this.
7.2	Cause negative effects on scenic or aesthetically pleasing landscapes or views?		X	Area is currently zoned Industrial, fits with the surrounding land uses.
	8. Aboriginal			
8.1	Cause negative effects on land, resources, traditional activities or other interests of Aboriginal communities?		X	Site is not subject to any land claims, however consultation with First Nation/Aboriginal groups will take place throughout the Screening.
	9. Other			
9.1	Result in the creation of non-hazardous waste materials requiring disposal?	X		During construction, waste will be created and disposed of appropriately. During operations, inert residuals may require disposal if an application for the material is not confirmed. The purpose of the operational facility is to use non-hazardous wastes and convert to energy.
9.2	Result in the creation of hazardous waste materials requiring disposal?	X		Hazardous waste materials are not allowed to be received at the Facility and they are not created during normal operations. However, it is possible that during sorting of incoming waste, certain hazardous materials may be found that will require appropriate disposition.
9.3	Cause any other negative environmental effects not covered by the criteria outlined above?		X	No other negative environmental effects are expected.

April 15, 2014 Reference No. 084692

Ms. Joanne Young
President
MNO Hamilton-Wentworth Métis Council
445 Concession Street
Hamilton, ON L9A 1C1

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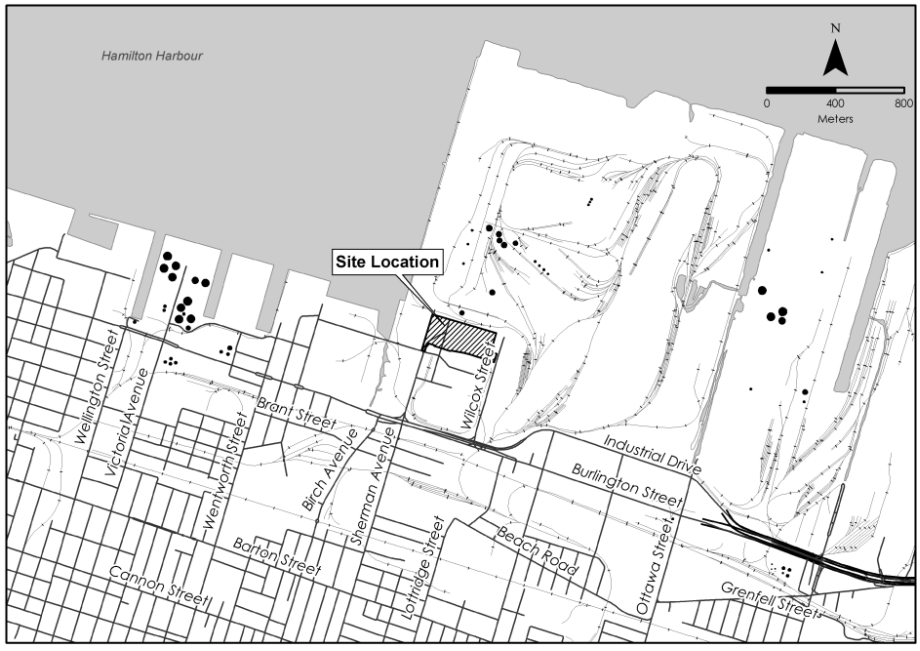

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Robert M. Clark
Chief Operating Officer
RADM, U.S. Navy (Ret.)
Port Fuels & Materials Services, Inc.
1 Main Street East, 3rd Floor
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Blair Shoniker, MA. MCIP, RPP
Senior Environmental Planner
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(905) 830-5656
bshoniker@CRAworld.com

BS/ss/1
Encl.

COMPLETED SCREENING CRITERIA CHECKLIST

Each criterion is based on a question which is prefaced with the phrase:

Might the project….

	Criterion	Yes	No	Additional Information
	1. Surface and Ground Water			
1.1	Cause negative effects on surface water quality, quantities or flow?	X		The existing property was formerly used as an industrial property and effectively managed stormwater. We do not expect any significant changes to the stormwater management at the site. A Stormwater Study will confirm this.
1.2	Cause negative effects on ground water quality, quantity or movement?		X	As the proposed development has no storage of surface water, there will be no groundwater/surface water interaction.
1.3	Cause significant sedimentation or soil erosion or shoreline or riverbank erosion on or off site?		X	Given the urban setting of this project, no significant sedimentation or soil erosion is anticipated.
1.4	Cause negative effects on surface or ground water from accidental spills or releases (e.g., leachate) to the environment?	X		Materials on-site are limited to fuel, lubricating oils, and other fluids associated with maintaining the equipment. Staff will be routinely trained in spill response and containment techniques, and proper safeguards will be implemented.
	2. Land			
2.1	Cause negative effects on residential, commercial, institutional or other sensitive land uses within 500 metres from the site boundary?	X		Impacts during the construction phase may include impacts related to dust, noise and traffic that can be mitigated. The site is in a controlled area inside the Port of Hamilton, and is surrounded by other industrial operations. On-going traffic impact will be reviewed in the Traffic Impact Study.
2.2	Not be consistent with the Provincial Policy Statement, provincial land use or resource management plans?		X	No effects on provincial land-use or resource management plans are anticipated.
2.3	Be inconsistent with municipal land use policies, plans and zoning bylaws (including municipal setbacks)?		X	Based on the existing zoning ('K' or 'Industrial') for the site, a waste processing facility is a permitted use. Further, the site is surrounded by other industrial properties in the City of Hamilton.
2.4	Use lands not zoned as industrial, heavy industrial or waste disposal?		X	Based on the existing zoning ('K' or 'Industrial') for the site, a waste processing facility is a permitted use. Further, the site is surrounded by other industrial properties in the City of Hamilton.
2.5	Use hazard lands or unstable lands subject to erosion?		X	No hazard lands will be used.
2.6	Cause negative effects related to the remediation of contaminated land?		X	The existing property was formerly used as an industrial site.

COMPLETED SCREENING CRITERIA CHECKLIST

Each criterion is based on a question which is prefaced with the phrase:

Might the project….

