Environmental Compliance Approval Application

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General Information and Instructions

General Information:

Information requested in this form is collected under the authority of the Environmental Protection Act (EPA), Ontario Water Resources Act (OWRA) and Environmental Bill of Rights (EBR), and will be used to evaluate applications for Environmental Compliance Approvals (ECAs) issued under Part II.1 of the EPA. This application form should not be used for *mobile PCB destruction facilities* and *land application sites of septage and biosolids*.

For all questions related to preparing or submitting this form or about the Ministry's collection of information related to applying for an ECA, contact:

Environmental Approvals Access and Service Integration Branch

2 St. Clair Ave. West, Floor 12A, Toronto, Ontario M4V 1L5. Telephone outside Toronto 1-800-461-6290 or in Toronto 416-314-8001.

This office can also provide you with copies of application forms and supporting documentation.

Instructions:

- Applicants are responsible for ensuring that they complete the most recent application form.
 Application forms and information about the required supporting documentation and technical requirements are available from the Environmental Approvals Access and Service Integration Branch (the address and phone number are provided in the General Information on this page). As well, you can get this information from your local District Office of the Ministry of the Environment, and on the Resources section of the Ministry of the Environment website at: <u>www.ene.gov.on.ca/environment/en/</u> resources/index.htm.
- 2. A complete application consists of:
 - · a completed and signed application form;
 - all required supporting documents and technical requirements identified in:
 - i. this form,
 - ii. Ministry guidance,
 - iii. the Applications for Environmental Compliance Approvals regulation, and
 - payment of the application fee (in Canadian funds) by certified cheque or money order made payable to the Minister of Finance, or credit card payment (for payments up to \$10,000). For *Transfer of Review*, make your cheque or money order payable to the appropriate municipality.

The Ministry may return incomplete applications to the applicant. The Director may require additional information of any application initially accepted as complete.

Clear Form

- 3. Submit the complete application as follows:
 - One (1) paper copy (unless your application is a *Transfer of Review*), one (1) electronic copy and the fee to the **Director**, **Environmental Approvals** Access and Service Integration Branch at the address provided in the General Information on this page.
 - If your application is a *Transfer of Review*, you must submit two (2) copies of the completed application and the fee to the designated municipal authority.
- 4. You must also send a copy of the application without the fee to the local Ministry District Office that has jurisdiction over the area where the facilities are located. DO NOT send payment to the District Office.
 - To locate the appropriate local Ministry District Office, visit the Ministry of the Environment website at: <u>www.ene.gov.on.ca/environment/en/about/</u> regional_district_offices/index.htm.
- 5. For Waste Disposal Sites you must also send a copy of the application without the fee to the Clerk's office of the local municipality (both upper and lower tier) in which the facility/proposed facility Is located unless the application is for a revocation or an amendment that is environmentally insignificant or the applicant is a

MINISTRY OF ENVIRONMENT

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municipality. DO NOT send any payment information to the municipality.

Information collected by the Ministry of the Environment is subject to the Freedom of Information and Protection of Privacy Act (FIPPA). If you are of the view that any part of application is confidential on the grounds that such information constitutes a trade secret or scientific, technical, commercial, financial or labour relations information, please make this known now. Otherwise, the Ministry may make the information available to the public without further notice to you.

It is an offence under the EPA and OWRA to provide false or misleading information in this application and/ or accompanying documents.

The Electronic Form Smart Features

The electronic version of this form incorporates several features to assist you with completing your application.

The electronic form will highlight required information with red and green indicators. Red means that the information is required before the section is complete.

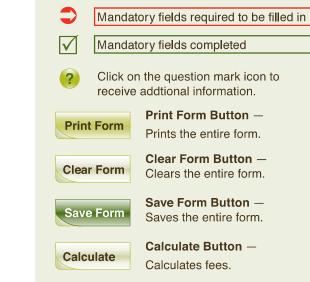
The form will also calculate certain values based on the information you enter and will assist you in ensuring that all required information is included with your application. You can save a copy of this form that includes any information you have entered.

These features are available in Adobe Reader version 8 or above. You can download a copy from the website at: http://get.adobe.com/reader/otherversions/.

Smart Features Legend:

These active buttons appear throughout the Application form to provide additional support.

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Ministry of the Environment Public Information Centre: Telephone: 416-325-4000 Toll-free: 1-800-565-4923 E-mail: picemail.moe@ontario.ca www.Ontario.ca/Environment

Application Summary

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	For Off	ice Use Only	
Reference Number	Payment Received \$	Date (yyyy/mm/dd)	Initials

Application Summary

🗹 Applicant Name (

Waste Management of Canada Corporation

Project Name

West Carleton Environmental Centre, Ottawa - New Landfill Footprint

🏹 Project Description Executive Summary 🛛 🕐

Waste Management of Canada Corporation is requesting amendment for approval of a new landfill footprint at the West Carleton Environmental Centre in Ottawa following approval of Environmental Assessment process with the "Notice of Approval to Proceed with the Undertaking" on August 28, 2013.

This proposal is for 37.8 ha, 6,500,000 cubic metres capacity landfill expansion within 232.9 ha site. The site is to receive up to 400,000 tonnes/year of solid non-hazardous waste plus special waste for daily cover from the Province of Ontario.

The WCEC site is located on Parts of Lots 2, 3 and 4, Concession 2 and Parts of Lots 3, 4 and 5, Concession 3, in the former Township of Huntley, formerly the Township of West Carleton, now the City of Ottawa, near Carp Road and Highway 417. The existing Ottawa Waste Management Facility (WMF) operates under Amended Provisional Certificate of Approval No. A461002, dated September 8, 2011. The existing landfill occupies area of 34.46 ha and the Closed South Cell 8.71 ha.

The landfill design is in compliance with the requirements of Ontario Regulation 232/98 and includes the generic double liner system. The engineered systems include leachate collection and treatment with effluent discharge to the City of Ottawa's sewer, landfill gas collection and destruction system, stormwater management system with no discharge to surface water (groundwater recharge) and other ancillary facilities including road network. The site will continue to be used for waste processing, diversion and waste transfer.

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Required Information ?

	Completed (yes or r	no)	
Project Name & Description	Yes	Fee Summary: 🛛	
Section 1: Applicant Information	Yes	Administrative Processing	\$ 200.00
Section 2: Project Information	Yes	Review of EPA s. 9 activities	\$ 0.00
Section 3: Regulatory Requirements	Yes	Review of EPA s. 27 activities	\$ 45,000.00
Section 4: Site Information	Yes	Review of OWRA s. 53 activities	\$ 5,000.00
Section 5: Facility Information	Yes	Total Fee	\$ 50,200.00
Section 6: Supporting Documentation	Yes	Calculate	
Section 7: Payment Information	Yes		

Application Status Form Complete

The Ministry may request additional fees upon review of this application.

If you are submitting this form in print version only and are not using the smart calculation feature, please attach the fee calculation separately.

Supplemental Application Information

See help text on required information for this section.

This application is also submitted to the MOE Ottawa District Office.

Pre-application meeting with MOE was held to discuss and notify them about minor variances to the site design as compared to the Environmental Assessment conceptual design.

Applicant Information Contents | General Information and Instructions | Application Summary | **1 Applicant Information** | 2 Project Information | 3 Regulatory Requirements 4 Site Information | 5 Facility Information | 6 Supporting Documentation and Technical Requirements | 7 Payment Information

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✓ 1.1 Applicant Information ??

Applicant Name (legal	name of individual or organization as evidenced by legal documents)	Business Number	
Waste Managemer	nt of Canada Corporation	876294844	
Business Name 🔀 s	ame as Applicant Name	Business Website Address:	
Waste Management of Canada Corporation		www.wmcanada.com	
Applicant Type:		Primary North American Industry Classification System (NAICS) Code 🛛 🔗	
Corporation	O Federal Government	566210	
🔘 Individual	O Municipal Government	Other NAICS codes (select all that apply) Separate list attached? O Yes 🔘	No
🔘 Partnership	O Provincial Government		
Sole Proprietor	Other (describe):		
Business Activity Des	cription		

✓ 1.2 Applicant Physical Address

Civic Address – Street Information (in	ncludes stree	et number, name, type and c	lirection)		Unit Identifier (suite or	unit number)	
2301 Carp Road, Ottawa							
Survey Address							
Lot	Concessior	1		Part	Ref	erence Plan	
Municipality/Unorganized Township o	or Territory	Upper Tier/District	Province/Sta	te	Country		Postal Code/ZIP Code
City of Ottawa		City of Ottawa	Ontario		Canada		K0A 1L0
Telephone Number (include area code a	& ext.)	Fax Number (include	e area code)	Mobile Number (include	area code)	E-mail Add	dress
613-831-3565 ex	xt.	613-831-8928		519-381-6363		rcleland	@wm.com

			Geo Reference (required)	?		
Description of location	Map Datum	Zone	Accuracy Estimate	Geo-Referencing Method	UTM Easting	UTM Northing
Southwest corner of property	NAD83	18	10 m	UTM	423785.00	5013930.00
Physical location of front door or main entrance	NAD83	18	10 m	UTM	424452.00	5015163.00

	1	Applicant Information						ory Requirements Save Form
\checkmark	1.3	Applicant Maili	ing Address (?				<i>*</i>
	Same	e as Applicant Physical A	ddress? 🔘 Yes (O No				
	Civic	Address – Street Informa	Mailing Address ? sical Address? Yes ONO nformation (civic numbering and street information includes street number, name, type and direction) Unit Identifier (suite or unit number) tawa Delivery Identifier Postal Station					
	230	1 Carp Road, Ottawa						
	Deliv	ery Designator	Delive	ry Identifier	Postal Station		*	
		C						
	Muni	cipality/Unorganized Tow	nship or Territory	Province/State	Country	F	Postal Code/ZIP Code	
	City	of Ottawa		Ontario	Canada		KOA 1LO	

1.4 Statement of the Applicant ?

I am authorized to prepare and submit this application and to make this certification. I have reviewed the complete application and I have made all inquiries that are necessary to declare to the best of my knowledge, information and belief:

- The information contained in this application is complete and accurate.
- The Technical Contact(s) identified in this application has/have been authorized to prepare certain technical material, and act on behalf of the applicant to discuss this application with the Ministry of the Environment and to provide additional information about this application to the Ministry on request.
- The information provided to the Technical Contact(s) in relation to this application is complete and accurate.

Name of Signing Authority (please print)				Title
Reid Cleland				Director of Operations - Eastern Canada Landfills
Telephone Number (include area code & ext.)			Fax Number (include area code)	Mobile Number (include area code)
519-849-5810	ext.	229	519-849-6816	519-381-6363
E-mail Address		Signat	ure	Date (yyyy/mm/dd)
rcleland@wm.com			la lata	2014/08/20

1.5 Statement of the Municipality \Box N/A ?

Signature

I, the undersigned hereby declare on behalf of the Municipality, that the Municipality has no objection to the construction of the works in the Municipality.

Name and Title (please print)			Name of Municipality

Date (yyyy/mm/dd)

,		Projec Inform					-		icant Information I 2 Project Informatic chnical Requirements I 7 Payment Infor		quirements
									Print Form Clea	Form	Save Form
	 2.1 Reason for Application New ECA Administrative amendment to existing ECA Application for renewal of limited operational flexibility Consolidation of existing ECAs Are you adding a new project type to your site or a new municipal waste category/class code to your waste management systems or a new sewage facility type? Yes 										
	Is this for <i>Transfer of Review</i> ? O Yes No Vector No Ve										
	Yes	N/A		Limited Operational Flexibility?	Pilot Project?		Yes	N/A		Limited Operational Flexibility?	Pilot Project?
	0	۲	Air – Stationary				۲	O	Sewage – Industrial		
	0	۲	Air – Mobile				O	۲	Sewage – Municipal		
	0	٢	Noise				0	۲	Sewage – Private		
	O	۲	Vibration				O	۲	Waste Management System – Gene Waste Management System	al N/A	
	۲	O	Waste Disposal Site – Landfill site	N/A			O	۲	Waste Management System – Haule Sewage (Septage)	d N/A	
	۲	0	Waste Disposal Site – Transfer site				0	۲	Waste Management System – Soil Conditioner for transport to a site for Application on Land	N/A	
	۲	O	Waste Disposal Site – Processing site				0	۲	Waste Management System – Mobil Waste Processing	N/A	
	0	۲	Waste Disposal Site – Composting site	N/A			0	٢	Cleanup of contaminated sites – Mob	le N/A	
	O	۲	Waste Disposal Site – Thermal Treatment site	N/A			0	۲	Cleanup of contaminated sites – Site specific	N/A	

2 Project Information		Information and Instructions I App 5 Facility Information I 6 Supportir			•	ment In	• •	Requirements Save Form
2.3 Approval Ir	nformation 🤗							
Application initiated by	:							
Applicant	S. 20.18 Order (attach copy)	Condition of existing approval	9	rovincial Officer Irder (attach copy)	Inspection Report (attach copy)	\bigcirc	Other (specify):	
		approvar	0					
Current Environmental Separate list attached?	<u> </u>	that may be changed or amende	əd by tl	his application:	N/A			
Environmental Compli	ance Approval Number	Date of Issuance (yyyy/mm/dd)	Environmental	l Compliance Approval Num	nber	Date of Issuance	e (yyyy/mm/dd)
A461002		2011/09/08						

Proposed Environmental Compliance Approvals related to this project: XN/A

Separate list attached? O Yes O No

Project type	Ministry Reference Number (if applicable)	Have submitted	Have not submitted
		0	0
		0	0
		0	0
		0	0

✓ 2.4 Other Approval/Permits for Facility □ N/A ??

Separate list attached? O Yes O No

List all other instruments (approvals or permits) issued by the Ministry of the Environment or applied for under the Environmental Protection Act, Environmental Assessment Act, Ontario Water Resources Act and Safe Drinking Water Act, 2002 and any Environmental Activity and Sector Registrations that are relevant to this application.

Instrument Type	Instrument Number	Approval or Application Date (yyyy/mm/dd)	Instrument Type	Instrument Number	Approval or Application Date (yyyy/mm/dd)
ECA-Waste	A461009	1992/02/10			
PTTW	8737-7FZNB4	2008/07/14			
ECA-Air	7816-7C9JMR	2008/03/07			
ECA-Air	7025-7F4PN5	2008/10/01			
ECA-Air	4117-8EHQE7	2012/02/16			



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🔽 2.5 Technical Contacts 🤗

Technical Contact 1

Area of Responsibility (check all that apply)	× Waste	
Name of Technical Contact	Company	
Peter Brodzikowski	WSP Canada Inc.	
Telephone Number (include area code & ext.) Mobile Number (include area code)	Fax Number (include area code)	E-mail Address
519-376-7612 ext. 13251 519-379-6106	519-376-8008	peter.brodzikowski@wspgroup.com
Address Information:	4	
Same as Applicant Mailing Address? O Yes O No (If no, please provide technical cor	ntact address information below.)	
Civic Address - Street Information (includes street number, name, type and direction)		Unit Identifier (suite or unit number)
1450 1st Avenue West		Suite 101
Delivery Designator Delivery Identifier	Postal Station	
Municipality/Unorganized Township or Territory Province/State	Country	Postal Code/ZIP Code
Owen Sound Ontario	Canada	N4K 6W2

I have been authorized by the applicant to prepare the technical materials for the area(s) of responsibility identified above that are included in the application. I have reviewed those technical materials and I have made all inquiries that are necessary to declare to the best of my knowledge, information and belief:

- The technical materials contained in this application in respect of the area(s) of responsibility identified above are complete and accurate.
- I have the relevant education and experience necessary to provide this certification.

Signature	Date (yyyy/mm/dd)
P. Bradyinsish	2014/08/20

		ocumentation and Technical			A DECK OF A
			Print Form	Clear Form	Save Fo
Technical Contact 2					
Area of Responsibility (check all that apply)	ir 🗌 Noise/Vibration 🔀 Sewage	Waste			
Name of Technical Contact		Company			
Larry Fedec		AECOM			
Telephone Number (include area code & ext.) Mobi	le Number (include area code)				
	-571-2130	Fax Number (include area c 905-886-9494	ode)	E-mail Address	
		303-000-3434		larry.fedec@aecom.com	n
Address Information: (?)	0				
Same as Applicant Mailing Address? O Yes	No (if no, please provide technical control	ntact address information below.			
owic Address - Street Information (includes street n	umber, name, type and direction)			entifier (suite or unit number)	
105 Commerce Valley Drive West			7th F		
Delivery Designator Deliv	ery Identifier	Postal Station			
Municipality/Unorganized Township or Territory	Province/State	Country			
Markham	Ontario	Country		Postal Code/ZIP Code	
	Ontario	Canada		L3T 7W3	

- ٠
- The technical materials contained in this application in respect of the area(s) of responsibility identified above are complete and accurate.
- I have the relevant education and experience necessary to provide this certification. 1

Signature	Date (yyyy/mm/dd)
f and fence	2014/08/20

1		nformation and Instructions I Applicatio 5 Facility Information I 6 Supporting Doc		I 2 Project Information I 3 Regulatory F ients I 7 Payment Information	Requirements
4			Print Fo	rm Clear Form	Save Form
	Fechnical Contact 3				
	Area of Responsibility (check all that apply)	Noise/Vibration Sewage	X Waste		
I	Name of Technical Contact		Company		
	David Harding		WESA, a Division of BluMetric	Environmental Inc.	
-	Felephone Number (include area code & ext.) Mobile	Number (include area code)	Fax Number (include area code)	E-mail Address	
	613-839-3053 ext. 238 613-	290-4863	613-839-5376	dharding@wesa.ca	
	Address Information: ? Same as Applicant Mailing Address? O Yes (Civic Address – Street Information (includes street nu	No (If no, please provide technical cont	tact address information below.)	Unit Identifier (suite or unit number)	
1.00	3108 Carp Road			P.O. Box 430	
		ry Identifier	Postal Station		
	/unicipality/Unorganized Township or Territory	Province/State	Country	Postal Code/ZIP Code	
	Carp	Ontario	Canada	KOA 1L0	

I have been authorized by the applicant to prepare the technical materials for the area(s) of responsibility identified above that are included in the application. I have reviewed those technical materials and I have made all inquiries that are necessary to declare to the best of my knowledge, information and belief:

- The technical materials contained in this application in respect of the area(s) of responsibility identified above are complete and accurate.
- · I have the relevant education and experience necessary to provide this certification.