	Criterion	Yes	No	Additional Information
	3. Air and Noise			
3.1	Cause negative effects on air quality due to emissions (for parameters such as temp, thermal treatment exhaust flue gas volume, nitrogen dioxide, sulphur dioxide, residual oxygen, opacity, hydrogen chloride, suspended particulates, or other contaminants)?	X		The process and emission control systems will all work together to keep levels well below applicable Ontario air quality guidelines. The Gasplasma® process produces a very clean fuel gas that is composed primarily of hydrogen and carbon dioxide. This fuel will be used in the power generation units. The only air emissions will be the emissions from the power generation engines or turbines. Air Emission Studies will confirm this.
3.2	Cause negative effects from the emission of greenhouse gases (e.g., carbon dioxide, carbon monoxide, methane)?	X		The plant will emit carbon dioxide and carbon monoxide (not a greenhouse gas). However, the net impact to the Ontario carbon footprint will be a reduction in carbon dioxide equivalent emissions (i.e. a negative carbon footprint) because the facility will use existing waste including organic materials that will displace fossil fuel emissions.
3.3	Cause negative effects from the emission of dust or odour?	X		Dust issues will be primarily during construction, and best construction practices will be used to mitigate this impact. During operation, the plant will always operate under negative pressure and emission controls will be used as necessary to minimize odour and dust release to the environment.
3.4	Cause negative effects from the emission of noise?	X		All plant operations are indoors. Relative to the site surroundings, noise levels from the Facility will be minimal and meet regulatory requirements. The Noise Study will confirm this. Most noise concerns will be from truck traffic to the site. Any equipment used for moving material for production purposes would need to meet NPC-300.
3.5	Cause light pollution from trucks or other operational activities at the site?	X		Relative to the site surroundings, this will be insignificant. All plant operations are indoors. Most light pollution concerns will be from truck traffic to the site.
	4. Natural Environment			
4.1	Cause negative effects on rare (vulnerable), threatened or endangered species of flora or fauna or their habitat?		X	No rare (vulnerable), threatened or endangered species of flora or fauna or their habitat are expected to be within the Study Area. The Natural Environment Study will confirm this.
4.2	Cause negative effects on protected natural areas such as, ANSIs, ESAs or other significant natural areas?		X	No protected natural areas such as, ANSIs, ESAs or other significant natural areas within the Study Area.
4.3	Cause negative effects on designated wetlands?		X	No construction is proposed within or near provincially or non-provincially significant wetlands.
4.4	Cause negative effects on wildlife habitat, populations, corridors or movement?		X	No habitat within the vicinity of the Study Area with respect to wildlife populations, corridors or movement. The Natural Environment Study will confirm this.

COMPLETED SCREENING CRITERIA CHECKLIST

Each criterion is based on a question which is prefaced with the phrase:

Might the project….

Criterion		Yes	No	Additional Information
4.5	Cause negative effects on fish or their habitat, spawning, movement or environmental conditions (e.g., water temperature, turbidity, etc.)?		X	While the site is located within proximity to Hamilton Harbour, we do not anticipate a negative effect occurring to fish and fish habitat within the harbor. Surface water will be managed according to appropriate regulations from a quality perspective.
4.6	Cause negative effects on locally important or valued ecosystems or vegetation?		X	No locally important or valued ecosystems or vegetation exist within the Study Area.
4.7	Increase bird hazards within the area that could impact surrounding land uses (e.g., airports)?		X	No airports within 15 km of the Site. All waste materials will be enclosed within Facility buildings. No outdoor storage.
	5. Resources			
5.1	Result in practices inconsistent with waste studies and/or waste diversion targets (e.g., result in final disposal of materials subject to diversion programs)?		X	Will work to maximize landfill diversion from current practices. The Facility will separate recyclable materials and will divert non-recyclable materials from landfills.
5.2	Result in generation of energy that cannot be captured and utilized?		X	All generated energy will be either used on site, or sold to adjoining properties or the Grid.
5.3	Be located a distance from required infrastructure (such as availability to customers, markets and other factors)?		X	Sufficient raw materials can be sourced from properties within Hamilton, and the electrical grid is adjacent to the site for energy output. Minimal infrastructure required.
5.4	Cause negative effects on the use of Canada Land Inventory Class 1-3, specialty crop or locally significant agricultural lands?		X	Site is zoned Industrial, no Canada Land Inventory Class 1-3, specialty crop or locally significant agricultural lands will be utilized or impacted.
5.5	Cause negative effects on existing agricultural production?		X	Site is zoned Industrial, no Canada Land Inventory Class 1-3, specialty crop or locally significant agricultural lands will be utilized or impacted.
	6. Socio-economic			
6.1	Cause negative effects on neighbourhood or community character?		X	Area is currently zoned Industrial. The Facility fits with the surrounding land uses.
6.2	Result in aesthetics impacts (e.g., visual and litter impacts)?		X	All material will be stored indoors.
6.3	Cause negative effects on local businesses, institutions or public facilities?		X	Positive financial impacts during construction and operations phases. Fits with the surrounding land uses.
6.4	Cause negative effects on recreation, cottaging or tourism?		X	Area is currently zoned Industrial, fits with the surrounding land uses.
6.5	Cause negative effects related to increases in the demands on community services and infrastructure?		X	No increase in demand for community services and infrastructure.
6.6	Cause negative effects on the economic base of a municipality or community?		X	Positive financial impacts during construction and operations phases.
6.7	Cause negative effects on local employment and labour supply?		X	Positive financial impacts during construction and operations phases.
6.8	Cause negative effects related to traffic?	X		Traffic will slightly increase as a result of this proposed undertaking and is expected to be

COMPLETED SCREENING CRITERIA CHECKLIST

Each criterion is based on a question which is prefaced with the phrase:

Might the project….

	Criterion	Yes	No	Additional Information
				acceptable relative to local traffic volumes. A Traffic Study will confirm this.
6.9	Be located within 8 km of an aerodrome/airport reference point?		X	Closest airport is Hamilton Airport, which is approximately 15 km away.
6.10	Interfere with flight paths due to the construction of facilities with height (i.e. stacks)?		X	Stack heights are lower than existing stacks in the area and will not interfere with flight paths.
6.11	Cause negative effects on public health and safety?	X		Negative effects could occur in a major failure of all emission control systems. Sufficient safeguards and backups are inherent to the facility design to eliminate this risk.
	7. Heritage and Culture			
7.1	Cause negative effects on heritage buildings, structures or sites, archaeological sites or areas of archaeological importance, or cultural heritage landscapes?		X	No known heritage buildings, structures or sites, neither areas of archaeological importance nor any cultural landscapes have been identified on the project site. A Stage 1 Archaeological Assessment will be undertaken to confirm this.
7.2	Cause negative effects on scenic or aesthetically pleasing landscapes or views?		X	Area is currently zoned Industrial, fits with the surrounding land uses.
	8. Aboriginal			
8.1	Cause negative effects on land, resources, traditional activities or other interests of Aboriginal communities?		X	Site is not subject to any land claims, however consultation with First Nation/Aboriginal groups will take place throughout the Screening.
	9. Other			
9.1	Result in the creation of non-hazardous waste materials requiring disposal?	X		During construction, waste will be created and disposed of appropriately. During operations, inert residuals may require disposal if an application for the material is not confirmed. The purpose of the operational facility is to use non-hazardous wastes and convert to energy.
9.2	Result in the creation of hazardous waste materials requiring disposal?	X		Hazardous waste materials are not allowed to be received at the Facility and they are not created during normal operations. However, it is possible that during sorting of incoming waste, certain hazardous materials may be found that will require appropriate disposition.
9.3	Cause any other negative environmental effects not covered by the criteria outlined above?		X	No other negative environmental effects are expected.

Brown, Erika

From: Brown, Erika
Sent: Friday, April 04, 2014 3:44 PM
To: 'bryanlaforme@newcreditfirstnation.com'; 'margaret.sault@newcreditfirstnation.com'; 'carolyn.king@newcreditfirstnation.com'
Cc: Shoniker, Blair
Subject: Notice of Commencement - Port Fuels & Material Services, Inc. - Energy From Waste Facility ~COR-084692~
Attachments: 084692 Notice of Study Commencement - NEWSPAPER.pdf

Good Afternoon,

Port Fuels & Material Services, Inc. has commenced an Environmental Screening process in accordance with the Waste Management Projects Regulation (Ontario Regulation 101/07) of the *Environmental Assessment Act* in order to permit and develop an Energy-From-Waste (EFW) facility with its Gasplasma® process. The proposed site would be on a parcel of leased land on Pier 15 in the Port of Hamilton, Ontario.

The Gasplasma® process is an advanced thermal conversion technology developed to treat wastes and to convert them into synthetic gas (syngas). The core concept of this process is the conversion of waste to a clean syngas that can be used directly for production of heat or for generation of electricity or to substitute natural gas. The Gasplasma® technology has the capability to process a wide variety of waste streams, and for the purposes of this undertaking, the proposed facility would receive municipal (MSW), industrial, commercial & institutional (ICI), construction and demolition waste (C&D), biosolids, biomass, pre-processed tires, and other non-hazardous waste streams. It is anticipated that the proposed facility would receive and process up 190,000 tonnes per year of non-hazardous wastes.

The Environmental Screening Process will be carried out according to the Waste Management Projects Regulation (Ontario Regulation 101/07) of the *Environmental Assessment Act* and the Guide to Environmental Assessment Requirements for Waste Management Projects. The results will be documented in an Environmental Screening Report, which will be released for review.

A Public Open House is scheduled to take place on Thursday, April 17, 2014 from 6:00 p.m. to 9:00 p.m. at the Museum of Steam & Technology, 900 Woodward Ave, Hamilton. The first Open House will discuss the background on the proposed undertaking as well as the Screening process and information on future consultation events.

Consultation with Aboriginal communities is an important element of the Environmental Assessment process. Should you or your Council wish to become involved in the Environmental Assessment process or discuss the project, we would be pleased to work with you to develop and carry out separate events specifically designed to engage your community in meaningful discussions concerning the project.

Please be advised that a formal Notice of Commencement, including a copy of the Draft Screening Criteria Checklist, will be mailed to your attention next week.

Regards,

On behalf of
Blair Shoniker, Senior Environmental Planner
Conestoga-Rovers & Associates (CRA)
1195 Stellar Drive, Unit #1
Newmarket ON L3Y 7B8
Phone: 905 830-5656 Mobile: 647 525-9798

Fax: 905 830-0176
E-Mail: bshoniker@craworld.com

Erika Brown, M.Env.
Environmental Planner
Conestoga-Rovers & Associates (CRA)
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Phone: 905 830-5656 ext.2106
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www.CRAworld.com
Think before you print

April 15, 2014 Reference No. 084692

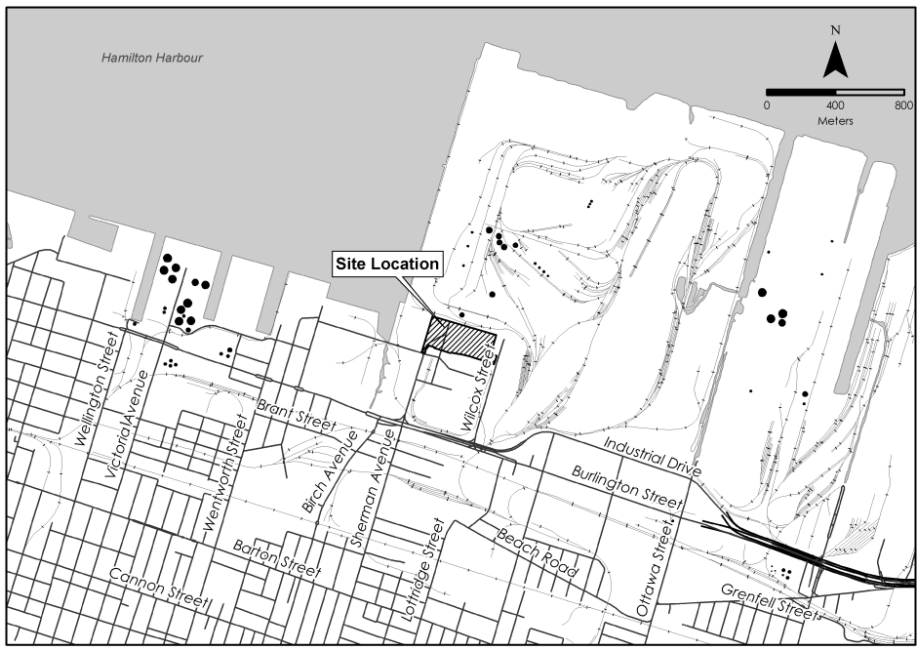
Chief Bryan LaForme
Mississaugas of the New Credit First Nation
R.R. #6 2789 Mississauga Rd
Hagersville, ON N0A 1H0