Signature	Date (yyyy/mm/dd)
and Studm	2014/08/20

		on Summary I 1 Applicant Information I 2 Proje cumentation and Technical Requirements I 7 F	
Technical Contact 4			
Area of Responsibility (check all that apply)	r 🗌 Noise/Vibration 🔲 Sewage	U Waste	
Name of Technical Contact	2	Company	
Brad Bergeron		RWDI Air Inc.	
Telephone Number (include area code & ext.) Mobil	e Number (include area code)	Fax Number (include area code)	E-mail Address
519-823-1311 ext. 2428 519	-817-9888	519-823-1316	brad.bergeron@rwdi.com
Address Information: Same as Applicant Mailing Address? Civic Address – Street Information (includes street in	No (If no, please provide technical con umber, name, type and direction)		ntifier (suite or unit number)
650 Woodlawn Road West			
Delivery Designator Deliv	ery Identifier	Postal Station	
Municipality/Unorganized Township or Territory	Province/State	Country	Postal Code/ZIP Code

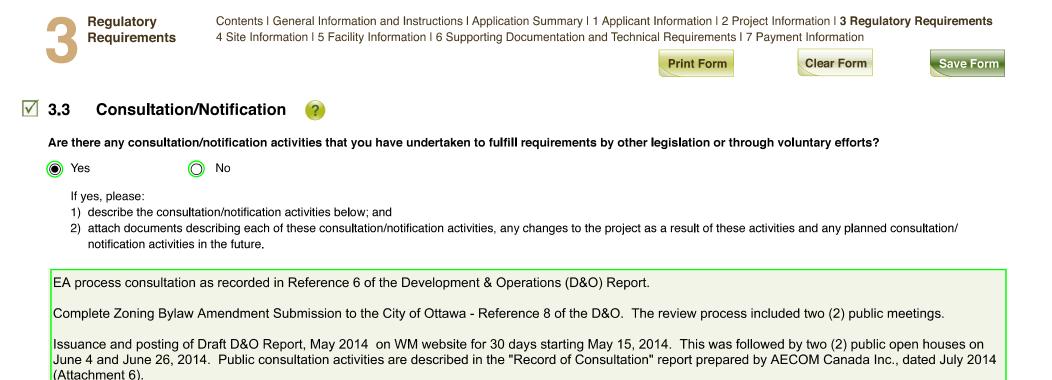
I have been authorized by the applicant to prepare the technical materials for the area(s) of responsibility identified above that are included in the application. I have reviewed those technical materials and I have made all inquiries that are necessary to declare to the best of my knowledge, information and belief:

• The technical materials contained in this application in respect of the area(s) of responsibility identified above are complete and accurate.

• I have the relevant education and experience necessary to provide this certification.

Signature		Date (yyyy/mm/dd)
15	~13	2014/08/08

6	Regulatory		ormation and Instructions I Applicatio				y Requirements
	Requirements	4 Site mormation 1 S F	acility Information I 6 Supporting Do	cumentation and h	Print Form	Clear Form	Save Form
lf ye	his a proposal for a es, is this proposal es, please check one This proposal h This proposal is	s for an emergency situation. s for an amendment to or revo	er the EBR? Yes No No No No Supporting information.) No No No No No No No No No N	I Compliance Appro	oval that is not environmentall		, s. 22 (3).)
	ne proposed undert es, please check one The undertaking Section Declaration	aking subject to the require of the following: g has fulfilled the requirement /Exemption Order Number n, Declaration Order or Exemption	s of the EAA through an exemption of Ontario Reg of Order does not refer directly to this un	dertaking, please pro		explain why it applies to this	or s facility.
	Name of Class Schedule/Group If applicable, plea Was the un O The proposed u	EA: p/Category (if applicable): use submit a copy of the proof of a dertaking subject of a Part II of undertaking has fulfilled all of t of an Environmental Screeni	quirements of the EAA through the completion (for example, Notice of Com Order request(s)? O Yes O the requirements for the EAA throug ng Process pursuant to O. Reg. 10 ng Process pursuant to O. Reg. 11	pletion). No If yes, please gh: 1/07 of the EAA	e submit a copy of the Directo	r's or Minister's decision	letter.
	If an appeal was completion Was the un The proposed u	s made of the Director's decis of an Environmental Screenin ndertaking subject of an objec	quirements of the EAA through the	he Minister's decisi 1/08 of the EAA es, please submit a	on letter. copy of the Minister's decisio	n letter.	



Zoning By-Law Amendment was approved by the City of Ottawa Council on July 9, 2014. Refer to Attachment 4.



V

or main entrance

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4.1 Site Address or Storage Location V

Will the vehicles or equipment be stored at more than one location? O Yes O No

(If yes, please enter all vehicle or equipment storage locations below and attach separate list, as necessary.)

Same as Applicant Physical Address? Yes O No

Primary Civic Address - Street Information (includes street number, name, type and direction) Unit Identifier (suite or unit number)

?

2301 Carp Road, Ottawa										
Additional Civic Addresses Separate list attached? 🔘 Yes 🔘 No				Unit Identifier (suite or unit number)						
Primary Survey Address										
Lot		Concessi	on		Part			Reference Plan		
Additional Survey Addresses			\smile							
Lot					Part			Reference Plan	Reference Plan	
Parts of Lots 2, 3 and 4		2								
Parts of Lots 3, 4 and 5		3								
Municipality/Unorganized Town	nship or Territo	ry	Upper Tier/District		Province/State	е	Country	Posta	al Code/ZIP Code	
City of Ottawa			City of Ottawa		Ontario		Canada	K0/	\ 1L0	
Non-address Information (inclu	des any addition	al informati	on to clarify the physical loca	ation)						
Refer to D&O Report, App	endix 1-B and	1 1-C for	legal survey plan and I	egal site o	description					
Same as Applicant Physical C	Geo Reference	? 🔘 Ye	es 🔘 No	Geo Refer	ence (required)	?				
Description of location	Map Da	tum	Zone	Accura	acy Estimate	Geo-Refe	erencing Method	UTM Easting	UTM Northing	
Southwest corner of property	NAD83		18	10 m		UTM		423785.00	5013930.00	
Physical location of front door	NAD83		18	10 m		UTM		424452.00	5015163.00	

Site Contents | General Information and Instructions | Application Summary | 1 Applicant Information | 2 Project Information | 3 Regulatory Requirements Information 4 Site Information | 5 Facility Information | 6 Supporting Documentation and Technical Requirements | 7 Payment Information **Print Form** Save Form Clear Form 4.2 Site or Storage Location Information ? V Site Name Days and Hours of Operation Ministry of the Environment District Office 7 a.m. to 7 p.m. - Mon. - Fri., 7 a.m. - 6 p.m. Sat. Ottawa District Office West Carleton Environmental Centre, Ottawa Is the site (property) that is the subject of this application owned by the applicant? If no, please include the owner's name, address and a signed document indicating that the applicant has the authority to install and operate the proposed Yes No activity, or store vehicles or equipment on the land. Is the applicant the operating authority of the site that is the subject of this application? 🔿 No Yes If no, please include the operating authority name, address and phone number. Is the site located in an area of development control as defined by the Niagara Escarpment Planning & Development Act (NEPDA)? 🔘 No Yes If yes, please attach a copy of the NEPDA permit for proposed activity. Is the site within an area covered by the Oak Ridges Moraine Conservation Plan? No No Yes If yes, please attach proof of municipal planning approval for the proposed activity/work (for example, zoning by-law, letter from municipality, etc.).

4.3 Site Zoning and Classification



Current Land Use		Official Plan D	Designation		Current Zoning (Please attach zoning map, if available.)		
Agricultural, Forest, Inc	lustrial	Carp Road	Corridor Rural Employr	nent Area	Industrial (RH), Mineral Extraction (ME), Rural (RU)		
Adjacent Land Use (select	all that apply)			Adjacent Land Zonin	g		
X Industrial	Commercial	X Residential		Mineral Extraction	(ME), Rural (RU), Industrial (RH, RG)		
X Agricultural	Recreational	X Other (specify):	Vacant, Forest, Quarry	1			

Does the current zoning permit the proposed activity?

O No Yes

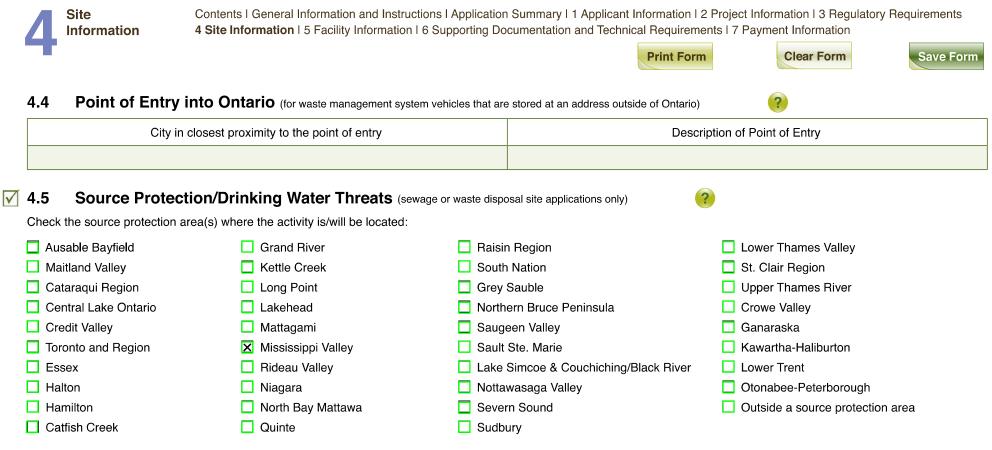
Yes

Does the applicant have correspondence from the municipality to confirm that the current zoning of the property permits the proposed use?

O No If yes, please attach correspondence from the municipality.

Does the official plan designation support the proposed activity?





Is the proposed activity located or planned to be located in a vulnerable area identified in a local assessment report source protection plan under the Clean Water Act, 2006?



If yes, what is/are the vulnerable area(s)/zone(s)?

- Wellhead Protection Areas
- Surface Water Intake Protection Zones
- I Highly Vulnerable Aquifers I Significant Groundwater Recharge Areas

Is the activity being applied for identified as a significant drinking water threat in the assessment report for the local source protection area?



	Λ	SiteContents General Information and Instructions Application Summary 1 Applicant Information 2 Project Information 3 Regulatory RequirementsInformation4 Site Information 5 Facility Information 6 Supporting Documentation and Technical Requirements 7 Payment Information							
							Print Form	Clear Form	Save Form
\checkmark	4.6	Receiver of E	Effluent Discharg	e (sewage applications or	nly)	?			
	Interm	ediate Receiver Nam	е			Watershed Name			
	N/A					N/A			
	Has th	e facility received loc	es, please include a cop	Other (specify):	ater managemer				
	Will th	e proposed activity di	scharge sewage to any	of the following critical re	eceivers?				
	🗌 La	ke Simcoe	Rideau River	Detroit River	🗌 Othe	r (specify):			
	Gro Gro	eat Lakes	Rouge River	Bay of Quinte					
		-	ceiver? OYes O	No directors? 〇 Yes 〇)No Ify	es, please attach a	a copy of the Director's appro	oval.	



5.1 Air

IF YOUR APPLICATION DOES NOT HAVE AIR EMISSIONS PLEASE PROCEED TO SECTION 5.2

5.1.1 Summary of Equipment that Discharges Contaminants to the Air 🤗

?

(√)	Description	Number of Pieces of Equipment
	Combustion equipment that uses natural gas, propane, no. 2 oil, landfill gas or sewage treatment gas for fuel for the purpose of providing comfort heating or emergency power, producing hot water or steam, or heating material in a system that does not discharge to the atmosphere (Total Heat input of all units ≤ 50,000,000 kJ/hr)	N/A
	Storage tanks	N/A
	Welding operations that use a maximum of 10 kilograms of welding rod per hour	N/A
	Combustion equipment that uses waste-derived fuel for the purpose of providing comfort heating, burning \leq 15 litres per hour	
	Heat cleaning ovens used for parts cleaning and associated parts washers or degreasing equipment, other than solvent degreasing equipment	
	Cooling towers	
	Equipment used to control emissions of contaminants, other than a fume incinerator	
	Laboratory fume hoods	
	Paint spray booths and associated equipment that have a design capacity of up to 8 litres per hour of paint	
	Grain dryers	
	Any other equipment not listed above with a flow rate of less than or equal to 1.5 m ³ per second	
	Any other equipment not listed above with a flow rate of greater than 1.5 m ³ per second	
	Equipment that is subject to an Environmental Compliance Approval, and from which there is no proposed increase in the discharge of any contaminant that was previously reviewed by the Director.	N/A

5.1.2 Emission Summary and Dispersion Modelling (ESDM) Report

Is the review of an existing, approved ESDM required as part of this proposed application? O Yes O No

If yes, identify the number of emission sources described in the existing ESDM Report that emit contaminants in common with the sources forming the subject of the application

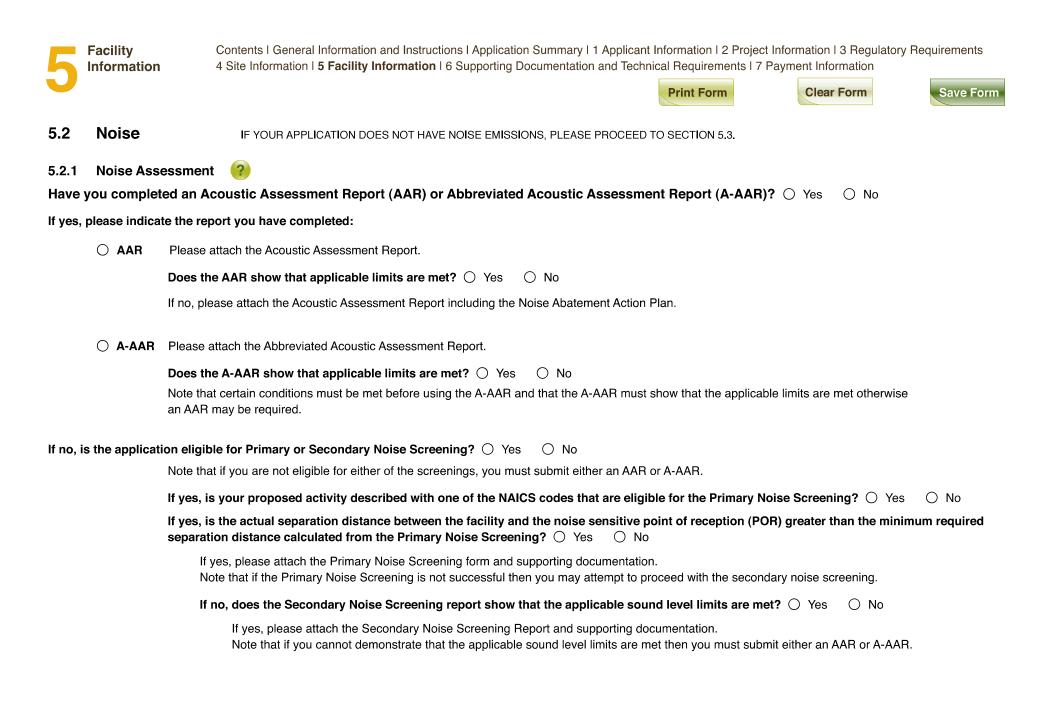
?

(if none, enter zero).

Have all of these emission sources been described in an ESDM Report that was previously reviewed as part of an application for an existing Environmental Compliance Approval? O Yes O No

-	General Information and Instructions I Application Summary I 1 Applicant Information I 2 Project Information I 3 Regulatory Requirements rmation I 5 Facility Information I 6 Supporting Documentation and Technical Requirements I 7 Payment Information
J	Print Form Clear Form Save Form
5.1.3 O. Reg. 419/05 Requirement	ts ?
Which of the following sections of O. R	eg. 419/05 applies to the facility?
S.19 (Schedule 2) S.20 (Schedul	e 3) 🗌 Does not apply. Please indicate reason:
Has an instrument under O. Reg. 419/0	5 been issued? O Yes O No
If yes, what type(s) of instruments (includi	ng any notices, orders or approvals) has (have) been issued? (select all that apply)
ss. 4(2) Adjacent Properties	Ss. 20(4) Speed-up Request
Ss. 7(1) Specified Dispersion Models	Ss. 20(5) Speed-up Order
Ss. 8(2) Negligible Sources	S. 35 Site-specific Standard
ss. 10(2) Operating Conditions	ss. 35(14) Site-specific Standard Order
Ss. 11(2) Refined Emission Rates	ss. 39(3) Technical Standard Registration (Industry Standard)
Ss. 13.1 Value of Dispersion Modeling	Parameters 🛛 ss. 39(4) Technical Standard Registration (Equipment Standard)
ss. 13(1) Meteorological Data	
Ss. 14(6) Area of Modelling Coverage	
Other (list all that have been issued):	
Is an instrument under O. Reg. 419/05 I	peing requested as part of this application? O Yes O No
If yes, what type(s) of notice, order or app	roval is (are) being requested?
Ss. 7(1) Specified Dispersion Models	ss. 14(6) Area of Modelling Coverage
Ss. 8(2) Negligible Sources	☐ ss. 20(4) Speed-up Request
ss. 10(2) Operating Conditions	s. 32 Request for a Site-specific Standard Order
Ss. 11(2) Refined Emission Rates	ss. 39(1)(a) Application for Technical Standard Registration (Industry Standard)
🗌 ss. 13(1) Meteorological Data	ss. 39(1)(b) Application for Technical Standard Registration (Equipment Standard).
Other (list all that have been requested):	
Please attach the form(s) requesting the r	notice(s) and/or order(s) and any additional supporting information.
Has an s.30 Upper Risk Threshold (Scheo	dule 6) been exceeded? If yes, please include additional supporting information. O Yes O No
Is the facility located in a multi-tenant build	ding? If yes, additional information may be requested. \bigcirc Yes \bigcirc No

Are all of the contaminants to which the application relates represented in the Ministry of the Environment publication titled "Summary of Standards and Guidelines to support Ontario Regulation 419: Air Pollution – Local Air Quality" or have they been screened out based on the publication titled "Jurisdictional Screening Level (JSL) List, A Screening Tool for Ontario Regulation 419: Air Pollution – Local Air Quality"? (If no, please attach Supporting Information for a Maximum Ground Level Concentration Acceptability Request for Compounds with no Ministry POI Limit – Supplement to Application for Approval, EPA S.9 (PIBS 4872)). O Yes O No



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5.2.2 Equipment Subject to Noise Review

?