Dear Chief Bryan LaForme:

Re: Notice of Commencement and Public Open House for an
Environmental Screening under the Ontario Environmental Assessment Act
Port Fuels & Materials Services, Inc. – Energy from Waste Facility

Port Fuels & Materials Services, Inc. has commenced an Environmental Screening process in accordance with the Waste Management Projects Regulation (Ontario Regulation 101/07) of the *Environmental Assessment Act* in order to permit and develop an Energy-From-Waste (EFW) facility with its Gasplasma® process. The proposed site would be on a parcel of leased land on Pier 15 in the Port of Hamilton, Ontario (See **Site Location** below).

The Gasplasma® process is an advanced thermal conversion technology developed to treat wastes and to convert them into synthetic gas (syngas). The core concept of this process is the conversion of waste to a clean syngas that can be used directly for production of heat or for generation of electricity or to substitute natural gas. The Gasplasma® technology has the capability to process a wide variety of waste streams, and for the purposes of this undertaking, the proposed facility would receive municipal (MSW), industrial, commercial & institutional (ICI), construction and demolition waste (C&D), biosolids, biomass, pre-processed tires, and other non-hazardous waste streams. It is anticipated that the proposed facility would receive and process up 190,000 tonnes per year of non-hazardous wastes.



The Environmental Screening Process will be carried out according to the Waste Management Projects Regulation (Ontario Regulation 101/07) of the *Environmental Assessment Act* and the Guide to Environmental Assessment Requirements for Waste Management Projects. The results will be documented in an Environmental Screening Report, which will be released for review.

A Public Open House is scheduled to take place on Thursday, April 17, 2014 from 6:00 p.m. to 9:00 p.m. at the Museum of Steam & Technology, 900 Woodward Ave, Hamilton. The first Open House will discuss the background on the proposed undertaking as well as the Screening process and information on future consultation events.

Consultation with Aboriginal communities is an important element of the Environmental Assessment process. Should you or your Council wish to become involved in the Environmental Assessment process or discuss the project, we would be pleased to work with you to develop and carry out separate events specifically designed to engage your community in meaningful discussions concerning the project.

As per the *Guide to Environmental Assessment Requirements for Waste Management Projects*, Port Fuels & Materials Services, Inc. has prepared the "Draft Screening Criteria Checklist" that is attached to this letter for your information.

Please let us know if you are interested in engaging in discussions and providing input to our project. We will keep you up to date on new developments. Please do not hesitate to ask any questions. For further information, please contact either of the undersigned.

Yours truly,

Robert M. Clark
Chief Operating Officer
RADM, U.S. Navy (Ret.)
Port Fuels & Materials Services, Inc.
1 Main Street East, 3rd Floor
Hamilton, ON L8N 1E7
(905) 521-8475
rmclark@lgefund.com

Blair Shoniker, MA. MCIP, RPP
Senior Environmental Planner
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BS/ss/1
Encl.

COMPLETED SCREENING CRITERIA CHECKLIST

Each criterion is based on a question which is prefaced with the phrase:

Might the project….

	Criterion	Yes	No	Additional Information
	1. Surface and Ground Water			
1.1	Cause negative effects on surface water quality, quantities or flow?	X		The existing property was formerly used as an industrial property and effectively managed stormwater. We do not expect any significant changes to the stormwater management at the site. A Stormwater Study will confirm this.
1.2	Cause negative effects on ground water quality, quantity or movement?		X	As the proposed development has no storage of surface water, there will be no groundwater/surface water interaction.
1.3	Cause significant sedimentation or soil erosion or shoreline or riverbank erosion on or off site?		X	Given the urban setting of this project, no significant sedimentation or soil erosion is anticipated.
1.4	Cause negative effects on surface or ground water from accidental spills or releases (e.g., leachate) to the environment?	X		Materials on-site are limited to fuel, lubricating oils, and other fluids associated with maintaining the equipment. Staff will be routinely trained in spill response and containment techniques, and proper safeguards will be implemented.
	2. Land			
2.1	Cause negative effects on residential, commercial, institutional or other sensitive land uses within 500 metres from the site boundary?	X		Impacts during the construction phase may include impacts related to dust, noise and traffic that can be mitigated. The site is in a controlled area inside the Port of Hamilton, and is surrounded by other industrial operations. On-going traffic impact will be reviewed in the Traffic Impact Study.
2.2	Not be consistent with the Provincial Policy Statement, provincial land use or resource management plans?		X	No effects on provincial land-use or resource management plans are anticipated.
2.3	Be inconsistent with municipal land use policies, plans and zoning bylaws (including municipal setbacks)?		X	Based on the existing zoning ('K' or 'Industrial') for the site, a waste processing facility is a permitted use. Further, the site is surrounded by other industrial properties in the City of Hamilton.
2.4	Use lands not zoned as industrial, heavy industrial or waste disposal?		X	Based on the existing zoning ('K' or 'Industrial') for the site, a waste processing facility is a permitted use. Further, the site is surrounded by other industrial properties in the City of Hamilton.
2.5	Use hazard lands or unstable lands subject to erosion?		X	No hazard lands will be used.
2.6	Cause negative effects related to the remediation of contaminated land?		X	The existing property was formerly used as an industrial site.