(√)	Description	Number of Pieces of Equipment
	Arc Furnaces	
	Asphalt Plants	
	Blow-down Devices	
	Co-generation Facilities	
	Crushing Operations	
	Flares	
	Gas Turbines	
	Pressure Blowers or Large Induced Draft Fans (flow rate > 47m³/second or static pressure > 1.25 kilopascals)	
	Any other equipment not listed above that has not previously been reviewed by the Director in connection with an application for an Environmental Compliance Approval with respect to the facility	
	Any other equipment not listed above that is identical to equipment for which a noise assessment was previously reviewed by the Director in connection with an application for an Environmental Compliance Approval with respect to the facility	

5	Facility Information					• • • •	nt Information I 2 Project Info nical Requirements I 7 Pay	• •	Requirements
J							Print Form	Clear Form	Save Form
√ 5.3	Sewage Works	s 🥐	IF YOUR A	PPLICATION DOE	S NOT CONTAIN	SEWAGE WORKS PLE	ASE PROCEED TO SECTION	15.4	
√ 5.3.1	Facility Type – Se	wage Works	?						
Selec	t the type of facility that	at is the subject o	of the app	lication (select al	that apply).				
🗌 Se	ewage Treatment Plant	(STP)		Further informa	tion:				
				Primary			On-site system		
				Secondary			Lagoons (check all the	at apply below)	
				Tertiary			Septage		
				Receives se	ptage		🗌 Municipal		
				Constructed	/Engineered We	tlands	Other (specify):		
	Municipal or private	facility		Please indicate	the maximum de	esign capacity of the r	nunicipal or private sewage	e treatment plant:	
	Category: 🔿 New	$\bigcirc 1 \bigcirc 2 \bigcirc 3$	○ 4	$\bigcirc \le 4,550 \text{ m}^{3/6}$	day	○ > 4,550 m³/day			
	Facility for the treat	nent of leachate							
	Category: 🔿 New	○1 ○2 ○3	○ 4						
	Facility for the treat	nent of industrial p	rocess wa	stewater					
	Category: 🔿 New	$\bigcirc 1 \bigcirc 2 \bigcirc 3$	○ 4						
	E Facility for the dispos	sal of non-contact	cooling w	ater					
	Subsurface disposal	l		Please indicate	the design capa	city of the subsurface	disposal:		
				$\bigcirc \le 15 \text{ m}^3/\text{day}$		\bigcirc > 15 m ³ /day and	< 50 m³/day O > 50 m	³ /day	
🔀 Si	ormwater Managemen	t Facility							
С	ategory: 🔘 New 🔘 1 (02 03 04		🔀 Wet Pond	Dry Pond	X Other (specify):	Infiltration Basins		
For th	e following, you must co	molete and attack	the releva	ant sections of th	e nine data form				
	orm Sewers	Ditches							
	ombined Sewers	Forcemains							
L Si	anitary Sewers	Pumping Static	n						
ls a ⊦	ydrogeological Assessm	nent required? 🧿	Yes 🔘	No (If yes, plea	ase attach the hy	drogeological assess	ment.)		
	eview of effluent criteria a yes, please attach the fir						s required? 🚫 Yes 🌘	No	
	eview of effluent criteria a yes, please attach the fir		•				nate treatment plant require	ed? 🔘 Yes 🔘 No	

	5	Facility Information		eneral Information and Instructions I Application Summary I 1 Applica ation I 5 Facility Information I 6 Supporting Documentation and Tec	-	
	J				Print Form	r Form
\checkmark	5.3.2	Servicing	?			
	The w	orks will provi	de sewage servicing	for (select all that apply):		
	🗌 Re	sidential	 Subdivision Condominium Institutional Other (specify): 	Is there a Municipal Responsibility Agreement in place?		
	🗌 Co	mmercial	 Hotel, Motel, Inn Resort Restaurant 	 Campground, Park Rental Cabins Shopping Malls Other (specify): Highway Service Station/Gas Bars 		
	🔀 Inc	lustrial	Describe:			
			Landfill support infr	astructure		
	5.3.3 Does/	•	-	Disposal/Landfill Sites ? ive waste disposal/landfill site leachate?	es, please identify the site(s) below.	
	Na	me of Site Cont	ributing Leachate		Environmental Compliance Approval Number	Volume of leachate (m ³)
	1.	WCEC to on s	site Leachate Treatm	nent Plant (already approved) [m3/day]	4117-8EHQE7	207.40
	2.	WCEC to City	of Ottawa Sewer Sy	/stem [m3/day]	A461002	1270.00
	3.					
	4.					
	5.					

5	Facility Information				Application Summary		•	•	y Requirements
						Prin	t Form	Clear Form	Save Form
7 5.4	Waste Dis	sposal Site	? IF Y	OUR APPLICATION IS	S NOT FOR A WASTE	DISPOSAL OR PROCE	ESSING SITE PLEASE	E PROCEED TO SECT	ION 5.5
√ 5.4.1		scription – Was	te Disposal Site (information on the nat	ure of the proposed but				
	ice Area						Total Area of Site (h	ectares)	
Onta	ario						232.90		
	itoring (select all th aroundwater	hat apply) X Surface	Water 🛛 🛛 L	andfill Gas	X Leachate	None	X Other (speci	fy): <mark>Air</mark>	
Туре	e(s) of waste to b	e accepted at this	s site (select all that a	ipply)					
	ect: lazardous Waste iquid Industrial Wa	aste			ibject: nicipal (non-hazardou er Liquid Waste	ıs)			
	-	-	epted at this site (se				-	-	
	Il Categories	🔀 Domesti		C&I Sources	Source Sepa		X Tires	🔀 Leaf & Yar	d Waste
	contaminated Soil	🗙 Wood W	aste 🔼 E	Blue Box Materials	X Other (specify	y): Refer to D&O	Report		
	-	-	ccepted at this site			_			
∐ P	rocessed Organic	cs 🗌 Waste fr	om Food Processing	g/Preparation Opera	itions 🗌 Hauled S	Sewage 🗌 Other	(specify):		
				Hazardous	Waste / Liquid Indu	strial Waste			
C	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code

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5.4.2 Waste Transfer/Processing/Composting – Complete this information if waste transfer and/or processing and/or composting take(s) place at this facility

١	Waste Types to be Transferred or Processed	Design Capacity
[Hazardous waste or liquid industrial waste	\bigcirc < 100 tonnes per day \bigcirc > 100 tonnes per day
	X Waste other than hazardous waste and liquid industrial waste	O ≤ 100 tonnes per day ● > 100 tonnes per day

	Change to Operations	
No Change Proposed	O Change does not require fundamental design review	O Change requires fundamental design review

Liquid Waste										
Maximum Storage Capacity (m ³) Maximum Residual for Final Disposal (m ³)						³)				
Hozardovo	Liquid Industrial		Hazai	Hazardous Liquid Industrial			Other Liquid Waste			
Hazardous	Liquid Industrial Other Lic	Other Liquid Waste Daily		Annually	Daily	Annually	Daily	Annually		
		0.00					0.00	0.00		

Solid Waste								
Maximum Storage	e Capacity (tonnes)	Maximum Residual for Final Disposal (tonnes)						
Hazardous	Non-hazardous	Hazai	Hazardous Non-hazardous					
Hazardous		Daily	Annually	Daily	Annually			
	370.00			370.00	370.00			

Maximum Amount of Waste to be Received Daily								
	Liquid (m ³)		Solid (tonnes)					
Hazardous	Liquid Industrial Other Liquid Waste		Hazardous	Non-hazardous				
	0.00			400.00				

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?

5.4.3 Thermal Treatment Facility – Complete this information if thermal treatment takes place at this facility

Waste Type for Thermal Treatment	Design Capacity			
Hazardous waste or liquid industrial waste	\bigcirc < 100 tonnes per day \bigcirc > 100 tonnes per day			
□ Waste other than hazardous waste and liquid industrial waste	\bigcirc < 100 tonnes per day \bigcirc > 100 tonnes per day			

Change to Operations 😯					
○ No Change Proposed	\bigcirc Change does not require fundamental design review	○ Change requires fundamental design review			

Liquid Waste										
Maximum Storage Capacity (m ³) Maximum Residual for Final Disposal (m ³)										
Llazardaua	Liquid Industrial		Hazai	rdous	Liquid Industrial		Other Liquid Waste			
Hazardous	Liquid Industrial	Other Liquid Waste	Daily	Annually	Daily	Annually	Daily	Annually		

Solid Waste								
Maximum Storage	e Capacity (tonnes)		Maximum Residual for Final Disposal (tonnes)					
Hazardous	Non-hazardous	Hazardous Non-hazardous						
Hazardous		Daily	Annually	Daily	Annually			

Maximum Amount of Waste to be Received Daily								
	Liquid (m ³)		Solid (tonnes)					
Hazardous	Liquid Industrial	Other Liquid Waste	Hazardous	Non-hazardous				

Maximum Daily Feed Rate (tonnes/m³)								
Hazardous Waste (tonnes)	Non-hazardous Waste (tonnes)	Liquid Industrial Waste (m ³)	Other Liquid Waste (m³)					

-	I General Information and Instructio prmation I 5 Facility Information I 6				-			equirements
					Print Form	Clear	Form	Save Form
5.4.4 Landfill Site – Complete th	is information if this facility o	perat	es as a landfill sit	te	?			
Waste Types to be accepted at the I	andfill	Desi	gn Capacity					
Hazardous waste or liquid industr	al waste	0	≤ 40,000 m³	0	> 40,000 m³ ≤ 3 mil	lion m³	\bigcirc > 3 million	m³
Waste is only uncontaminated tre concrete and rocks	e stumps, leaves, branches,	0	≤ 40,000 m³	0	> 40,000 m³ ≤ 3 mil	lion m³	○ > 3 million	m³
Waste other than hazardous waste uncontaminated tree stumps, leave	and liquid industrial waste, other than , branches, concrete and rocks.	Ô	≤ 40,000 m³	O	> 40,000 m³ ≤ 3 mil	lion m³	> 3 million	m³
		Ch	ange to Operations	?				
No Change Proposed			not require fundamer gical assessment	ntal design re		requires func ological asse	damental design essment	review or
	Мах	imum	Landfilling Capaci	ty (m³)				
Hazardous Waste	Non-hazardous Wa	ste	L	iquid Industr.	ial Waste	(Other Liquid Wa	ste
	6500000.00					0.00		
	Maximu	m Am	ount of Waste to be	Received				
Hazardous Waste (tonnes)	Non-bazardous Waste	(tonne)		uid Industria	Waste (m ³)	Ot	her Liquid Waste	⊇ (m ³)

Hazardous Waste (tonnes) Non-hazardous Waste (tonnes)		Waste (tonnes)	Liquid Industr	ial Waste (m³)	Other Liquid Waste (m ³)		
Daily	Annually	Daily	Annually	Daily	Annually	Daily	Annually
		4000.00	400000.00			0.00	0.00

				Landfill Information			
Area to be Landfilled (hectares)	Total Site Area including Buffer Area (hectares)	Estimated Date of Closure (yyyy/mm/dd)	Population Served	Control Types (select all that apply)			
				X Leachate Collected and Treated Off-site	Leachate Collected and Treated On-site		
37.79	232.90	2028/01/01	9000000.00	I Landfill Gas Collected and Flared	☑ Landfill Gas Collected for Energy Generation		
				Other (describe):			

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Are all the vehicles to be used owned by the applicant? O Yes O No

If no, please include additional information about ownership arrangements for each vehicle not owned by the applicant.

Has a minimum of \$1,000,000.00 liability insurance been obtained for all vehicles for which it is required? O Yes O No

Describe any additional insurances that are held (for example, environmental impairment liability insurance).

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0				·	Print Form			Clear Form	Save Form
5.5.3 General Wa	iste Manage	ment Syst	em	?					
Type(s) of Waste to	o be Transpo	rted by the	General Waste	Management Sys	tem (select all that ap	oly)			
Subject:				Non-su	bject:				
Hazardous Wast	te			🗌 Mun	icipal (non-hazardou	is)			
Liquid Industrial	Waste			🗌 Othe	er Liquid Waste				
Non-subject Categ	ories to be T	ransported	by the Genera	I Waste Manageme	ent System (select al	l that apply)			
Blue Box Materials Domestic Sources		stic Sources	🗌 Com	imercial	🗌 Non-Ha	zardous Solid Industria	al 🗌 Asbestos Waste in Bulk		
Dewatered Catch Basin Clean-out Material Leaf/Yard Waste		ard Waste	🗌 Woo	d Waste	Spill Cle	anup Material	Contaminated Soil		
Waste from Foo	•	☐ Tires		U Waste Wash Water			Processed Organics (not for land application)		ap Waste
Preparation Ope	erations			🗌 Othe	ers (specify):				
Subject Waste Cat	egories to be	Transporte	ed by the Gene		· · · · · · · · · · · · · · · · · · ·	Separate lis	t attached? O Yes	No	
	1				Waste / Liquid Indu	1	1		1
Class Code	Class Co	de C	lass Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code

All drivers are/will be trained in accordance with O. Reg. 347 and all pertinent environmental legislation.

Each vehicle used to transport a specific subject waste class is suitable for that waste transportation in order to protect the health and safety of the public and the natural environment.

Note: For transporters of pathological waste and PCBs (waste classes 243 and 312) Operations Manual and Driver Training Manual must also be attached and Financial Assurance must be provided.



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General Waste Management System – Disposal Site Information

What is the Final Destination of Waste to be Transported by the General Waste Management System? (select all that apply)

- A disposal site in Ontario approved by the Ministry of the Environment
- Disposal sites outside of Ontario approved by another regulatory agency

List the destination province(s)/state(s):

5.5.4 Soil Conditioner Waste Management System



(includes non-agricultural source material (NASM) that is waste and processed organic waste (biosolids) destined for land application only)

Has the applicant received recommendation from Biosolids Utilization Committee (BUC) for land application of processed organic waste (biosolids) or NASM?

- O Yes If yes, please provide a copy of the BUC recommendation.
- O No If no, please clarify:

Spreading equipment (land application only)

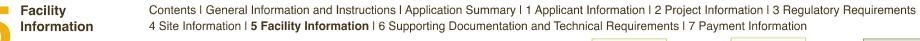
Separate list attached? O Yes O No

Equipment Type	Make & Model	Description

5 Facility Information				ummary I 1 Applicant Information I 2 Project Informa umentation and Technical Requirements I 7 Payment			nt Information		
					Print Form	Clear Form	Save Form		
Method of system operati	on (land applica	ation only)							
Estimated quantity to be handl	ed on an annua	al basis (cubic metres/litres/tonnes):							
Please describe the loading pr	ocedures:								
Please describe the spreading	methods:								
Please describe the storage fa	cilities (tanks, la	igoons, etc.):							
			_						
	-	System – Land Application Si e transported by the soil condition		nont evetom?	(must include for long	d continue only)			
	Agricultural I	• •	-	nem system : 1	(Must include for land	application only)			
	-	-	-						
		te Management System	?						
Type(s) of hauled sewage (sep	otage) to be trai Septic tank wa		Other (specify):						
	•				○ N-				
Spreading Equipment (land app	olication only)		Separate list attach	ed? () Yes	O No				
Equipment Type		Make & Model			Desc	cription			

5	Facility Informati		Contents General Information and Instructions Application Summary 1 Applicant Information 2 Project Information 3 Regulat 4 Site Information 5 Facility Information 6 Supporting Documentation and Technical Requirements 7 Payment Information						
						Print Form	Clear Form	Save Form	
Doe	s this system	i include in-transit stora	je? () Yes ()	No ?					
lf ye: a) V		ration of storage? Please	pecify (Maximum perio	d of in-transit storage shou	uld not exceed more than two	o weeks):			
	-	ank a prefabricated tank v g Code or CAN/CSA B66-		,000 L, designed and c	constructed in accordance	e with a Class 5 Sewage	e System under the		
C) Yes	O No If no, please pro	vide a copy of the de	sign of the storage tank	signed and dated by a p	rofessional engineer.			
Doe	s this system	i include in-transit proce	ssing? 🔿 Yes	🔾 No ?					
lf ye: a) L		ransit processing:							
🗌 li	n Vehicle] In-storage Tank							
b) D	escribe the m	ethod of in-transit process	ing:						
Doe	s this system	use barge/boat to trans	port hauled sewage	(septage)? 〇 Yes	O No ?				
	-	n of \$1,000,000.00 liability 〇 No	insurance been obtai	ned for the barge/boat f	for which it is required?				
	oes the barge	e/boat have an engine of 1 ○ No If yes, please in				equired from Transport	Canada?		

Note: For in-transit storage or processing the applicant must include with the application the consent of the landowner, if the landowner is different than the applicant. A financial assurance estimate must be provided by applicants using in-transit storage or using in-transit processing where processing is conducted in the in-transit storage tanks.



|--|

Clear Form



Hauled Sewage (Septage) Waste Management System – Land Application Sites 🛛 N/A

List the Environmental Compliance Approval Number(s) of all disposal site(s) approved by the Ministry of the Environment for land application of hauled sewage in association with this waste management system.

?

Instrument Type	Instrument Number	Approval or Application Date (yyyy/mm/dd)	Instrument Type	Instrument Number	Approval or Application Date (yyyy/mm/dd)

-									
J		Print Form	Clear Form						
5.6 Waste Management S	System – Mobile Waste Processing	?							
5.6.1 Mobile Waste Manageme	nt System Process and Equipment Description	?							
Type(s) of Waste to be Processed (see	elect all that apply)								
Subject:	Non-subject:								
Hazardous Waste	🗌 Municipal (non-hazar	dous)							
Liquid Industrial Waste	Other Liquid Waste								
Number of Units	Type of Waste to be Processed by the Unit(s)	Financial Assurance (per unit)	Financial Assurance Required						
	Non-hazardous Solid Waste	\$5,000							
	Hazardous Waste	\$20,000							
	Liquid Industrial Waste	\$20,000							
	Other Liquid Waste	\$20,000							
	Multiple Types of Waste from the Categories Above	\$20,000							
		Total Financial Assurance	\$0						
Municipal (non-hazardous) Waste Ca	ategories to be Processed (select all that apply)								
Contaminated Soil at Cleanup Site	Wood Waste Construction & Demolition Waste	Asbestos Waste							
Domestic Waste Dother (specif	y):								
Other Liquid Waste Categories to be	Processed (select all that apply)								
Hauled Sewage Waste from	Food Processing/Preparation Operations	Organic							
Other (specify):									

Hazardous/Liquid Industrial Waste Types to be Processed									
Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code		



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5.6.2 Equipment Information – Please attach a separate list if more space is required.

Separate list attached? O Yes O No

			Equipment List					
Unit No.	Unit Type	Process Description	Equipment Type	Make	Model	Serial Number	Equipment Capacity (including unit of measurement)	
Unit 1								
Unit 2	nit 2							
Unit 3								
Unit 4								



Contents | General Information and Instructions | Application Summary | 1 Applicant Information | 2 Project Information | 3 Regulatory Requirements 4 Site Information | 5 Facility Information | 6 Supporting Documentation and Technical Requirements | 7 Payment Information







5.7 Cleanup of Contaminated Sites

IF YOUR APPLICATION IS NOT FOR A CLEANUP OF A CONTAMINATED SITE PLEASE PROCEED TO SECTION 6.

?

Type of cleanup:

- 🔿 In-situ
- ⊖ Ex-situ
- O Both

Contaminated media to be treated:

- Surface water
- Sediment 🗌
- 🗌 Soil

Waste Type:

Subject:

Non-subject:

- Hazardous Waste
- Liquid Industrial Waste

Municipal (non-hazardous)

Other Liquid Waste

Surface water

Type of discharge:

🗌 Air	
-------	--

Groundwater

🗌 Noise

Supporting Documentation and Technical Requirements

Contents | General Information and Instructions | Application Summary | 1 Applicant Information | 2 Project Information | 3 Regulatory Requirements 4 Site Information | 5 Facility Information | 6 Supporting Documentation and Technical Requirements | 7 Payment Information

Print Form

Clear Form

Save Form

6.1 General — THIS IS A LIST OF SUPPORTING INFORMATION TO THIS APPLICATION AND IS SUBJECT TO THE FIPPA AND EBR.

	Attachment	Attached	I	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (√)
\checkmark	Proof of legal name	🔘 Yes 🔘	No		
	Enhanced EBR description	⊖ Yes ⊖	No		
	Provincial Officer Notice	⊖ Yes ⊖	No		
	Inspection Report	⊖ Yes ⊖	No		
\checkmark	Detailed project and process description	🔘 Yes 🔘	No		
\checkmark	Pre-application Consultation Record	🔘 Yes 🔘	No		
	Legal Survey(s)	⊖Yes ⊖	No		
\checkmark	Site Plan(s)	🔘 Yes 🔘	No		
\checkmark	Scaled area location plan(s) with geo-referencing points identified	🔘 Yes 🔘	No		
\checkmark	Documentation in support of EBR Exception	🔘 Yes 🔘	No		
\checkmark	Proof of Compliance with EAA Requirements	🔘 Yes (No		
\checkmark	Proof of Consultation/Notification	🔘 Yes 🔘	No		
\checkmark	Financial Assurance Estimate	🔘 Yes 🔘	No		X
	Name, address and consent of land/site owner for the installation and operation of the proposed activity or storage location of equipment or vehicle	⊖ Yes ⊖) No		
	Name, address and phone number of the Operating Authority	⊖ Yes ⊖	No		
	Copy of NEPDA Permit	⊖ Yes ⊖	No		
	Copy/Proof of Municipal Planning Approval (ORMCA, general)	⊖ Yes ⊖	No		
\checkmark	Municipal Zoning Confirmation Letter	🔘 Yes 🔘	No		
\checkmark	Zoning map	🔘 Yes 🔘	No		
	Conservation Authority Clearance	⊖ Yes ⊖	No		
	Director's approval for Policy 2 Deviation	⊖ Yes ⊖	No		
\checkmark	Application Fee	🔘 Yes (No		

Supporting	Contents General Information and Instructions Application Summary 1 Applicant Information 2 Project Information 3 Regulatory Requirements						
Documentation	4 Site Information 5 Facility Information 6 Supporting Documentation and Technical Requirements 7 Payment Information						
and Technical Bequirements		Print Form		Clear Form		Save Form	

	Attachment	Attached	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (√)
\checkmark	A copy of this application has been sent to the Ministry Local District Office	🖲 Yes 🔘 No		
\checkmark	Explanation for confidentiality	🔘 Yes 💿 No	Financial Assurances is confidential	
\checkmark	Other (please describe): Refer to cover letter	🕑 Yes 🔘 No		

6.2 Air

Requirements

Emission Summary and Dispersion Modelling (ESDM) Report prepared in accordance with s.22 and of O. Reg. 419/05 (including signed checklist – PIBS 5357e)	O Yes	O No	
Electronic copy of the Dispersion Modelling input and output files prepared in accordance with s.26 of O. Reg. 419/05	⊖ Yes	O No	
Supporting Information for a Maximum Ground Level Concentration Acceptability Request for Compounds with no Ministry POI Limit – Supplement to Application for Approval, EPA S.9 (PIBS 4872)) Yes	O No	
Copies of forms requesting O. Reg. 419/05 instruments and supporting documentation	⊖ Yes	O No	
Other (please describe):	⊖ Yes	O No	

6.3 Noise and Vibration

Primary Noise Screening	🔿 Yes 🔿 No	
Secondary Noise Screening	🔿 Yes 🔿 No	
Abbreviated Acoustic Assessment Report including signed checklist (A-AAR)	○ Yes ○ No	
Acoustic Assessment Report including signed checklist (AAR) (PIBS 5356e)	⊖ Yes ⊖ No	
Vibration Assessment report	🔿 Yes 🔿 No	

Supporting Documentation

and Technical Requirements Contents | General Information and Instructions | Application Summary | 1 Applicant Information | 2 Project Information | 3 Regulatory Requirements 4 Site Information | 5 Facility Information | 6 Supporting Documentation and Technical Requirements | 7 Payment Information

Print Form		Clear Form
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Save Form

Attachment	Attached	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (√)
Noise Abatement Action Plan	🔿 Yes 🔿 No		
Other (please describe):	🔿 Yes 🔿 No		

✓ 6.4 Sewage

	Signed Municipal Responsibility Agreement	🔿 Yes	🔿 No		
	Detailed description of the proposed activities/works	🔿 Yes	O No		
\checkmark	Notice of Completion for the Environmental Study Report (ESR)	🔘 Yes	🔘 No	Completed under Environmental Assessment	
\checkmark	Design Brief	🔘 Yes	🔘 No		
\checkmark	Preliminary Engineering Report	Yes	🔘 No		
	Final Plans	🔿 Yes	🔿 No		
\checkmark	Engineering Drawings and Specifications	🔘 Yes	🔘 No		
\checkmark	Sewage quantity and quality characteristics	🔘 Yes	🔘 No		
\checkmark	Stormwater Management Report	🔘 Yes	🔘 No		
\checkmark	Stormwater Management Plan	🔘 Yes	🔘 No		
\checkmark	Hydrogeological Assessment	🔘 Yes	🔘 No		
\checkmark	Environmental Impact Analysis	🔘 Yes	🔘 No	Completed under Environmental Assessment	
	Final effluent criteria accepted by regional office of the Ministry	🔿 Yes	🔿 No		
	Sewage Works Limited Operational Flexibility Requirements				
	1. Engineer's Report	🔿 Yes	🔿 No		
	2. Declarations	🔿 Yes	O No		
	Pipe Design Data Form	🔿 Yes	O No		
	Other (please describe):	🔿 Yes	🔿 No		

	4 Site Information 5 Facility Information 6 Supporting Documentation and Technical Requirements 7 Payment Information					
	and Technical Requirements			Print Form Clear Form	Save Form	
	Attachment	Attac	ched	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (√)	
\checkmark	6.5 Waste Disposal Sites					
\checkmark	Design and Operations Report	Yes	🔘 No			
\checkmark	Stormwater Management Report	🔘 Yes	🔘 No			
\checkmark	Hydrogeological Assessment	Yes	🔘 No			
\checkmark	Assessment of Physical and Water Use Conditions	🔘 Yes	🔘 No			
	Waste Limited Operational Flexibility Requirements					
	1. Engineer's Report	⊖ Yes	O No			
	2. Declarations	⊖ Yes	O No			
\checkmark	Copy of notification to adjacent landowners	Yes	🔘 No			
\checkmark	Other (please describe): Refer to cover letter	Yes	🔘 No			
\checkmark	6.6 Waste Management Systems					
	Proof of vehicle and/or equipment ownerships	⊖ Yes	O No			
	Complete Fleet List (list of all vehicles, trailers and equipment used)	⊖ Yes	O No			
	Copy of the Liability Insurance for all vehicles for which insurance is required	⊖ Yes	O No			
	Copy of BUC recommendation	⊖ Yes	O No			
	Copy of the storage tank design	⊖ Yes	🔿 No			
	Copy of commercial vehicle licence	⊖ Yes	O No			
\checkmark	Description of the physical location where the vehicles transporting biomwedical waste are being disinfected	O Yes	🔘 No			
\checkmark	Drivers Training Manual (for PCB/Biomedical Waste)	🔘 Yes	🔘 No			
\checkmark	A copy of the applicant's Operation Plan including detailed packaging and biomedical waste handling methods	O Yes	🔘 No			
\checkmark	Contingency and Emergency Procedures Plan (for PCB/ Biomedical Waste/Hauled Sewage (Septage))	O Yes	🔘 No			
	Other (please describe):	⊖ Yes	🔿 No			

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Supporting

6	Supporting Documentation	Contents General Information and Instructions Application Summary 1 Applicant Information 2 Project Information 3 Regulatory Requirements Site Information 5 Facility Information 6 Supporting Documentation and Technical Requirements 7 Payment Information				
U	and Technical Requirements		Print Form	Clear Form	Save Form	

Attachment	Attached	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (√)
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6.7 Mobile Waste Processing

Design and Operations Report – Mobile Waste Processing of General Waste	⊖ Yes ⊖ No	
Design and Operations Report – Mobile Waste Processing of Liquid Waste	⊖ Yes ⊖ No	
Other (please describe):	⊖ Yes ⊖ No	

✓ 6.8 Cleanup of Contaminated Sites

Design Report for Cleanup of Contaminated Sites		🔿 Yes	O No		
Other (please describe):		🔿 Yes	O No		

6.9 Other Attachments

Title	Reference	Confidential* (√)
Are you attaching an additional list of attachments?	If there is not enough space to list all of the attachments included in this application package, please include an additional listing of these attachments.	

*Please note: The collection of personal information in this application is necessary to administer the Ministry's approvals program, which is authorized pursuant to the Environmental Protection Act and the Ontario Water Resources Act. The personal information collected in this application will be used to administer the program, including for the purposes of the Ministry's compliance and enforcement activities under the aforementioned acts, and for the purposes of making information in respect of Environmental Compliance Approvals available to the public with the exception of payment information. Questions about the collection of the information can be directed to a Client Service Representative, Environmental Approvals Access and Service Integration Branch, 2 St. Clair Avenue West, Floor 12A, Toronto Ontario M4V 1L5; Telephone outside Toronto 1-800-461-6290 or in Toronto 416-314-8001 or Fax 416-314-8452. Contents | General Information and Instructions | Application Summary | 1 Applicant Information | 2 Project Information | 3 Regulatory Requirements 4 Site Information | 5 Facility Information | 6 Supporting Documentation and Technical Requirements | 7 Payment Information

			Print Form	Clear Form	Save Form
Payment Information: Ap	plication for an Environmental C	Compliance Approval	?		
 You do not need to include the s If you are completing this form e The Ministry may require addition All fees should be paid in Canado Credit card payments are acception If you are paying by certified che The information collected in this 	by hand, you must complete and attach your fe supplemental fee calculations if you are filling i dectronically, the fees for this application have onal information during the review of your appli lian funds, payable to the <i>Minister of Finance</i> , ted for payments under \$10,000 only. eque or money order, please staple your paym section of the form is considered confidential ppies of your application that are being prov	in this form electronically. e been calculated based on the lication that could impact the to , except fees for <i>Transfer of Re</i> nent to this page. I and will only be used to proce	otal fee required. <i>view</i> , which are payable ss your application fee.	e to the local municipality.	
Amount Enclose	d Method of Payment				
\$ 50,200.00	Certified Cheque	Money Order MasterCard	🔲 American E	xpress	
Credit Card Information (if paying by Name on Card (please print)	VISA, MasterCard or American Express) Credit Card Number		Expiry Date (m	m/yyyy)	
Cardholder Signature	Date (yyyy/mm/dd)				
		sertified cheque or money order lease attach it here.	, ,		

ontario.ca/environment



(Proof of Legal Name)

Ministry of Consumer and Business Services

Registration Division Companies and Personal Property Security Branch 393 University Ave., Suite 200 Toronto ON M5G 2M2 Ministère des Services aux consommateurs et aux entreprises

Division de l'enregistrement Direction des compagnies et des sûretés mobilières 393, av. University, bureau 200 Toronto ON M5G 2M2



January 8, 2004

Corporations Information Act

Your Reporting Requirements

WASTE MANAGEMENT OF CANADA CORPORATION NICOLA QASEM 20 SIMMONDS DRIVE DARTMOUTH NS B3B 1R3

This is your Ontario Corporation Number (OCN)

1600554

Regulations require that this number is stated in all notices submitted under the *Corporations Information Act.* This number must be stated in ALL correspondence with the Companies and Personal Property Security Branch.

Initial Return

The Corporations Information Act states that every extra-provincial corporation, other than a corporation of a class exempted by the Regulations, that begins to carry on business in Ontario shall file an Initial Return, Form 2, within sixty (60) days after the date the corporation begins to carry on business in Ontario. The Initial Return you have just filed has generated an Ontario Corporation Number and created a file for the public record for your corporation.

Notice of Change

In addition to the Initial Return you have recently filed, you are required to file a Notice of Change for every change in the information within 15 days after the change or changes take place. There is no fee for filing these notices.

Forms

Forms may be obtained from the Ministry at the above noted address or by <u>calling (416) 314-8880, 1-800-361-3223 or</u> <u>TDD (416) 212-1476</u>. Forms are also available on the Ministry's website at <u>www.cbs.gov.on.ca</u>. To access the forms, select the 'Business Information' option at the top of the Ministry's home page.

Business Name

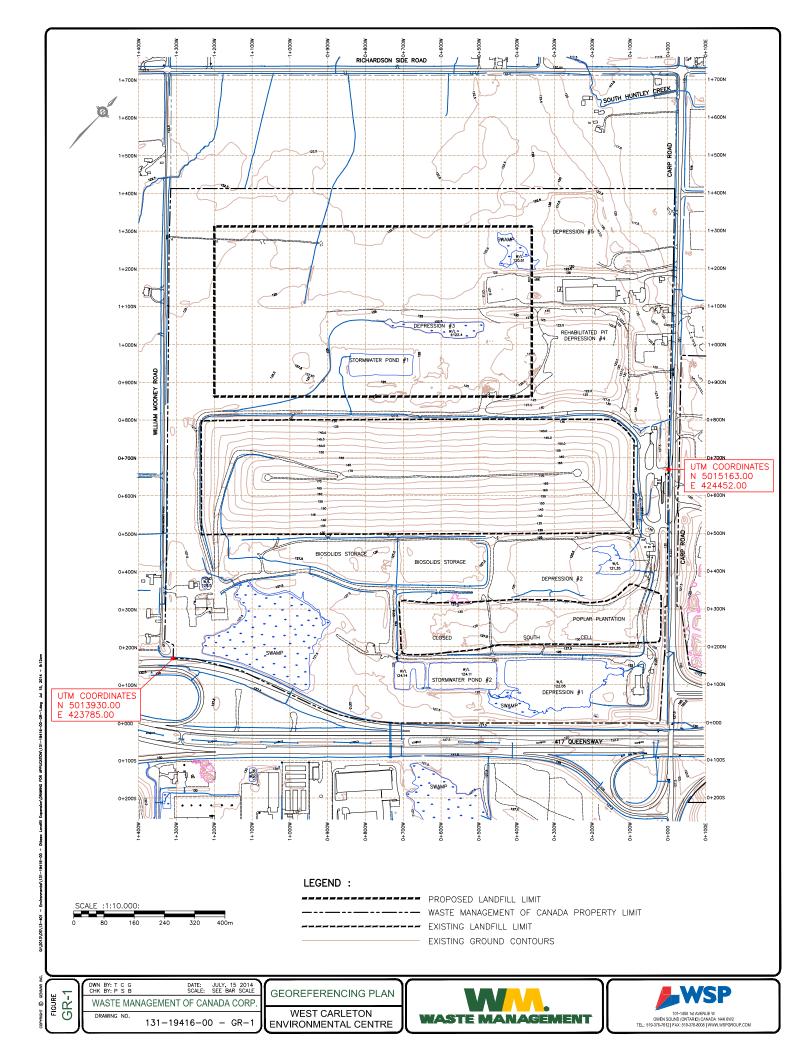
- (a) No corporation shall carry on business in Ontario or identify itself to the public in Ontario by a name other than its corporation name unless the name is first registered. The appropriate registration form may be obtained from the Companies and Personal Property Security Branch or by calling <u>one</u> of the above noted telephone numbers.
- (b) A corporation which has registered and uses a name other than its corporate name is required to set out its corporate name and all registered business names on all contracts, invoices, negotiable instruments and orders for goods or services.

Penalties

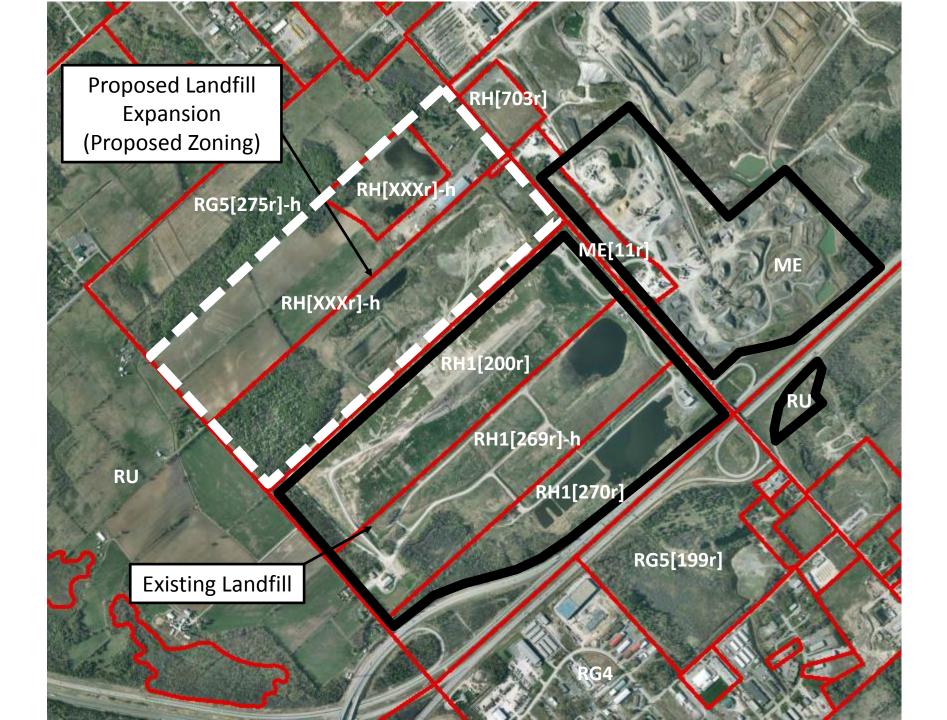
Sections 13 and 14 of the Corporations Information Act provide penalties for contravening the Act or Regulations.