COMPLETED SCREENING CRITERIA CHECKLIST

Each criterion is based on a question which is prefaced with the phrase:

Might the project….

	Criterion	Yes	No	Additional Information
	3. Air and Noise			
3.1	Cause negative effects on air quality due to emissions (for parameters such as temp, thermal treatment exhaust flue gas volume, nitrogen dioxide, sulphur dioxide, residual oxygen, opacity, hydrogen chloride, suspended particulates, or other contaminants)?	X		The process and emission control systems will all work together to keep levels well below applicable Ontario air quality guidelines. The Gasplasma® process produces a very clean fuel gas that is composed primarily of hydrogen and carbon dioxide. This fuel will be used in the power generation units. The only air emissions will be the emissions from the power generation engines or turbines. Air Emission Studies will confirm this.
3.2	Cause negative effects from the emission of greenhouse gases (e.g., carbon dioxide, carbon monoxide, methane)?	X		The plant will emit carbon dioxide and carbon monoxide (not a greenhouse gas). However, the net impact to the Ontario carbon footprint will be a reduction in carbon dioxide equivalent emissions (i.e. a negative carbon footprint) because the facility will use existing waste including organic materials that will displace fossil fuel emissions.
3.3	Cause negative effects from the emission of dust or odour?	X		Dust issues will be primarily during construction, and best construction practices will be used to mitigate this impact. During operation, the plant will always operate under negative pressure and emission controls will be used as necessary to minimize odour and dust release to the environment.
3.4	Cause negative effects from the emission of noise?	X		All plant operations are indoors. Relative to the site surroundings, noise levels from the Facility will be minimal and meet regulatory requirements. The Noise Study will confirm this. Most noise concerns will be from truck traffic to the site. Any equipment used for moving material for production purposes would need to meet NPC-300.
3.5	Cause light pollution from trucks or other operational activities at the site?	X		Relative to the site surroundings, this will be insignificant. All plant operations are indoors. Most light pollution concerns will be from truck traffic to the site.
	4. Natural Environment			
4.1	Cause negative effects on rare (vulnerable), threatened or endangered species of flora or fauna or their habitat?		X	No rare (vulnerable), threatened or endangered species of flora or fauna or their habitat are expected to be within the Study Area. The Natural Environment Study will confirm this.
4.2	Cause negative effects on protected natural areas such as, ANSIs, ESAs or other significant natural areas?		X	No protected natural areas such as, ANSIs, ESAs or other significant natural areas within the Study Area.
4.3	Cause negative effects on designated wetlands?		X	No construction is proposed within or near provincially or non-provincially significant wetlands.
4.4	Cause negative effects on wildlife habitat, populations, corridors or movement?		X	No habitat within the vicinity of the Study Area with respect to wildlife populations, corridors or movement. The Natural Environment Study will confirm this.

COMPLETED SCREENING CRITERIA CHECKLIST

Each criterion is based on a question which is prefaced with the phrase:

Might the project….

Criterion		Yes	No	Additional Information
4.5	Cause negative effects on fish or their habitat, spawning, movement or environmental conditions (e.g., water temperature, turbidity, etc.)?		X	While the site is located within proximity to Hamilton Harbour, we do not anticipate a negative effect occurring to fish and fish habitat within the harbor. Surface water will be managed according to appropriate regulations from a quality perspective.
4.6	Cause negative effects on locally important or valued ecosystems or vegetation?		X	No locally important or valued ecosystems or vegetation exist within the Study Area.
4.7	Increase bird hazards within the area that could impact surrounding land uses (e.g., airports)?		X	No airports within 15 km of the Site. All waste materials will be enclosed within Facility buildings. No outdoor storage.
	5. Resources			
5.1	Result in practices inconsistent with waste studies and/or waste diversion targets (e.g., result in final disposal of materials subject to diversion programs)?		X	Will work to maximize landfill diversion from current practices. The Facility will separate recyclable materials and will divert non-recyclable materials from landfills.
5.2	Result in generation of energy that cannot be captured and utilized?		X	All generated energy will be either used on site, or sold to adjoining properties or the Grid.
5.3	Be located a distance from required infrastructure (such as availability to customers, markets and other factors)?		X	Sufficient raw materials can be sourced from properties within Hamilton, and the electrical grid is adjacent to the site for energy output. Minimal infrastructure required.
5.4	Cause negative effects on the use of Canada Land Inventory Class 1-3, specialty crop or locally significant agricultural lands?		X	Site is zoned Industrial, no Canada Land Inventory Class 1-3, specialty crop or locally significant agricultural lands will be utilized or impacted.
5.5	Cause negative effects on existing agricultural production?		X	Site is zoned Industrial, no Canada Land Inventory Class 1-3, specialty crop or locally significant agricultural lands will be utilized or impacted.
	6. Socio-economic			
6.1	Cause negative effects on neighbourhood or community character?		X	Area is currently zoned Industrial. The Facility fits with the surrounding land uses.
6.2	Result in aesthetics impacts (e.g., visual and litter impacts)?		X	All material will be stored indoors.
6.3	Cause negative effects on local businesses, institutions or public facilities?		X	Positive financial impacts during construction and operations phases. Fits with the surrounding land uses.
6.4	Cause negative effects on recreation, cottaging or tourism?		X	Area is currently zoned Industrial, fits with the surrounding land uses.
6.5	Cause negative effects related to increases in the demands on community services and infrastructure?		X	No increase in demand for community services and infrastructure.
6.6	Cause negative effects on the economic base of a municipality or community?		X	Positive financial impacts during construction and operations phases.
6.7	Cause negative effects on local employment and labour supply?		X	Positive financial impacts during construction and operations phases.
6.8	Cause negative effects related to traffic?	X		Traffic will slightly increase as a result of this proposed undertaking and is expected to be

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Each criterion is based on a question which is prefaced with the phrase:

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	Criterion	Yes	No	Additional Information
				acceptable relative to local traffic volumes. A Traffic Study will confirm this.
6.9	Be located within 8 km of an aerodrome/airport reference point?		X	Closest airport is Hamilton Airport, which is approximately 15 km away.
6.10	Interfere with flight paths due to the construction of facilities with height (i.e. stacks)?		X	Stack heights are lower than existing stacks in the area and will not interfere with flight paths.
6.11	Cause negative effects on public health and safety?	X		Negative effects could occur in a major failure of all emission control systems. Sufficient safeguards and backups are inherent to the facility design to eliminate this risk.
	7. Heritage and Culture			
7.1	Cause negative effects on heritage buildings, structures or sites, archaeological sites or areas of archaeological importance, or cultural heritage landscapes?		X	No known heritage buildings, structures or sites, neither areas of archaeological importance nor any cultural landscapes have been identified on the project site. A Stage 1 Archaeological Assessment will be undertaken to confirm this.
7.2	Cause negative effects on scenic or aesthetically pleasing landscapes or views?		X	Area is currently zoned Industrial, fits with the surrounding land uses.
	8. Aboriginal			
8.1	Cause negative effects on land, resources, traditional activities or other interests of Aboriginal communities?		X	Site is not subject to any land claims, however consultation with First Nation/Aboriginal groups will take place throughout the Screening.
	9. Other			
9.1	Result in the creation of non-hazardous waste materials requiring disposal?	X		During construction, waste will be created and disposed of appropriately. During operations, inert residuals may require disposal if an application for the material is not confirmed. The purpose of the operational facility is to use non-hazardous wastes and convert to energy.
9.2	Result in the creation of hazardous waste materials requiring disposal?	X		Hazardous waste materials are not allowed to be received at the Facility and they are not created during normal operations. However, it is possible that during sorting of incoming waste, certain hazardous materials may be found that will require appropriate disposition.
9.3	Cause any other negative environmental effects not covered by the criteria outlined above?		X	No other negative environmental effects are expected.

Brown, Erika

From: Brown, Erika
Sent: Friday, April 04, 2014 3:42 PM
To: 'avahill@sixnations.ca'
Cc: Shoniker, Blair
Subject: Notice of Commencement - Port Fuels & Material Services, Inc. - Energy From Waste Facility ~COR-084692~
Attachments: 084692 Notice of Study Commencement - NEWSPAPER.pdf

Good Afternoon,

Port Fuels & Material Services, Inc. has commenced an Environmental Screening process in accordance with the Waste Management Projects Regulation (Ontario Regulation 101/07) of the *Environmental Assessment Act* in order to permit and develop an Energy-From-Waste (EFW) facility with its Gasplasma® process. The proposed site would be on a parcel of leased land on Pier 15 in the Port of Hamilton, Ontario.

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Please be advised that a formal Notice of Commencement, including a copy of the Draft Screening Criteria Checklist, will be mailed to your attention next week.

Regards,

On behalf of
Blair Shoniker, Senior Environmental Planner
Conestoga-Rovers & Associates (CRA)
1195 Stellar Drive, Unit #1
Newmarket ON L3Y 7B8
Phone: 905 830-5656 Mobile: 647 525-9798
Fax: 905 830-0176

E-Mail: bshoniker@craworld.com

Erika Brown, M.Env.
Environmental Planner
Conestoga-Rovers & Associates (CRA)
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Think before you print

April 15, 2014 Reference No. 084692

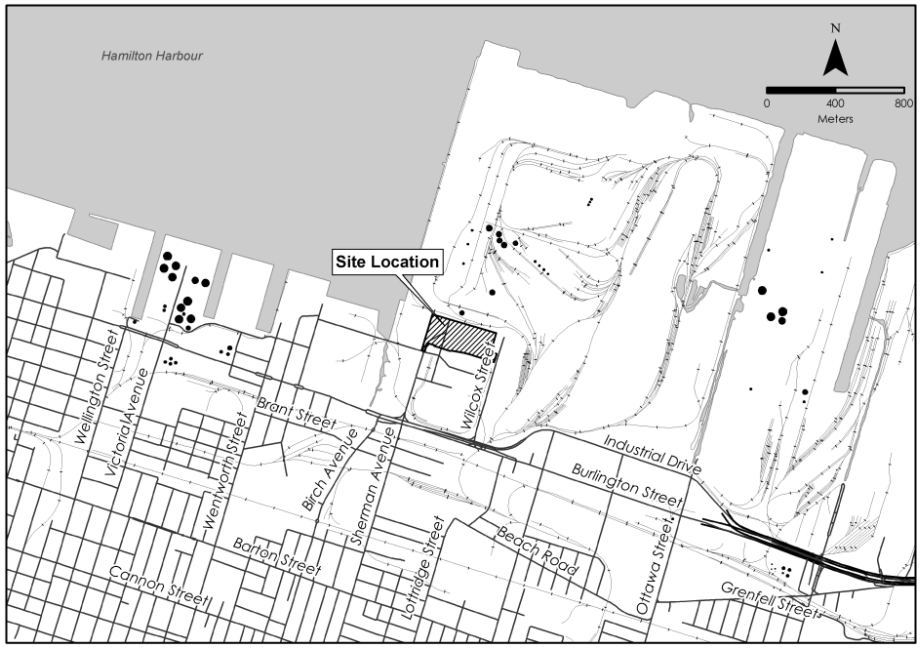
Chief Ava Hill
Six Nations of the Grand River First Nation
1695 Chiefswood Road
PO Box 5000
Ohsweken, ON N0A 1M0

Dear Chief Ava Hill:

Re: Notice of Commencement and Public Open House for an
Environmental Screening under the Ontario Environmental Assessment Act
Port Fuels & Materials Services, Inc. – Energy from Waste Facility

Port Fuels & Materials Services, Inc. has commenced an Environmental Screening process in accordance with the Waste Management Projects Regulation (Ontario Regulation 101/07) of the *Environmental Assessment Act* in order to permit and develop an Energy-From-Waste (EFW) facility with its Gasplasma® process. The proposed site would be on a parcel of leased land on Pier 15 in the Port of Hamilton, Ontario (See **Site Location** below).