Section 18(1) of the Act provides that a corporation that is in default of a requirement under this Act to file a notice or that has unpaid fees or penalties is not capable of maintaining a proceeding in a court in Ontario in respect of the business carried on by the corporation except with leave of the court.

(Georeferencing Plan)



(Zoning Map of the Site)



 a) (Letter dated July 16, 2014 from Rick O'Connor, CMO, City Clerk and Solicitor, City of Ottawa to Michelle Armstrong, FoTenn Consultants Inc. in reference to Zoning By-Law Amendment - 2349-2437 Carp Road and 512 William Mooney Road)

b) (Letter dated August 15, 2014 from Lorna Dagg, Legislative and Technical Services Planning and Growth Management Department, City of Ottawa to Michelle Armstrong, FoTenn Consultants Inc. in reference to By-Law No. 2014-276, 2349, 2353, 2357, 2363, 2383, 2389, 2393, 2397, 2413, 2425 & 2437 Carp Road and 512 William Mooney Road)





Office of the City Clerk and Solicitor Bureau du greffier et chef du contentieux

File No. ACS2014-PAI-PGM-0139

16 July 2014

FoTenn Consultants Inc. Attn.: Michelle Armstrong 223 McLeod Street Ottawa, ON K2P 0Z8

Re: ZONING BY-LAW AMENDMENT – 2349-2437 CARP ROAD AND 512 WILLIAM MOONEY ROAD

This is to advise you that the Council of the City of Ottawa, at its meeting of 9 July 2014, approved the following recommendation as contained in Agriculture and Rural Affairs Committee Report 43, Item 4:

That Council approve an amendment to Zoning By-law 2008-250 for 2349 to 2437 Carp Road, and 512 William Mooney Road to permit the expansion of a solid waste disposal facility subject to a holding provision and increased setbacks, as shown in Document 1 and as detailed in Document 2.

Should you require further information, please contact Ms. Cheryl McWilliams, Planner, Development Review Rural Services Unit, Planning and Growth Management Department, at (613) 580-2424, extension 30234, or by e-mail at Cheryl.McWilliams@ottawa.ca.

Shaping our future together Ensemble, formons notre avenir City Clerk and Solicitor City of Ottawa 110 Laurier Avenue West Ottawa, ON K1P 1J1 tel.: (613) 580-2400 web: www.ottawa.ca Greffier de la Ville et chef du contentieux Ville d'Ottawa 110, avenue Laurier Ouest Ottawa, ON K1P 1J1 tél. : (613) 580-2400 web: www.ottawa.ca. Yours truly,

M. Rick O'Connor, CMO City Clerk and Solicitor

 c.c. Ross Wallace, Waste Management Corporation of Canada, 2301 Carp Road, Ottawa, ON K0A 028
 OttawaScene Canada Signs, 1565 Chatelain Avenue, Ottawa, ON K1Z 8B5
 G. Lamarche, Program Manager, Assessment Financial Services (26-76
 C. McWilliams, Planner, Rural Services Unit, Development Review, PGM (01-14)



August 15, 2014

Michelle Armstrong FoTenn 223 McLeod Street Ottawa, Ontario K2P 0Z8

Dear Ms. Armstrong:

RE: By-law No. 2014-276 2349, 2353, 2357, 2363, 2383, 2389, 2393, 2397, 2413, 2425 & 2437 Carp Road and 512 William Mooney Road

This is to advise that no appeals have been received in respect of By-law No. 2014-276. Accordingly, the amendment is in full force and effect as of its date of enactment, July 9, 2014.

Attached for your information is a copy of By-law No. 2014-276 along with the related declaration that no appeals have been received.

Please feel free to contact Cheryl McWilliams at 613-580-2424, extension 30234 or email Cheryl McWilliams@ottawa.ca, if you require further information on this matter.

Yours truly

Some Deg

Lorna Dagg Legislative and Technical Services Planning and Growth Management Department

Attach. 2

c.c. Cheryl McWililams

Marcel Clément, Municipal Relations Representative, Municipal Property Assessment Corporation

Ghislain Lamarche, Program Manager, Assessment, Deputy City Treasurer Revenue Branch

Ross Wallace, c/o Waste Management Corporation of Canada, 2301 Carp Road, Ottawa, Ontario K0A 0Z8

Shaping our future together Ensemble, formons notre avenir City of Ottawa Planning and Infrastructure 110 Laurier Avenue West Ottawa ON K1P 1J1 Tel: 613-580-2400 Fax: 613-580-2576 www.ottawa.ca Ville d'Ottawa Urbanisme et Infrastructure 110, avenue Laurier Ouest Ottawa ON KIP IJ1 Tél: 613-580-2400 Fac: 613-580-2576 www.ottawa.ca

THE CITY OF OTTAWA

IN THE MATTER OF Zoning By-law 2014-276 enacted pursuant to Section 34 of the *Planning Act*, R.S.O. 1990

AFFIDAVIT OF Cheryl McWilliams

I, Cheryl McWilliams, MAKE OATH AND SAY:

1. I am an employee of the City of Ottawa and as such have knowledge of the facts to which I hereinafter depose.

2. Zoning By-law No. 2014-276 was enacted, pursuant to Section 34 of the *Planning Act*, by the Council of the City of Ottawa on the 9th day of July 2014.

3. Written notice of the passing of the by-law was given pursuant to Section 34(18) of the *Planning Act* on the 23rd day of July 2014 in the manner and in the form and to the persons and agencies prescribed by Section 6 of Ontario Regulation 545/06.

4. The twenty-day period prescribed under Section 34(19) of the *Planning Act* for filing a notice of appeal setting out the objection to the by-law and the reasons in support of the objection expired on the 12th day of August 2014.

5. To this date, no such notice of appeal under said Section 34(19) has been filed with me by any person or agency and to the best of my knowledge and belief; none was filed with any other official or employee of the City of Ottawa.

SWORN BEFORE ME at the City of Ottawa this 15th day of August 2014

hall

Cheryl McWilliams

A. Commissioner, etc.

Lorna Ann Dagg, a Commissioner, etc., Province of Ontario, for the City of Ottawa. Expires June 12, 2015.

BY-LAW NO. 2014 - 276

A by-law of the City of Ottawa to amend By-law No. 2008-250 of the City of Ottawa to change the zoning of lands known municipally as 2349, 2353, 2357, 2363, 2383, 2389, 2393, 2397, 2413, 2425, and 2437 Carp Road and 512 William Mooney Road.

The Council of the City of Ottawa, pursuant to Section 34 of the *Planning Act*, R.S.O.1990, enacts as follows:

1. The Zoning Map of By-law No. 2008-250, entitled the "City of Ottawa Zoning By-law" is amended by rezoning the lands shown on Attachment 1 to this by-law as follows:

- (a) Area A from ME2 to RH[787r]-h,
- (b) Area B from RG5[275r]-h to RH[787r]-h,
- (c) Area C from RH to RH[787r]-h,
- (d) Area D from RH4 to RH[787r]-h.

2. Section 240 – Rural Exceptions of the said By-law No. 2008-250 is amended by adding the following exception:

[]	Exception Pr	rovisions	
Applicable		IV	V
Zone	Additional	Land	Provisions
		Uses	
DUIZOZIL			
RH[787r]-h	solid waste disposal facility	- all uses until the holding symbol is removed	 minimum yard setback for the permitted uses including any outdoor storage from the lot lines abutting Carp Road is 50 metres minimum yard setback for the permitted uses including any outdoor storage from the lot lines abutting William Mooney Road is 75 metres minimum yard setback for the permitted uses including any outdoor storage from the north west property lines abutting the property at 2485 Carp Road is 40 metres all portions of required yards described above, not covered in driveways and storm water management ponds, must be
	Applicable Zone	Applicable III Zone Additional Land Uses Permitted RH[787r]-h solid waste disposal	ApplicableIIIIVZoneAdditionalLandLand UsesUsesPermittedProhibitedRH[787r]-hsolid waste- all usesdisposaluntil thefacilityholdingsymbol is

ENACTED AND PASSED this 9th day of July, 2014.

CITY CLERK

MAYOR

BY-LAW NO. 2014 - 276

A by-law of the City of Ottawa to amend By-law No. 2008-250 of the City of Ottawa to change the zoning of lands known municipally as 2349, 2353, 2357, 2363, 2383, 2389, 2393, 2397, 2413, 2425, and 2437 Carp Road and 512 William Mooney Road.

Enacted by City Council at its meeting of July 9, 2014.

LEGAL SERVICES DG/SM G04-01-2014 07 09

COUNCIL AUTHORITY: City Council July 9, 2014 Agenda Item 2 (ARAC Report No. 43)

(Letter dated July 14, 2014 from Greg Davis, Environmental Officer Ottawa District Office of MOECC to Ross Wallace District Operations Manager, WMCC in reference to Review of 2013 Annual Monitoring Report, Ottawa Waste Management Facility) Ministry of the Environment and Climate Change Ottawa District Office 2430 Don Reid Drive, Suite 103 Ottawa Ontario K1H 1E1 613-521-3450 or 1-800-860-2195 Fax: 613-521-5437 Ministère de l'Environnement et de l'Action en matière de changement climatique Bureau du district d'Ottawa 2430, promenade Don Reid, Unité 103 Ottawa (Ontario) K1H 1E1 613-521-3450 ou 1-800-860-2195 Téléc. : 613-521-5437



July 14, 2014

Waste Management of Canada Corporation 2301 Carp Road Carp, Ontario K0A 1L0

Mr. Ross Wallace

Attention:

District Operations Manager

Re:

Review of 2013 Annual Monitoring Report Ottawa Waste Management Facility Waste Management of Canada Corporation 2301 Carp Road, City of Ottawa A461002

Waste Management of Canada Corporation (WMCC) operates the Ottawa Landfill Site Facility at 2301 Carp Road under Environmental Compliance Approval (ECA) A461002. The Site includes a closed 35 hectare landfill site, an operating solid non-hazardous transfer/processing facility, a landfill gas to energy facility, and other fundamental operations.

Specific to human and environmental concerns related to leachate and/or leachate impacted water leaving the Site, WMCC is required to conduct comprehensive monitoring programs for ground and surface waters. WMCC conducts their ground and surface water monitoring programs at the Site in accordance with ECA A461002 and accompanying documents such as the Environmental Monitoring Plan (EMP), dated May 18, 2011.

Based on the submission of the 2013 Annual Monitoring Report the Ministry's Technical Support Section conducted a review of the results of the ground water monitoring program. The review, date June 20, 2014, is attached to this correspondence.

The Ministry determined that there were B-7 Reasonable Use Limit and Prediction Limit exceedances near the site's property boundary. These areas included:

- Although monitoring well W64 met Guideline B-7 parameters during 2013 monitoring year there have been previous reasonable use exceedances at this well. It has been agreed that no further action is warranted at this time, excluding ongoing monitoring, as Waste Management either owns the land to the north or has an option on the land.
- B-7 exceedances at W53-1, W53-2, and W82 near the northern boundary of the northeast contaminant attenuation zone. In accordance with the EMP the monitoring wells in this area were previously elevated to quarterly monitoring. Based on

confirmation in the 2013 Annual Monitoring Report that leachate impacts exceed B-7 values in these monitoring wells WMCC is required to implement Step 4 of the EMP; Development and Implementation of Corrective Action Plan (CAP).

Prediction Limit exceedances at W94, W95, and W96 along the eastern boundary of the eastern contaminant attenuation zone. These wells were previously elevated to quarterly monitoring. Given the parameters and their concentrations and the land use hydraulically down gradient of this area is aggregate extraction, the Ministry recommends that aside from continued monitoring no further action is necessary at this time in this area.

Under ECA A461002, WMCC is required to carry out a four step Compliance Assessment program as detailed in the Environmental Monitoring Program should exceedances of the primary leachate indicators occur. As noted above there were exceedances of the leachate indicators for both reasonable use limits and prediction limits. Based on the aforementioned WMCC is in compliance with their ECA as they are complying with the compliance assessment program conditions.

If you have any questions or concerns you may contact me at 613-521-3450 ext.227.

Thank you,

Mrey Davis

Greg Davis Environmental Officer Ottawa District Office

(West Carleton Environmental Centre, Record of Consultation Supporting Document, AECOM Canada Limited, dated August 2014)



Waste Management of Canada Corporation

West Carleton Environmental Centre Environmental Compliance Approval Record of Consultation – Supporting Document

Report



Waste Management of Canada Corporation

West Carleton Environmental Centre Environmental Compliance Approval Record of Consultation – Supporting Document

AECOM		
105 Commerce Valley Drive West, Floor 7	905 886 7022	tel
Markham, ON, Canada L3T 7W3	905 886 9494	fax
www.aecom.com		

Project Number: 60289364

Prepared by:

Date: August 2014



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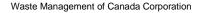
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2.	Stak	keholders	1
3.	Con	sultations	1
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	3.2	Open House #1	
	3.3	Open House #2	
	3.4	Project Website	
	3.5	Project Office	
	3.6	WCEC Project Liaison Committee (PLC)	
	3.7	Consultation with Aboriginal Communities	
	3.8	Consultation with Government Agencies	
4.	Com	nments	

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Table 1	Summary of Stakeholder Comments on West Carleton Environmental Centre (WCEC) Draft
	Environmental Compliance Approval (ECA) 5

Appendices

- Appendix A. Stakeholder List Government Review Team and First Nations and Metis Organizations
- Appendix B. Open House #1 Summary Report
- Appendix C. Open House #2 Summary Report
- Appendix D. Correspondence with Aboriginal Communities
- Appendix E. Correspondence with Government Review Team





1. Introduction

Waste Management of Canada Corporation (WM) committed in the approved Environmental Assessment (EA) for the West Carleton Environmental Centre (WCEC) to consult with their stakeholders, government agencies, and First Nations and Aboriginal communities regarding Environmental Compliance Approvals (ECA), Environmental Monitoring Plan (EMP), and Best Management Practices (BMP) before submitting a formal ECA application to the Ministry of the Environment (MOE).

The consultation commitment included advertisement and notification of availability of draft material on the project website for a 30-day review period (e.g., local weekly newspapers, project website, stakeholder email, neighbours letter), conduct of consultation events on draft material, if needed, (e.g., Open Houses), and posting on the project website of the final application material submitted to the MOE, including a record of the stakeholder consultation process.

This report summarizes the stakeholders consulted and the consultation activities conducted in conjunction with the WCEC Environmental Compliance Approval (ECA) process.

2. Stakeholders

The list of stakeholders developed during the Terms of Reference (TOR) and carried forward into the EA, was also followed in the ECA. As appropriate, this list was updated throughout the ECA process to reflect:

- 1. Requested changes to contact information;
- 2. Those stakeholders who wish no further involvement in the ECA; and
- 3. New stakeholders who wish to be directly notified of future events.

Appropriate review agencies were contacted during the ECA, including federal ministries and departments, provincial ministries, municipalities, conservation authorities, emergency services, and utilities. A complete list of the Government Review Team (GRT) is presented in Appendix A.

The Algonquins of Ontario and the Métis Nation of Ontario were contacted during the ECA as indicated in Appendix A. It should be noted that the Mohawk Council of Akwesasne declined the offer to participate in the EA process and they were therefore not engaged in any further consultation activities in the ECA. The Métis National Council observes initiatives at the federal level. The WCEC EA did not trigger a federal EA, thus involvement of the Métis National Council was determined to be unwarranted during the EA and ECA.

Local neighbours, stakeholder groups, and individual stakeholders who were interested in the WCEC EA were included in a list of stakeholders used in the ECA, including stakeholders who attended consultation events or submitted comments.

3. Consultations

3.1 Posting of Draft ECA Materials

WM posted the draft material on the project website for a 30-day public review period from Thursday, May 15th to Monday, June 16th. WM also provided hard copies of the draft material for public review at their offices located at



254 Westbrook Road and 2301 Carp Road in Ottawa. WM issued notices of the posting in three local weekly newspapers in Ottawa (i.e., Stittsville, Kanata, and Carp) on Thursday, May 15th and Thursday, May 22nd. The draft ECA materials posted for review are found at http://wcec.wm.com.

3.2 Open House #1

The intent of Open House #1 was to provide stakeholders with an opportunity to review draft material related to the WCEC ECA, including the Design and Operations Report (D&O), Environmental Monitoring Plan (EMP), and Best Management Plans (BMP). The Open House displayed a series of display boards that provided an overview of the draft material related to the WCEC ECA. WM staff and consultants were available to discuss draft material with stakeholders, receive their comments, and answer their questions. As stakeholders arrived, WM personnel asked them to sign-in and provided them with a comment sheet that included questions regarding the draft project information presented. Stakeholders had the option of filling out the comment sheet on-site or providing comments via mail, email, or fax to WM.

Nineteen (19) individuals registered at Open House #1.

WM staff and consultants received comments and questions from stakeholders at the Open House. WM received one (1) comment sheet at the Open House, and three (3) comment sheets and nine (9) emails, from stakeholders following the Open House.

Following the Open House, WM sent an email to the stakeholders on the project contact list that included copies of the display boards and comment sheet. Subsequently, a number of stakeholders asked for their names to be removed from the project contact list.

The key issues raised by stakeholders at Open House #1, and through correspondence afterwards, were as follows:

- Odours from waste and gas
- Groundwater contamination
- Monitoring of future impacts
- Further contamination of site
- Increased noise from traffic
- Removal of mature trees

- Property value impacts
- Economic growth impacts
- Entrances along Carp Road
- Inconsistencies in mapping
- Formation of WCEC PLC
- Traffic flow patterns on-site

A summary report on Open House #1 is included as Appendix B.

3.3 Open House #2

The intent of Open House #2 was to address the comments received by the end of the comment period. Further, it provided stakeholders who did not attend Open House #1 with an opportunity to review draft material related to the WCEC ECA, including the Design and Operations Report (D&O), Environmental Monitoring Plan (EMP), and Best Management Plans (BMP). The Open House showed display boards that summarized comments received by the end of the comment period and provided an overview of the draft material related to the WCEC ECA. WM staff and consultants were available to discuss with stakeholders the comments received, draft ECA materials, receive further comments, and answer any related questions. As stakeholders arrived, WM personnel asked them to sign-in and provided them with a comment sheet that included questions regarding the draft information presented. Stakeholders had an option of filling out a comment sheet on-site or providing comments by mail, email, or fax.