The Gasplasma® process is an advanced thermal conversion technology developed to treat wastes and to convert them into synthetic gas (syngas). The core concept of this process is the conversion of waste to a clean syngas that can be used directly for production of heat or for generation of electricity or to substitute natural gas. The Gasplasma® technology has the capability to process a wide variety of waste streams, and for the purposes of this undertaking, the proposed facility would receive municipal (MSW), industrial, commercial & institutional (ICI), construction and demolition waste (C&D), biosolids, biomass, pre-processed tires, and other non-hazardous waste streams. It is anticipated that the proposed facility would receive and process up 190,000 tonnes per year of non-hazardous wastes.



The Environmental Screening Process will be carried out according to the Waste Management Projects Regulation (Ontario Regulation 101/07) of the *Environmental Assessment Act* and the Guide to Environmental Assessment Requirements for Waste Management Projects. The results will be documented in an Environmental Screening Report, which will be released for review.

A Public Open House is scheduled to take place on Thursday, April 17, 2014 from 6:00 p.m. to 9:00 p.m. at the Museum of Steam & Technology, 900 Woodward Ave, Hamilton. The first Open House will discuss the background on the proposed undertaking as well as the Screening process and information on future consultation events.

Consultation with Aboriginal communities is an important element of the Environmental Assessment process. Should you or your Council wish to become involved in the Environmental Assessment process or discuss the project, we would be pleased to work with you to develop and carry out separate events specifically designed to engage your community in meaningful discussions concerning the project.

As per the *Guide to Environmental Assessment Requirements for Waste Management Projects*, Port Fuels & Materials Services, Inc. has prepared the "Draft Screening Criteria Checklist" that is attached to this letter for your information.

Please let us know if you are interested in engaging in discussions and providing input to our project. We will keep you up to date on new developments. Please do not hesitate to ask any questions. For further information, please contact either of the undersigned.

Yours truly,

Robert M. Clark
Chief Operating Officer
RADM, U.S. Navy (Ret.)
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Encl.

COMPLETED SCREENING CRITERIA CHECKLIST

Each criterion is based on a question which is prefaced with the phrase:

Might the project….

	Criterion	Yes	No	Additional Information
	1. Surface and Ground Water			
1.1	Cause negative effects on surface water quality, quantities or flow?	X		The existing property was formerly used as an industrial property and effectively managed stormwater. We do not expect any significant changes to the stormwater management at the site. A Stormwater Study will confirm this.
1.2	Cause negative effects on ground water quality, quantity or movement?		X	As the proposed development has no storage of surface water, there will be no groundwater/surface water interaction.
1.3	Cause significant sedimentation or soil erosion or shoreline or riverbank erosion on or off site?		X	Given the urban setting of this project, no significant sedimentation or soil erosion is anticipated.
1.4	Cause negative effects on surface or ground water from accidental spills or releases (e.g., leachate) to the environment?	X		Materials on-site are limited to fuel, lubricating oils, and other fluids associated with maintaining the equipment. Staff will be routinely trained in spill response and containment techniques, and proper safeguards will be implemented.
	2. Land			
2.1	Cause negative effects on residential, commercial, institutional or other sensitive land uses within 500 metres from the site boundary?	X		Impacts during the construction phase may include impacts related to dust, noise and traffic that can be mitigated. The site is in a controlled area inside the Port of Hamilton, and is surrounded by other industrial operations. On-going traffic impact will be reviewed in the Traffic Impact Study.
2.2	Not be consistent with the Provincial Policy Statement, provincial land use or resource management plans?		X	No effects on provincial land-use or resource management plans are anticipated.
2.3	Be inconsistent with municipal land use policies, plans and zoning bylaws (including municipal setbacks)?		X	Based on the existing zoning ('K' or 'Industrial') for the site, a waste processing facility is a permitted use. Further, the site is surrounded by other industrial properties in the City of Hamilton.
2.4	Use lands not zoned as industrial, heavy industrial or waste disposal?		X	Based on the existing zoning ('K' or 'Industrial') for the site, a waste processing facility is a permitted use. Further, the site is surrounded by other industrial properties in the City of Hamilton.
2.5	Use hazard lands or unstable lands subject to erosion?		X	No hazard lands will be used.
2.6	Cause negative effects related to the remediation of contaminated land?		X	The existing property was formerly used as an industrial site.

COMPLETED SCREENING CRITERIA CHECKLIST

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Might the project….

	Criterion	Yes	No	Additional Information
	3. Air and Noise			
3.1	Cause negative effects on air quality due to emissions (for parameters such as temp, thermal treatment exhaust flue gas volume, nitrogen dioxide, sulphur dioxide, residual oxygen, opacity, hydrogen chloride, suspended particulates, or other contaminants)?	X		The process and emission control systems will all work together to keep levels well below applicable Ontario air quality guidelines. The Gasplasma® process produces a very clean fuel gas that is composed primarily of hydrogen and carbon dioxide. This fuel will be used in the power generation units. The only air emissions will be the emissions from the power generation engines or turbines. Air Emission Studies will confirm this.
3.2	Cause negative effects from the emission of greenhouse gases (e.g., carbon dioxide, carbon monoxide, methane)?	X		The plant will emit carbon dioxide and carbon monoxide (not a greenhouse gas). However, the net impact to the Ontario carbon footprint will be a reduction in carbon dioxide equivalent emissions (i.e. a negative carbon footprint) because the facility will use existing waste including organic materials that will displace fossil fuel emissions.
3.3	Cause negative effects from the emission of dust or odour?	X		Dust issues will be primarily during construction, and best construction practices will be used to mitigate this impact. During operation, the plant will always operate under negative pressure and emission controls will be used as necessary to minimize odour and dust release to the environment.
3.4	Cause negative effects from the emission of noise?	X		All plant operations are indoors. Relative to the site surroundings, noise levels from the Facility will be minimal and meet regulatory requirements. The Noise Study will confirm this. Most noise concerns will be from truck traffic to the site. Any equipment used for moving material for production purposes would need to meet NPC-300.
3.5	Cause light pollution from trucks or other operational activities at the site?	X		Relative to the site surroundings, this will be insignificant. All plant operations are indoors. Most light pollution concerns will be from truck traffic to the site.
	4. Natural Environment			
4.1	Cause negative effects on rare (vulnerable), threatened or endangered species of flora or fauna or their habitat?		X	No rare (vulnerable), threatened or endangered species of flora or fauna or their habitat are expected to be within the Study Area. The Natural Environment Study will confirm this.
4.2	Cause negative effects on protected natural areas such as, ANSIs, ESAs or other significant natural areas?		X	No protected natural areas such as, ANSIs, ESAs or other significant natural areas within the Study Area.
4.3	Cause negative effects on designated wetlands?		X	No construction is proposed within or near provincially or non-provincially significant wetlands.
4.4	Cause negative effects on wildlife habitat, populations, corridors or movement?		X	No habitat within the vicinity of the Study Area with respect to wildlife populations, corridors or movement. The Natural Environment Study will confirm this.

COMPLETED SCREENING CRITERIA CHECKLIST

Each criterion is based on a question which is prefaced with the phrase:

Might the project….

Criterion		Yes	No	Additional Information
4.5	Cause negative effects on fish or their habitat, spawning, movement or environmental conditions (e.g., water temperature, turbidity, etc.)?		X	While the site is located within proximity to Hamilton Harbour, we do not anticipate a negative effect occurring to fish and fish habitat within the harbor. Surface water will be managed according to appropriate regulations from a quality perspective.
4.6	Cause negative effects on locally important or valued ecosystems or vegetation?		X	No locally important or valued ecosystems or vegetation exist within the Study Area.
4.7	Increase bird hazards within the area that could impact surrounding land uses (e.g., airports)?		X	No airports within 15 km of the Site. All waste materials will be enclosed within Facility buildings. No outdoor storage.
	5. Resources			
5.1	Result in practices inconsistent with waste studies and/or waste diversion targets (e.g., result in final disposal of materials subject to diversion programs)?		X	Will work to maximize landfill diversion from current practices. The Facility will separate recyclable materials and will divert non-recyclable materials from landfills.
5.2	Result in generation of energy that cannot be captured and utilized?		X	All generated energy will be either used on site, or sold to adjoining properties or the Grid.
5.3	Be located a distance from required infrastructure (such as availability to customers, markets and other factors)?		X	Sufficient raw materials can be sourced from properties within Hamilton, and the electrical grid is adjacent to the site for energy output. Minimal infrastructure required.
5.4	Cause negative effects on the use of Canada Land Inventory Class 1-3, specialty crop or locally significant agricultural lands?		X	Site is zoned Industrial, no Canada Land Inventory Class 1-3, specialty crop or locally significant agricultural lands will be utilized or impacted.
5.5	Cause negative effects on existing agricultural production?		X	Site is zoned Industrial, no Canada Land Inventory Class 1-3, specialty crop or locally significant agricultural lands will be utilized or impacted.
	6. Socio-economic			
6.1	Cause negative effects on neighbourhood or community character?		X	Area is currently zoned Industrial. The Facility fits with the surrounding land uses.
6.2	Result in aesthetics impacts (e.g., visual and litter impacts)?		X	All material will be stored indoors.
6.3	Cause negative effects on local businesses, institutions or public facilities?		X	Positive financial impacts during construction and operations phases. Fits with the surrounding land uses.
6.4	Cause negative effects on recreation, cottaging or tourism?		X	Area is currently zoned Industrial, fits with the surrounding land uses.
6.5	Cause negative effects related to increases in the demands on community services and infrastructure?		X	No increase in demand for community services and infrastructure.
6.6	Cause negative effects on the economic base of a municipality or community?		X	Positive financial impacts during construction and operations phases.
6.7	Cause negative effects on local employment and labour supply?		X	Positive financial impacts during construction and operations phases.
6.8	Cause negative effects related to traffic?	X		Traffic will slightly increase as a result of this proposed undertaking and is expected to be

COMPLETED SCREENING CRITERIA CHECKLIST

Each criterion is based on a question which is prefaced with the phrase:

Might the project….

	Criterion	Yes	No	Additional Information
				acceptable relative to local traffic volumes. A Traffic Study will confirm this.
6.9	Be located within 8 km of an aerodrome/airport reference point?		X	Closest airport is Hamilton Airport, which is approximately 15 km away.
6.10	Interfere with flight paths due to the construction of facilities with height (i.e. stacks)?		X	Stack heights are lower than existing stacks in the area and will not interfere with flight paths.
6.11	Cause negative effects on public health and safety?	X		Negative effects could occur in a major failure of all emission control systems. Sufficient safeguards and backups are inherent to the facility design to eliminate this risk.
	7. Heritage and Culture			
7.1	Cause negative effects on heritage buildings, structures or sites, archaeological sites or areas of archaeological importance, or cultural heritage landscapes?		X	No known heritage buildings, structures or sites, neither areas of archaeological importance nor any cultural landscapes have been identified on the project site. A Stage 1 Archaeological Assessment will be undertaken to confirm this.
7.2	Cause negative effects on scenic or aesthetically pleasing landscapes or views?		X	Area is currently zoned Industrial, fits with the surrounding land uses.
	8. Aboriginal			
8.1	Cause negative effects on land, resources, traditional activities or other interests of Aboriginal communities?		X	Site is not subject to any land claims, however consultation with First Nation/Aboriginal groups will take place throughout the Screening.
	9. Other			
9.1	Result in the creation of non-hazardous waste materials requiring disposal?	X		During construction, waste will be created and disposed of appropriately. During operations, inert residuals may require disposal if an application for the material is not confirmed. The purpose of the operational facility is to use non-hazardous wastes and convert to energy.
9.2	Result in the creation of hazardous waste materials requiring disposal?	X		Hazardous waste materials are not allowed to be received at the Facility and they are not created during normal operations. However, it is possible that during sorting of incoming waste, certain hazardous materials may be found that will require appropriate disposition.
9.3	Cause any other negative environmental effects not covered by the criteria outlined above?		X	No other negative environmental effects are expected.