Thirteen (13) individuals registered at Open House #2.

WM staff and consultants received comments and questions from stakeholders at the Open House. WM staff received no comment sheets at the Open House and two (2) emails from stakeholders following the Open House.

Following the Open House, WM sent an email to the stakeholders on the project contact list that included copies of the display boards and comment sheet.

The key issues raised by stakeholders at Open House #2, and through correspondence afterwards, were as follows:

- Clarify explanation of groundwater impacts
- Build turn lanes into site before construction
- Place berms along William Mooney Road
- Show diversion facilities on overall site plan
- Reduce overall volume of the landfill site
- Change slope and height of landfill to reduce footprint
- Clarify explanation of interior forests to north of landfill

A summary report on Open House #2 is included as Appendix C.

3.4 Project Website

A project specific website (<u>http://wcec.wm.com</u>) was launched during the ToR stage, maintained throughout the EA process, and continued during the ECA process. The website was established to provide clear and accurate information to stakeholders as well as opportunities for participants to give feedback to WM.

The website includes up-to-date information about current study activities, notices of upcoming meetings, summaries of previous meetings, and a library of relevant background reports. In addition, stakeholders are able to submit comments to WM through the website.

3.5 Project Office

The WM site office, at 2301 Carp Road in West Carleton, was open to the public as the project office. This office allows stakeholders and the public to drop in during regular business hours and speak to WM staff without a set appointment. Up-to-date information about current study activities and study reports are also posted at the project office.

3.6 WCEC Project Liaison Committee (PLC)

The WCEC Project Liaison Committee (PLC) was formed during the WCEC ECA process to provide input and guidance, and make recommendations for all aspects of the landfill expansion project during both the development and ongoing operation of the project. The PLC is comprised of 12 members, as follows:

- Seven forming members, including:
- Five West-End Councillors of the City of Ottawa; and
- Two employees of WM.
- Three local community members.
- Two business community members.



The WCEC PLC has no formal authority and/or powers over the design or operation of the WCEC.

3.7 Consultation with Aboriginal Communities

As discussed previously, the following First Nation and Métis organizations were contacted during the ECA:

- Algonquins of Ontario
- Métis Nation of Ontario

The Algonquins of Ontario and Metis Nation of Ontario organizations were contacted at the outset of the ECA to provide them with an opportunity to participate in the open houses and individual consultations.

No requests for participation in ECA consultation events have been received to date.

Copies of the notification provided to the First Nation and Metis organizations are included in Appendix D.

3.8 Consultation with Government Agencies

As discussed previously, various federal, provincial, municipal, conservation authority, and energy utility organizations were contacted during the ECA.

These government agencies were contacted at the outset of the ECA to provide them with an opportunity to participate in the open houses and individual consultations.

Various comments were received from government agencies during the ECA consultation events to date.

Copies of the above correspondence are included in Appendix E.

4. Comments

The consultation activities undertaken during the ECA process resulted in comments being received from various stakeholders. A summary of these comments and how they were considered in the preparation of the ECA is provided in Table 1.

Table 1. Stakeholder Comments on West Carleton Environmental Centre (WCEC) Draft Environmental Compliance Approval (ECA)

Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA	WM Response to Comments on WCEC Draft ECA
City of Ottawa Council				
Committee Recommendation, As Amended: That Council endorse the comments contained in Document 3 as the City's comments on Waste Management of Canada Corporation's Environmental Assessment for a New Landfill Footprint at the West Carleton Environmental Centre (WCEC) (September 2012), and direct staff to forward the approved comments to the Ministry of the Environment and Waste Management of Canada Corporation, as amended by the following.				
 That the capacity being considered at the WCEC landfill be reduced to 4 million cubic metres capacity, based on 400,000 tonnes per year for the period of ten years; and, 	We proposed a new landfill of 6.5 million m ³ based upon receipt of approximately 400,000 tonnes of solid waste per year, over a period of approximately 10 years. This volume includes solid waste and daily and interim cover material.	The approved EA allows for a site capacity of 6.5 million m ³ .	Not Accepted – The Environmental Assessment approved a landfill expansion of 6,500,000 m ³ for waste and daily cover. Final cover is not included in this volume. The site will receive up to 400,000 t/yr of solid non-hazardous waste, including residential, institutional, commercial and industrial waste. Additional solid non-hazardous waste may be received at the site, which will be primarily used as cover material.	The Environmental Assessment approved a landfill expansion of 6.5 million m ³ for solid non-hazardous waste and daily cover. Additional solid non-hazardous materials may be received at the site that will primarily be used as potential Alternative Daily Cover (ADC) material or purposes stipulated in Design and Operations report (e.g., road building).
That the Ministry put in place programs and policies necessary to move the ICI sector from its current 17 percent diversion rate to the Ministry's target of 60 percent diversion before considering new or expanded landfills to dispose of residual ICI wastes; and	We have proposed the WCEC as an integrated waste management facility that will provide diversion and disposal services. In the projection of the need for capacity for the new landfill we have assumed an average 2% annual increase in diversion within the IC&I sector. Further details on the rationale for the undertaking are provided in Chapter 3 of the Final EA Report.	None	Not Accepted - Non-hazardous materials accepted for diversion will not be counted as part of the licensed weight going into the site, including materials identified for potential use as Alternative Daily Cover (ADC) or landfill road building materials in WM's Design and Operations report (e.g. wood chips, aggregate, crushed glass). All materials used for daily cover or road building within the landfill footprint should be counted as part of the licensed weight going into the landfill.	The Environmental Assessment approved a landfill expansion of 6.5 million m ³ for solid non-hazardous waste and daily cover. Only solid non-hazardous materials placed in landfill expansion should be considered as part of approved landfill expansion volume of 6.5 million m ³ .
 That the proposed WCEC landfill expansion contain a comprehensive groundwater protection program to collect and treat all leachate produced during the contamination lifespan of the facility; and 	We have developed and implemented a comprehensive environmental monitoring plan (EMP), which includes groundwater monitoring. The EMP is approved by the MOE and results of the monitoring are regularly reported to the MOE. We have established Contaminant Attenuation Zones (CAZs) as per MOE Guideline B-7 (Reasonable Use) where potential groundwater contamination from the existing closed landfill was identified beyond the site boundary. We monitor groundwater conditions within the CAZs to assess groundwater quality and the attenuation of impacted groundwater to Reasonable Use limits. In addition, we are responsible for undertaking and funding of the post- closure care of the existing closed landfill in keeping with the CofA issued by the MOE. This includes ongoing groundwater monitoring for the duration of time over which the existing landfill has the potential to generate contaminants (contaminating life). We must post and maintain financial assurance in the form of an irrevocable letter of credit issued by a Canadian Chartered Bank in favour of the Province to ensure the safe closure and long- term management of the existing landfill. The proposed new landfill will be designed to meet Ontario Regulation 232/98, which includes double-liner design, leachate collection, and groundwater monitoring requirements, and post-closure care will be applicable to the new landfill. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	for review and comment prior to construction. WM shall post the Plan on their website for a thirty day public review. All monitoring reports shall be made publically available on WM's website.	Accepted. WM has revised the Environmental Monitoring Plan (EMP) for the site to reflect the closure of the existing landfill and the development of a new landfill footprint north of the existing landfill. WM will continue the existing leachate management program, including operation of 11 purge wells and collection of leachate from the lined portions of the closed landfill. The proposed landfill expansion includes an engineered landfill base 3.1 metres in thickness designed in full compliance with MOE Landfill Standards Generic Double Liner Option II. MOE approval has been issued for a treatment plant to accept leachate, and to treat the same to meet City of Ottawa Sewer Use Bylaw criteria. Treated leachate will be discharged to the sanitary sewer. WM has developed two (2) contingency methods of disposal for leachate: disposal on an expanded poplar/willow forest (on-site); and trucking off- site to an alternate approved sewage works. Annual monitoring reports will be submitted, within 90 days following conclusion of calendar year being reported on, to the Ministry of Environment (MOE) Ottawa District Manager, the City of Ottawa and the Public Liaison Committee (PLC). They will also be posted on a publically accessible website.	No further comment.

Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA	WM Response to Comments on WCEC Draft ECA
That the groundwater protection program include best Management Practices and Mitigation to handle current and future potential impacts; and	We have committed to the development of Best Management Practices and mitigation regarding groundwater quality and flow. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	To be determined in the development of EPA conditions	Not Accepted – EA Commitments in Table 8-2 indicate, "WM will prepare an implementation plan for the design and construction of a purge well system (or other approved mitigation measure) in order to control leachate migration from the existing unlined (closed) landfill, if necessary. The implementation plan will be prepared and submitted to the MOE concurrent with the application for approval under the EPA for the new WCEC landfill facility." No implementation plan has been provided, and no explanation as to why this is not required is provided.	The utilization of additional purge wells to control leachate migration from the unlined landfill is a contingency measure that would only be implemented if necessary, based on the results of future monitoring programs. Therefore, the implementation plan for future purge wells has been addressed in the Environmental Monitoring Plan (EMP) report, Section 7.4.1 entitled "Groundwater Contingency Plan". The feasibility of installing purge wells to control leachate migration is described in that section of the EMP. The data evaluation procedures that would be used to assess whether purge wells (or other appropriate contingency measure) are required are described in Section 7.1 entitled "Groundwater Evaluation" of the EMP. If the results of the data evaluation indicate a need for corrective action (Step 4 of the Groundwater Data Evaluation Method, Section 7.1 of EMP), the contingency plan process would be implemented per Section 7.4.1 and Figure 6 of the EMP.
That proposed WCEC landfill contain a comprehensive groundwater monitoring program to assure effectiveness of the groundwater protection program; and	We have committed to the development of a program for monitoring groundwater quality and flow. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	To be determined in the development of EPA conditions	Not Accepted – EA Commitments in Table 8-2 indicate WM will, "Establish concentration limits on the effluent infiltrating to the groundwater from the unlined pond stages." The Environmental Monitoring Program (EMP) submitted by WM does not fulfill this commitment. The EMP explicitly states surface water from the stormwater ponds and infiltration basins will not be compared to surface water parameters, but will instead be used to monitor and interpret groundwater conditions down gradient of the stormwater ponds and infiltration basins.	Since the effluent from the unlined stages of the stormwater management (SWM) ponds will infiltrate to the groundwater table, the effluent will become part of the groundwater regime and will ultimately be governed by the MOE's groundwater standards, as specified in Section 10(3) of Ontario Regulation 232/98 and measured at the property boundary. In addition, performance monitoring of the SWM pond water quality will be conducted through visual inspections and water quality testing. The procedures that are to be used for this performance monitoring of the SWM ponds are described in Appendix 8-C of the Development & Operations Report prepared by WSP Canada Inc. These procedures include effluent concentration limits based on field measurements and laboratory water quality testing that will be used to assess SWM pond performance and to take various levels of corrective action, if necessary. In the event of a major spill or other upset where there is a threat of SWM pond contamination, the performance assessment procedures specify that the lined pond outlet valve is to be closed and not re- opened until acceptable laboratory results are received and visual inspections confirm acceptable water quality.
That the groundwater monitoring program include on-site and off-site monitoring including private wells within 3 kilometres of the landfill; and,	We have committed to the monitoring of groundwater quality and flow on-site and within the site-vicinity. The location of any private wells that may be included in this program will be identified within the EMP. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	To be determined in the development of EPA conditions	Not Accepted – the groundwater monitoring program does not include monitoring of private wells within 3 kilometres of the landfill.	Monitoring of private wells within 3 kilometres of the landfill would not, in our opinion, provide additional effectiveness to the groundwater protection program. Groundwater monitoring is most effective in areas on and immediately surrounding the landfill, where the groundwater flow directions are known and potential releases from the landfill can be detected. The groundwater monitoring program described in the EMP is an effective means of monitoring water quality and providing protection to the local aquifer and neighbouring water supplies.
 That the MOE require Waste Management to: Require WM to invite the five West-end Councillors (West Carleton-March, Kanata North, Kanata South, Stittsville and 	We have committed to continue to participate on and support the Community Liaison Committee (CLC), or a similar body, formed for the WCEC.	To be determined in the development of EPA conditions	Accepted. The five West-end Councillors (West Carleton- March, Kanata North, Kanata South, Stittsville and Rideau- Carleton) have been invited to participate on the WCEC PLC.	No further comment.
Rideau- Carleton) to participate on the PLC.	Further details on the CLC are provided in Section 7.8 of the Final EA Report.			
That city staff and the Ministry of the Environment be invited to attend to all PLC meetings.	Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	See above	Undetermined - EPA documents and PLC public announcements do not include details regarding the WCEC PLC meetings.	Terms of Reference for the WCEC PLC will address details regarding the WCEC PLC meetings.
That WM advertise in the local community papers and through the West-end Councillors to solicit participation in the PLC.		See above	Accepted. Request for nominations for the WCEC PLC closed March 7, 2014.	No further comment.

	Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA	WM Response to Comments on WCEC Draft ECA
	That the PLC membership consist of a minimum of six (6) members of the public and two (2) members of the local business community.		See above	Not Accepted – WCEC PLC invitation for 3 members of the public and 2 members of the local business community.	WCEC PLC representation includes 3 members of the public and 2 members of the local business community, as well as five West End councilors representing the constituents of the five wards.
	That a Terms of Reference be developed and approved by the participants on the PLC.		See above	Undetermined - EPA documents and PLC public announcements do not include details regarding the WCEC PLC meetings.	Terms of Reference for the WCEC PLC will address details regarding the WCEC PLC meetings.
	That the PLC monitors and makes recommendations on WM's operational issues, complaints and environmental issues and that WM formally responds to the PLC on these recommendations and provides timelines for action plans.		See above	Undetermined - EPA documents and PLC public announcements do not include details regarding the WCEC PLC meetings.	Terms of Reference for the WCEC PLC will address details regarding the WCEC PLC meetings.
	That WM provide an agenda at a minimum of one week in advance of the PLC meeting that includes a summary of the complaints, operational issues and issues of non- compliance for discussion at the meeting.		See above	Undetermined - EPA documents and PLC public announcements do not include details regarding the WCEC PLC meetings.	Terms of Reference for the WCEC PLC will address details regarding the WCEC PLC meetings.
	That WM provide written minutes to the members of the PLC within one week of the meeting.		See above	Undetermined - EPA documents and PLC public announcements do not include details regarding the WCEC PLC meetings.	Terms of Reference for the WCEC PLC will address details regarding the WCEC PLC meetings.
	That WM host the PLC meeting.		See above	Undetermined - EPA documents and PLC public announcements do not include details regarding the WCEC PLC meetings.	Terms of Reference for the WCEC PLC will address details regarding the WCEC PLC meetings.
	That WM post all PLC agendas, reports, meeting minutes immediately as they become available on a website hosted by WM and dedicated to the PLC. Members of the public at large must have access to the website; and,		See above	Undetermined - EPA documents and PLC public announcements do not include details regarding the WCEC PLC meetings.	Terms of Reference for the WCEC PLC will address details regarding the WCEC PLC meetings.
4.	new transfer stations in Ottawa and Lanark and amendments to Environment Compliance Approvals for existing transfer stations in Ottawa and Lanark, a request to the Ministry of the Environment that a condition be inserted that residual waste from waste brought to the facility from outside Ottawa or Lanark not be eligible for depositing at any landfill in Ottawa; and,	We are proposing to provide solid waste disposal capacity for residential and IC&I sectors in the City of Ottawa and County of Lanark, referred to as the Good Neighbour Zone. This may include residual waste from future and existing transfer stations in the City of Ottawa and County of Lanark. Further details on the rationale for the undertaking are provided in Supporting Document #1 of the approved ToR and Chapter 3 of the Final EA Report.	The approved EA includes an Ontario-wide service area.	Not Accepted – WM Design and Operations report states, "An Ontario- wide service area is requested for the landfill site expansion." Note this is in contrast to commitment made during the EA for a service area City of Ottawa and County of Lanark, referred to as the Good Neighbour Zone.	EPA application is for an Ontario-wide service area, which is consistent with the approved EA that included an Ontario-wide service area, which includes the City of Ottawa and County of Lanark, referred to as the Good Neighbour Zone (GNZ).
5.	Transportation be reworded to the following "The comments that we have on the Transportation Detailed Impact Assessment are related to road design required to accommodate the site, which will be addressed if the EA is	We have committed to communicate with the City of Ottawa regarding transportation-related matters to be addressed if the EA is approved, including road design and level of service changes and/or improvements. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	None	Not Accepted – Proposed addition of turning lanes as shown in WM Design and Operations Report (Appendix 3-C) not adequate.	Proposed road modifications, including the turning lanes shown in Design and Operations report, meet City of Ottawa requirements and they were accepted by City of Ottawa transportation department in EA and zoning amendment.
6.	contribute a proportionate share to the cost of widening Carp Road.	We have committed to communicate with the City of Ottawa regarding transportation-related matters to be addressed if the EA is approved, including acquiring all necessary permits and/or approvals (e.g., site plan). Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	None	Not Accepted – Proposed addition of turning lanes as shown in WM Design and Operations Report (Appendix 3-C) not adequate.	Proposed road modifications, including the turning lanes shown in Design and Operations report, meet City of Ottawa requirements and they were accepted by City of Ottawa transportation department in EA and zoning amendment.

Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA	WM Response to Comments on WCEC Draft ECA
City of Ottawa Environment Committee				
taken by WM and their consultants to exclude process upset conditions from the odour impact assessment studies. The City considers "upset conditions", examples of which include temporary inoperability of the landfill gas collection system, cracks or fissures in the landfill cover, or the installation of additional landfill gas collection infrastructure, to have significant potential for generating odours which may have an impact to areas surrounding the landfill. The detailed impact assessment for odour also excluded odours arising from on-site daily cover contaminated soil stockpiles and the use of compost "anticipated to generate odour similar to the background odour from agriculture farming" to be used to promote vegetative growth on top of the clay cover. While upset conditions and compost use are anticipated by WM to be infrequent and short induration, they are considered to be the most likely cause of odour events related to the site. Excluding evaluation of these types of occurrences results in an underestimation of the potential impact the proposed facility may have on the surrounding community. The City also has concerns that, excluding the conditions described above, the combined odour impact from site- wide operations is	We have modelled potential odour impacts of the new landfill footprint and other WCEC facilities, as per the requirements of O.Reg 419/05. The model addresses duration, extent and frequency of effects, but not emergency situations (i.e. upset conditions), as these types of events would be covered in the contingency measures and management of the landfill operations. We have assumed the baseline conditions or "existing case" to be the existing closed landfill (i.e., closed on September 30, 2011), which would not reflect historic odour levels of the former operating landfill. However, historic odour complaint data recorded for the former operating landfill provided context for the frequency analysis completed for the preferred option in the Detailed Impact Assessment Report. We have also committed to prepare Contingency Plans related to atmosphere (i.e., odour, dust, noise, landfill gas) as part of the EPA approvals process and prior to construction. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	None	Not Accepted. WM Ambient Air Quality Monitoring Program only provides for monitoring of VOCs during regular operating hours from May to September. Landfill odour is often most noticeable during dawn and dusk (e.g. outside of operating hours) and are not restricted to summer months. All odour complaints made should be communicated to the WCEC PLC immediately following reporting; WM should not wait until publication of annual monitoring report to disclose complaints. Odour BMP does not include the other odour generating waste processing facilities on-site, such as the compost facility, transfer station, leachate treatment facility, landfill gas to energy facility or contaminated soil stockpiles.	Summer is typically the worst-case condition for landfill odours and VOCs. The MOE typically requests that ambient monitoring for VOCs be completed at landfill during the summer in order to capture worst-case conditions. VOC samples are taken over short durations in order to assess the overall site's emissions during specific worst-case meteorological conditions (calm winds, no precipitation) and these conditions typically occur during the early morning or later in the evening. This time period also coincides with typical landfill operating periods. Design and Operations Report includes a complaint response plan describing actions to be taken in response to complaints from the public or others, such as the WCEC PLC, concerning site activities, including the actions to be taken to identify the activity causing the complaint and minimize future occurrences. The Odour BMP does include provisions for other generating waste processing facilities on-site such as the transfer station, leachate treatment, landfill gas to energy facility or contaminated soils. At this time, we are not intending to develop a compost site and therefore this is not discussed within the Odour BMP. However, if the site was to consider a compost operation, WM would need to update the Odour BMP to address this source.
EA, but rather WM committed to developing an Odour Best Management Plan during the EPA permitting process, following approval of the EA. The City supports the Ministry of the Environment in ceasing operations if persistent and on- going odour issues occur at the site until such time the odour issues are resolved. The City recommends that WM be required to better define the	We have included the Odour Enforcement Mechanism within Appendix C of the EA and Appendix D in the ToR. We have committed to develop an Odour and Landfill Gas BMP Plan and to ensure that the principles of the Odour Enforcement Mechanism are implemented. We have committed to consult with stakeholders, such as the City of Ottawa and the public, in the development of the BMPs, like Odour and landfill Gas BMP Plan. Further details on WM commitments are provided in Chapter 8, Table 8-2 of the Final EA Report.	None	Not Accepted - Odour Enforcement Mechanism lacks sufficient detail to determine how it will be implemented and how the community will benefit.	Odour Enforcement Mechanism and Odour and Landfill Gas BMPs provide process for implementation and potential community benefit.
	We have committed to the implementation of a Property Value Protection Plan, as outlined in Appendix C of the EA. When the EA and related ECA approvals have been secured and associated conditions are known, specific properties covered by the Property Value Protection Plan will be identified by municipal address and owners of said properties will be formally notified by letter. We are also prepared to discuss with the City potential approaches to addressing City concerns regarding their civil exposure as a result of the new landfill and any potential impacts to surrounding properties. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.		Not Accepted – No Property Value Protection Plan provided as part of the EPA support documentation.	Property Value Protection Plan, as provided in approved EA, is included with EPA application, following completion of EPA studies.

Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA
Prioritization of waste diversion activities – the EA defines the undertaking as being "a new landfill footprint that will provide residual waste disposal capacity of approximately 6.5 million cubic meters". The term "residual waste" is not defined in the ToR or EA glossaries. However, WM defined the term "residual waste" in the approved ToR as residual material remaining following waste diversion (i.e. to recycling). The use of this term in the EA does not draw the same clear distinction. The City is supportive of WM's waste diversion efforts and believes that landfill disposal should be of secondary importance.	We have defined the undertaking in the EA as "a new landfill footprint that will provide residual waste disposal capacity of approximately 6.5 million cubic meters". We have also defined residual waste in the ToR as material remaining following waste diversion. We have assumed a 2% average annual increase in the diversion rate within the IC&I sector over the projected life of the new landfill. Therefore, the residual waste to be disposed of at the new landfill would be material remaining after the projected diversion within the IC&I sector. Further details on residual waste and diversion are provided in Supporting Document #1 of the approved ToR and in Chapter 3 of the Final EA Report.	None	Not Accepted. Not addressed in EPA support documentation.
 Proposed process for project amendment – the final EA includes a proposed process to be followed to make "major" or "minor" amendments to the project to allow WM to respond to unforeseen changes in conditions. In the case where WM considers the change to be minor, it is proposed that the categorization be discussed with the MOE Environmental Assessment and Approvals Branch (EAAB) (in Toronto) and an amendment review document be prepared and submitted to affected stakeholders for review and comment. The minor change would then be implemented, subject to MOE EAAB approval. The City disagrees with the proposed self-categorization of amendments, especially in cases where proposed project changes may affect municipal infrastructure, bylaws or property values. Affected stakeholders, including City staff, should be consulted, as "minor" amendments, (e.g. what, where and how project facilities are built) may result in significant environmental effects for impacted stakeholders. This consultation should take place well in advance of any postings on the MOE's Environmental Bill of Rights Website 		None	Not Accepted. Not addressed in EPA support documentation.
Service area – the proposed service area for the waste diversion facilities and landfill should be restricted to exclusively the municipal boundary of the City of Ottawa and Lanark County. Contaminated soils brought to the site should also be restricted to those generated within the City limits and Lanark County. The service area for all waste diversion facilities at the site should be restricted to the City of Ottawa and Lanark County so as to prevent materials from other communities being brought into the landfill through these recycling facilities.	We have proposed an Ontario-wide service area for the new landfill, based upon historic operations and future business opportunities for the site. This includes the fact that we have historically made provisions with the City of Ottawa to reserve between 75% and 90% of our landfill disposal capacity at this site for waste generated within the City of Ottawa and the Good Neighbour Zone (GNZ). We have projected that the remaining 10% to 25% of the waste received would be largely event- based, including non- hazardous soils from site remediation projects and non- hazardous waste from industrial processes. We have also projected that residential and IC&I waste regularly collected from outside the City of Ottawa and GNZ would not generally be part of the anticipated waste stream. Our proposed Ontario- wide service area is consistent with the service area permitted for the former Carp Road Landfill. Further detail on the proposed service area is provided in Chapter 3 of the Final EA Report.		Not Accepted – WM Design and Operations report states, "An Ontar wide service area is requested for the landfill site expansion." Note this is in contrast to commitment made during the EA for a serv area City of Ottawa and County of Lanark, referred to as the Good Neighbour Zone.

CA	WM Response to Comments on WCEC Draft ECA
	Design and Operations Report addresses the use of the term residual waste in a manner consistent with the TOR and EA.
	The EA addresses the matter of project amendment process and consultation with stakeholders prior to their implementation.
Ontario- a service ood	EPA application is for an Ontario-wide service area, which is consistent with the approved EA that included an Ontario-wide service area, which includes the City of Ottawa and County of Lanark, referred to as the Good Neighbour Zone (GNZ).

Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA	WM Response to Comments on WCEC Draft ECA
Site Plan Control Approval – the EA notes that the landfill expansion is not subject to Site Plan Control Approval. Legal opinion has been sought on this matter and indicates that the City does have the authority to require Site Plan Control Approval to amend the current site plan to reflect new development, including the acquisition of additional lands. The proposed project includes the addition of a number of "facilities" listed as part of the expanded operation of the Ottawa Waste Management Facility, including what the City and the MOE refer to as "waste processing and transfer facilities" (WP&TF putrescible and WP&TF non- putrescible). These buildings will require both Site Plan Control Approval and Environmental Compliance Approvals from the MOE.	We have determined that the new landfill is not subject to site plan control approval by the City of Ottawa. However, we have also committed to acquire all necessary permits and/or approvals for the new landfill and other facilities at the WCEC. Further details on approvals are provided in Chapter 9 of the Final EA Report. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	None	Not addressed in EPA support documentation. Waste Management has made an application to the City of Ottawa for a Zoning By-law Amendment for the West Carleton Environmental Centre. The details of the application, along with submitted plans and studies, can be found on the City of Ottawa Development Applications resource page. Waste Management hosted a Community Information Session on Tuesday, May 6, 2014. Notes from this meeting produced by Waste Management, City of Ottawa, and the Assistant for Councillor Shad Qadri are also found on the City of Ottawa Development Applications resource page. Follow this link to the webpage for more information: http://app01.ottawa.ca/postingplans/appDetails.jsf?lang=en≈ pld=924L3M.	We will pursue a Site Plan Control application to the City of Ottawa in keeping with the provisions of the approved zoning amendment from the City of Ottawa for the landfill expansion.
<i>Traffic</i> – Traffic around the Carp Landfill is a large concern to the City and local residents. The City is requesting that WM provide a merge lane for traffic exiting the Carp Road facility. The City requires that WM participate in any future discussions on the widening of Carp Road.	We have committed to maintain communication with the City regarding transportation matters, including existing and future level of service. This may involve certain road improvements, including a potential merge lane for traffic exiting the WCEC facility and widening of Carp Road. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	None	Not Accepted – Proposed addition of turning lanes as shown in WM Design and Operations Report (Appendix 3-C) not adequate.	Proposed road modifications, including the turning lanes shown in Design and Operations report, meet City of Ottawa requirements and they were accepted by City of Ottawa transportation department in EA and zoning amendment.
Reporting – WM must develop a comprehensive program to ensure that there are no future groundwater and surface water impacts on and around the site. All MOE and Sewer Use orders and issues of non-compliance identified should be reported to the Mayor, West-end Councillors (West Carleton-March, Kanata North, Kanata South, Stittsville and Rideau-Goulbourn) and the General Manager of Environmental Services within 24 hours of identification. An annual report should be provided to the Mayor, five West-end Councillors and the General Manager of Environmental Services that ensure there are no environmental impacts resulting from the operations at the facility. In addition, WM should report all odor, litter, noise and traffic complaints received by WM or forwarded to WM by other parties to the General Manager of Environmental Services and the five West-end Councillors within 24 hours of receipt. The report should include how and when the problem was addressed. A summary of all complaints and how they were resolved must be prepared and issued with the agenda for the Public Liaison Committee meeting.	We have committed to develop and implement an EMP and BMPs for monitoring and reporting on groundwater and surface water conditions at the WCEC and to provide notice and communication to the MOE, City, and CLCLC. We are required to develop and submit to the MOE an annual report for the existing closed landfill. This report is copied to the City and CLCLC and posted on the WCEC website. We have committed to develop and submit to the MOE an annual report for the new landfill and other facilities at the WCEC. This report will be copied to the City and CLCLC and posted on the WCEC website. We have developed and maintained a system for the receipt of and follow-up to public complaints related to operations of the existing closed landfill, including any odour, litter, noise, and traffic complaints. We have committed to continue a system for the receipt of and follow-up to public complaints. We have committed to complaints related to operation of the new landfill and other WCEC facilities, including any odour, litter, noise, and traffic complaints. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	environmental assessment compliance	Not Accepted – The PLC (including the 5 West-End Councillors), MOE and the General Manager of Environmental Services must be made aware of all community complaints regarding landfill impacts (e.g. groundwater, surface water, noise, dust, odour, noise, traffic) in a timely fashion. All public complaints should be addressed with the PLC at the next scheduled PLC meeting, in addition to being published in annual monitoring report. Adverse air quality events should be reported to the MOE (and the PLC and the General Manager of Environmental Services) upon receipt of confirmation from laboratory testing, not within 2 weeks of receipt as outlined in proposed Ambient Air Quality Monitoring Program.	Design and Operations Report includes a complaint response plan describing actions to be taken in response to complaints from the public or others, such as the WCEC PLC, concerning site activities, including the actions to be taken to identify the activity causing the complaint and minimize future occurrences.
Public Liaison Committee – WM must have a public liaison committee that invites members of the public, local businesses, local Councillors and City Staff that meets at a minimum on a quarterly basis. Issues that should be reviewed are complaints received, environmental compliance operational changes and other issues that may be brought forward of concern to the local community.	We have committed to continue to participate on and support the Community Liaison Committee (CLC), or a variation thereof, formed for the WCEC. Further details on the CLC are provided in Section 7.8 of the Final EA Report. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	The Minister has made a Community Liaison Committee a requirement -otherwise none of the specific issues identified by the City are represented	Not Accepted – WCEC PLC invitation for 3 members of the public, not the 6 requested by Ottawa City Council.	WCEC PLC representation includes 3 members of the public and 2 members of the local business community, as well as five West End councilors representing the constituents of the five wards.

Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA
Waste Diversion – The City supports waste diversion away from landfill. Significant improvements will need to be made to the ICI and C&D waste diversion rate to achieve the Provinces goal of 60%. The City is requesting that the Province set established waste diversion targets for ICI and C&D waste diversion for the service area of the landfill and that the total allowable annual tonnage accepted at the Carp Landfill, if approved, decrease at the same percentage rate from the first year annual tonnage of 400,000 tonnes. Contaminated soils that are landfilled must be counted towards the sites annual capacity, even if they are used as daily, interim or final cover.	We have proposed a new landfill footprint of 6.5 million cubic meters to provide residual waste disposal capacity needed after an assumed 2% average annual increase of the diversion rate in the IC&I sector over the projected life of the new landfill. The residual waste to be disposed of at the new landfill would be material remaining after the projected diversion within the IC&I sector. We have projected an approximate annual tonnage of 400,000 tonnes of solid waste to be disposed of at the new landfill. An additional 15% of daily and interim cover material will be required using the proposed ratio of 6:1 based on our operating experience. Therefore, the total volume of waste and daily and interim cover material for the new landfill will be approximately 6.5 million cubic metres. Additional airspace will be required for the final cover material used to close the new landfill. Further details on waste diversion and service area are provided in Chapter 3 of the Final EA Report. Further details on waste volume and cover material are provided in Chapter 6 of the Final EA Report.	None	Not Accepted – The Environmental Assessment approved a landfill expansion of 6,500,000 m ³ for waste and daily cover. Final cover is r included in this volume. The site will receive up to 400,000 t/yr of solid non-hazardous waste including residential, institutional, commercial and industrial waste. Additional solid non-hazardous waste may be received at the site, w will be primarily used as cover material. Non-hazardous materials accepted for diversion will not be counted part of the licensed weight going into the site, including materials identified for potential use as Alternative Daily Cover (ADC) or landfi road building materials in WM's Design and Operations report (e.g. v chips, aggregate, crushed glass). All materials used for daily cover or road building within the landfill footprint should be counted as part of the licensed weight going into landfill.
<i>Site Capacity</i> – The City requests that the overall approved capacity of the landfill site should be reduced from the requested 6.5M cubic meters to 5M cubic meters which would reflect WM's commitment to waste diversion from landfilling.	We proposed a new landfill of 6.5 million m ³ based upon receipt of approximately 400,000 tonnes of solid waste per year, over a period of approximately 10 years. This volume includes solid waste and daily and interim cover material. We have proposed the WCEC as an integrated waste management facility that will provide diversion and disposal services. We have assumed an average annual increase in diversion within the IC&I sector of 2% in the projection of the need for capacity for the new landfill. Further details on the rationale for the undertaking are provided in Chapter 3 of the Final EA Report.		Not Accepted – The Environmental Assessment approved a landfill expansion of 6,500,000 m ³ for waste and daily cover. Final cover is a included in this volume. The site will receive up to 400,000 t/yr of solid non-hazardous waste including residential, institutional, commercial and industrial waste. Additional solid non-hazardous waste may be received at the site, w will be primarily used as cover material.
<i>Final Expansion</i> – The City is requesting a guarantee from WM and the province that this be the last time that WM be allowed to request an expansion of the Carp Landfill Site.	We have proposed a new landfill footprint of 6.5 million cubic metres based upon historic operations and future business opportunities over a 10 year planning horizon given future uncertainty associated with the factors that may affect volume of disposal capacity required, but we did not exclude the future residual waste disposal needs for residential and IC&I sectors in the City of Ottawa and Good Neighbour Zone (GNZ). We have not precluded an ongoing need for disposal capacity for residual waste for the residential and IC&I sectors in the City of Ottawa and GNZ beyond a 10 year planning horizon. Further details on the rationale for the undertaking are provided in Chapter 3 of the Final EA Report.		Not Accepted. Not addressed in EPA support documentation.

Α	WM Response to Comments on WCEC Draft ECA
fill is not	The Environmental Assessment approved a landfill expansion of 6.5 million m ³ for solid non-hazardous waste and daily cover.
ste, e. , which	Additional solid non-hazardous materials may be received at the site that will primarily be used as potential Alternative Daily Cover (ADC) material or purposes stipulated in Design and Operations report (e.g., road building).
ed as	
ndfill g. wood	
ll nto the	
fill is not	The Environmental Assessment approved a landfill expansion of 6.5 million m ³ for solid non-hazardous waste and daily cover.
ste, e. , which	Additional solid non-hazardous materials may be received at the site that will primarily be used as potential Alternative Daily Cover (ADC) material or purposes stipulated in Design and Operations report (e.g., road building).
	This ECA application addresses the landfill expansion identified in the approved EA. A future landfill expansion would involve another EA and ECA process.

Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA
City of Ottawa Environment Committee – Councillor	Marianne Wilkinson		
The landfill has to be limited to no more than 10 years as an interim step towards using technology to deal with waste. The City should say that the EA is inadequate in dealing with alternative methods; that it speaks about recycling and reuse	We have proposed a new landfill footprint of 6.5 million cubic metres based upon historic operations and future business opportunities over a 10 year planning horizon given future uncertainty associated with the factors that	The approved EA allows for a site capacity of 6.5 million m ³ .	Not Accepted – The Environmental Assessment approved a landfill expansion of 6,500,000 m ³ for waste and daily cover. Final cover is included in this volume. The site will receive up to 400,000 t/yr of solid non-hazardous waste
but there are no obligations to do so, and that a landfill so close to thousands of homes should not be located at this site. If one is approved the province should include a plan to reach the minimum of 60% recycling on site and the volume approved reduced to the amount needed for remnant waste over 10 years. The timeline has been removed from the application and needs to be a firm end time with a reduced size that makes recycling happen.	may affect volume of disposal capacity required, but we did not exclude the future residual waste disposal needs for residential and IC&I sectors in the City of Ottawa and Good Neighbour Zone (GNZ). We have not precluded an ongoing need for disposal capacity for residual waste for the residential and IC&I sectors in the City of Ottawa and GNZ beyond a 10 year planning horizon. We have proposed a new landfill footprint of 6.5 million cubic meters to provide residual waste disposal capacity needed after an assumed 2% average annual increase of the diversion rate in the IC&I sector over the projected life of the new landfill. The residual waste to be disposed of at the new landfill would be material remaining after the		including residential, institutional, commercial and industrial waste. Additional solid non-hazardous waste may be received at the site, w will be primarily used as cover material.
	projected diversion within the IC&I sector.		
The area served must not be all of Ontario but only to serve local needs.	We have proposed an Ontario-wide service area for the new landfill, based upon historic operations and future business opportunities for the site.	The approved EA includes an Ontario-wide service area.	Not Accepted – WM Design and Operations report states, "An Ontar wide service area is requested for the landfill site expansion." Note this is in contrast to commitment made during the EA for a serv
	This includes the fact that we have historically made provisions with the City of Ottawa to reserve between 75% and 90% of our landfill disposal capacity at this site for waste generated within the City of Ottawa and the Good Neighbour Zone (GNZ). We have projected that the remaining 10% to 25% of the waste received would be largely event-based, including non-hazardous soils from site remediation projects and non-hazardous waste from industrial processes. We have also projected that residential and IC&I waste regularly collected from outside the City of Ottawa and GNZ would not generally be part of the anticipated waste stream. Our proposed Ontario-wide service area is consistent with the service area permitted for the former Carp Road Landfill.		Area City of Ottawa and County of Lanark, referred to as the Good Neighbour Zone.
The owner must be required to not only provide turn lanes into the site (including a right turn speed up lane) but also provide funds for a future widening (based on ownership frontage which occurs on both sides of the road).	We have committed to maintain communication with the City regarding transportation matters, including existing and future level of service. This may involve certain road improvements, including a potential merge lane for traffic exiting the WCEC facility and widening of Carp Road.	None	Not Accepted – Proposed addition of turning lanes as shown in WM Design and Operations Report (Appendix 3-C) not adequate.
My preference is to have this proposal refused based on the previous problems on the first landfill that have caused great concern and reduced quality of life for nearby residents. This is	We have closed the existing landfill and implemented mitigation and monitoring measures to address odour and groundwater issues.	None	Not Accepted.
not a location suitable for a landfill today.	We have committed to developing and implementing mitigation and monitoring measures for groundwater, surface water, and air for the new landfill footprint.		
	Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.		
	We have assessed the suitability of the location for the proposed new landfill in the EA.		
	Further details on the land use and socio-economic assessments are provided in Chapter 6 of the Final EA Report.		

CA	WM Response to Comments on WCEC Draft ECA
ndfill ver is not	The Environmental Assessment approved a landfill expansion of 6.5 million m^3 for solid non-hazardous waste and daily cover.
waste, iste. ite, which	Additional solid non-hazardous materials may be received at the site that will primarily be used as potential Alternative Daily Cover (ADC) material or purposes stipulated in Design and Operations report (e.g., road building).
Ontario- a service ood	EPA application is for an Ontario-wide service area, which is consistent with the approved EA that included an Ontario-wide service area, which includes the City of Ottawa and County of Lanark, referred to as the Good Neighbour Zone (GNZ).
n WM	Proposed road modifications, including the turning lanes shown in Design and Operations report, meet City of Ottawa requirements and they were accepted by City of Ottawa transportation department in EA and zoning amendment
	No further comment.

Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA
City of Ottawa Environment Committee – Councillor S	Shad Qadri	·	
Time has shown to us that the prior decision to incorporate landfills into our surroundings has proven challenging. Burying garbage is an antiquated means of disposal. With the availability of modern diversion technologies there is no reasonable rationale to have another landfill footprint added to our community. One of the challenges we face with this potential site is that it is located in an ever growing community and it would be situated on fractured limestone that is classified as highly vulnerable to groundwater contamination, not to mention the fact that without the inclusion of a diversion component to the EA, it only deals with the landfill component. I am opposed to the creation of another landfill footprint at Carp Road.	We have proposed the WCEC as an integrated waste management facility that will provide both diversion and disposal services. We have assumed an average annual increase in diversion within the IC&I sector of 2% in the projection of the need for capacity for the new landfill. Further details on the rationale for the undertaking are provided in Chapter 3 of the Final EA Report. We have undertaken an EA for the proposed new landfill that has examined potential impacts on the environment, identified potential mitigation measures, and determined the net effects on natural, social, cultural and economic environments. Further details on the impact assessments are provided in Chapter 6 of the Final EA Report. We have closed the existing landfill and implemented mitigation and monitoring measures to address odour and groundwater issues. We have committed to developing and implementing mitigation and monitoring measures for groundwater, surface water, and air for the new landfill footprint. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	None	Not Accepted.
City of Ottawa City of Ottawa Staff			
Section 4 of the Terms of Reference (ToR) provided a Description of and Rationale for the Undertaking, where the undertaking was defined in the ToR as being: "to provide additional disposal capacity for solid non- hazardous waste at the WCEC in the form of a new landfill footprint, in order to allow WM to continue to manage its current commercial operations and support the continuation of its business operations. The existing facility is expected to reach its currently approved disposal capacity in September 2011. WM is, through this undertaking, proposing to provide disposal capacity for the residual wastes remaining after waste diversion". Chapter 3 of the EA - Overview of the Undertaking defines the undertaking as being: "a new landfill footprint that will provide residual waste disposal capacity of approximately 6.5 million cubic meters". The term —residual waste is not defined in the ToR or EA glossaries. It is clear in the ToR that residual waste refers to waste remaining after waste diversion, whereas use of the term in EA does not make this distinction clear. Given that the term as expressed in the approved ToR refers to post-diversion residual waste, it follows that the undertaking expressed in the EA should be consistent.	We have defined the undertaking in the EA as "a new landfill footprint that will provide residual waste disposal capacity of approximately 6.5 million cubic meters". We have also defined residual waste in the ToR as material remaining following waste diversion. We have assumed a 2% average annual increase in the diversion rate within the IC&I sector over the projected life of the new landfill. Therefore, the residual waste to be disposed of at the new landfill would be material remaining after the projected diversion within the IC&I sector. Further details on residual waste and diversion are provided in Chapter 3 of the Final EA Report.	The approved EA included a site volume of 6.5 million m ³ .	Not Accepted – The Environmental Assessment approved a landfill expansion of 6,500,000 m ³ for waste and daily cover. Final cover is r included in this volume. The site will receive up to 400,000 t/yr of solid non-hazardous waste, including residential, institutional, commercial and industrial waste. Additional solid non- hazardous waste may be received at the site, w will be primarily used as cover material. Non-hazardous materials accepted for diversion will not be counted a part of the licensed weight going into the site, including materials identified for potential use as Alternative Daily Cover (ADC) or landfil road building materials in WM's Design and Operations report (e.g. w chips, aggregate, crushed glass). All materials used for daily cover or road building within the landfill footprint should be counted as part of the licensed weight going into the landfill.
Section 4.4.1.1 - Air Quality: NOx emissions from both landfill operations and the 400 series highways will combine with methane releases to produce ground level ozone. Will the proponent monitor this pollutant?	We have committed to developing and implementing a Combustion Haul Route BMP after EA approval for the new landfill and prior to construction, which will include monitoring requirements. We have committed to consult with stakeholders, such as the City and public, in the development of BMPs, like the Combustion Haul Route BMP. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	None	Not Accepted. Ground level zone not included in Ambient Air Quality Monitoring Program.

CA	WM Response to Comments on WCEC Draft ECA
	No further comment.
ndfill ver is not waste, iste. site, which unted as als landfill (e.g. wood dfill g into the	The Environmental Assessment approved a landfill expansion of 6.5 million m ³ for solid non-hazardous waste and daily cover. Additional solid non-hazardous materials may be received at the site that will primarily be used as potential Alternative Daily Cover (ADC) material or purposes stipulated in Design and Operations report (e.g., road building). Only solid non-hazardous materials placed in landfill expansion should be considered as part of approved landfill expansion volume of 6.5 million m3.
Quality	At this time ground level ozone was not identified as a compound of concern nor a request to be monitored as an EA Commitment. Therefore, ground level ozone is not included in the ambient monitoring program.

Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA	WM Response to Comments on WCEC Draft ECA
Section 4.4.1.1 - Air Quality: Please advise of the location(s) of the meteorological station(s) that were used in the dispersion modeling.	We have noted the location of the meteorological station that was used in the dispersion modeling as "on-site" in Chapter 4 of the Final EA Report.	None	Not Accepted. Not shown in Ambient Air Quality Monitoring Program report.	"Five years of local meteorological data (2006-2010) were used in the AERMOD dispersion model. The meteorological data set for the WCEC was developed by the MOE's Environmental Monitoring and Reporting Branch (EMRB). This dataset, however, was based on the MOE's regional meteorological data for Eastern Ontario, which considers surface data from the Ottawa International Airport. The Ottawa Airport, which is located approximately 25 km away from the landfill, is the nearest weather station providing the desired meteorological parameters on an hourly basis. The EMRB adjusted the regional meteorological dataset to account for local land uses surrounding the WCEC facility. The data set provided by the EMBR was used directly in the dispersion model, with no changes or alterations conducted by RWDI. Consultation on the meteorological dataset was conducted with Jinliang (John) Liu from the EMRB.
Section 5.1.4.1 - Conceptual Design of Landfill Footprint Options (page 5-16): In place waste density of 0.725 t/m ³ is low given modern landfill equipment.	We have proposed an in-place waste density of 0.725 t/m ³ based on our operating experience with our other landfills in North America.	None	Not Accepted. The estimated waste density seems low given the use of modern compaction equipment and the requirement, as documented in the Design and Operations report to "compact waste making three (3) to four (4) passes on each loose lift."	No further comment.
Section 5.1.7 Net Effect Analysis – Landfill Footprints: No inclusion of odour effects under upset conditions: Page 5-36 – What happens when the gas collection system is down?	We have committed to developing and implementing an Odour and Landfill Gas BMP after EA approval for the new landfill and prior to construction, which will include monitoring requirements. We have committed to consult with stakeholders, such as the City and public, in the development of BMPs, like the Odour and Landfill Gas BMP. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	To be determined in the development of EPA conditions	 Not Accepted. WM Ambient Air Quality Monitoring Program only provides for monitoring of VOCs during regular operating hours from May to September. Landfill odour is often most noticeable during dawn and dusk (e.g. outside of operating hours) and are not restricted to summer months. All odour complaints made should be communicated to the WCEC PLC immediately following reporting; WM should not wait until publication of annual monitoring report to disclose complaints. Odour BMP does not include the other odour generating waste processing facilities on-site, such as the compost facility, transfer station or contaminated soil stockpiles 	Summer is typically the worst-case condition for landfill odours and VOCs. The MOE typically requests that ambient monitoring for VOCs be completed at landfill during the summer in order to capture worst-case conditions. VOC samples are taken over short durations in order to assess the overall site's emissions during specific worst-case meteorological conditions (calm winds, no precipitation) and these conditions typically occur during the early morning or later in the evening. This time period also coincides with typical landfill operating periods. The Odour BMP does include provisions for other generating waste processing facilities on-site such as the transfer station, leachate treatment, landfill gas to energy facility or contaminated soils. At this time, WM has no plans for a compost site and therefore this is not discussed within the Odour BMP. If the site was to consider a compost operation, WM would need to update the Odour BMP to address this source.
 Table 5-7, Raw Leachate Characteristics: <i>It is noted sulphide was analysed with a result of</i> 4.2 mg/l. This is a contaminant of concern as it exceeds Sewer Use Discharge criteria and therefore must be removed by the leachate treatment process. Sulphide is often present as odourous hydrogen sulphide in leachate. Sulphide should therefore be included as a contaminant in Section 6.7.1.3 Odour, Preferred Leachate Management System in the Odour Detailed Impact Assessment. 	We concur that a new leachate agreement with the City will be required and will define leachate quantity/quality parameters. We have committed to acquire all necessary permits and/or approvals for the new landfill and other facilities at the WCEC. Further details on leachate treatment and disposal are provided in Chapter 5 of the Final EA Report. Further details on approvals are provided in Chapter 9 of the Final EA Report. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	To be determined in the development of EPA conditions	Undetermined. Leachate agreement to be negotiated with Sewer Use Program. Ambient Air Quality Monitoring Program includes monitoring of total reduced sulfur (TRS) samples to be collected in tedlar bags at the same locations as the VOC samples. This analysis will account for all speciated sulphurs (as TRS) including Methyl Mercaptan, Ethyl Mercaptan, Dimethyl Sulphide, and Hydrogen Sulphide. TRS values will be expressed as Hydrogen Sulphide.	No further comment.
Historical Complaints: It is difficult to ascertain from the Detailed Impact Assessment that historical complaints have been reviewed or incorporated in determining the probability of future complaints. Given that odour has been an issue for nearby residences, complaints received previous to baseline conditions should be discussed. Historical complaints recorded are not referenced in Detailed Impact Assessment. It is suggested that historical complaints be referenced and used to determine most impacted receptors for the Frequency Analysis. Please identify where historical complaints were used to determine probability of future complaints and development/implementation of mitigation measures.	We have assumed the baseline conditions or "existing case" to be the existing closed landfill (i.e., closed on September 30, 2011), which would not reflect historic odour levels of the former operating landfill. However, historic odour complaint data recorded for the former operating landfill provided context for the frequency analysis completed for the preferred option in the Detailed Impact Assessment Report. We have also committed to prepare Contingency Plans related to atmosphere (i.e., odour, dust, noise, landfill gas) as part of the EPA approvals process and prior to construction. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	None	 Not Accepted. WM Ambient Air Quality Monitoring Program only provides for monitoring of VOCs during regular operating hours from May to September. Landfill odour is often most noticeable during dawn and dusk (e.g. outside of operating hours) and are not restricted to summer months. All odour complaints made should be communicated to the WCEC PLC immediately following reporting; WM should not wait until publication of annual monitoring report to disclose complaints. Odour BMP does not include the other odour generating waste processing facilities on-site, such as the compost facility, transfer station, leachate treatment facility, landfill gas to energy facility or contaminated soil stockpiles 	Summer is typically the worst-case condition for landfill odours and VOCs. The MOE typically requests that ambient monitoring for VOCs be completed at landfill during the summer in order to capture worst-case conditions. VOC samples are taken over short durations in order to assess the overall site's emissions during specific worst-case meteorological conditions (calm winds, no precipitation) and these conditions typically occur during the early morning or later in the evening. This time period also coincides with typical landfill operating periods. The Odour BMP does include provisions for other generating waste processing facilities on-site such as the transfer station, leachate treatment, landfill gas to energy facility or contaminated soils. At this time, WM has no plans for a compost site and therefore this is not discussed within the Odour BMP. If the site was to consider a compost operation, WM would need to update the Odour BMP to address this source.

Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA	WM Response to Comments on WCEC Draft ECA
During the Air Technical session of 2011, WM mentioned that they would be discussing a potential plan to address upset conditions. More than 25% of the comments obtained on the Air Technical Sessions were related to upset conditions. These concerns must be addressed in the Detailed Impact Assessment Report. Upset conditions are not discussed in the Odour Detailed Impact Assessment. No upset condition assessments have been provided in the Atmospheric - Odour - Detailed Assessment Impact. We request to have upset conditions evaluated, no matter how remote. During the Air Technical Session, WM indicated that a plan to address upset conditions would be discussed (re odour). This was not discussed in the draft EA. Please identify where upset conditions plan has been addressed in the final EA document.	We have modelled potential odour impacts of the new landfill footprint and other WCEC facilities, as per the requirements of O.Reg 419/05. The model addresses duration, extent and frequency of effects, but not any emergency situations (i.e. upset conditions), as these types of events would be covered in the contingency measures and management of the landfill operations. We have assumed the baseline conditions or "existing case" to be the existing closed landfill (i.e., closed on September 30, 2011), which would not reflect historic odour levels of the former operating landfill. However, historic odour complaint data recorded for the former operating landfill provided context for the frequency analysis completed for the preferred option in the Detailed Impact Assessment Report. We have also committed to prepare Contingency Plans related to atmosphere (i.e., odour, dust, noise, landfill gas) as part of the EPA approvals process and prior to construction. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	None	annual monitoring report to disclose complaints. Odour BMP does not include the other odour generating waste processing facilities on-site, such as the compost facility, transfer station, leachate treatment facility, landfill gas to energy facility or contaminated soil stockpiles	Summer is typically the worst-case condition for landfill odours and VOCs. The MOE typically requests that ambient monitoring for VOCs be completed at landfill during the summer in order to capture worst-case conditions. VOC samples are taken over short durations in order to assess the overall site's emissions during specific worst-case meteorological conditions (calm winds, no precipitation) and these conditions typically occur during the early morning or later in the evening. This time period also coincides with typical landfill operating periods. The Odour BMP does include provisions for other generating waste processing facilities on-site such as the transfer station, leachate treatment, landfill gas to energy facility or contaminated soils. At this time, WM has no plans for a compost site and therefore this is not discussed within the Odour BMP. If the site was to consider a compost operation, WM would need to update the Odour BMP to address this source.
Odour best management practice plan not provided for review. Odour best management practice plan to be prepared as part of the ECA process.	We have committed to developing and implementing an Odour and Landfill Gas BMP after EA approval for the new landfill and prior to construction, which will include monitoring requirements. We have committed to consult with stakeholders, such as the City and public, in the development of BMPs, like the Odour and Landfill Gas BMP. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	To be determined in the development of EPA conditions	for monitoring of VOCs during regular operating hours from May to September. Landfill odour is often most noticeable during dawn and dusk (e.g. outside of operating hours) and are not restricted to summer months. All odour complaints made should be communicated to the WCEC PLC immediately following reporting; WM should not wait until publication of annual monitoring report to disclose complaints. Odour BMP does not include the other odour generating waste processing facilities on-site, such as the compost facility, transfer station, leachate treatment facility, landfill gas to energy plant or contaminated soil stockpiles.	Summer is typically the worst-case condition for landfill odours and VOCs. The MOE typically requests that ambient monitoring for VOCs be completed at landfill during the summer in order to capture worst-case conditions. VOC samples are taken over short durations in order to assess the overall site's emissions during specific worst-case meteorological conditions (calm winds, no precipitation) and these conditions typically occur during the early morning or later in the evening. This time period also coincides with typical landfill operating periods. The Odour BMP does include provisions for other generating waste processing facilities on-site such as the transfer station, leachate treatment, landfill gas to energy facility or contaminated soils. At this time, WM has no plans for a compost site and therefore this is not discussed within the Odour BMP. If the site was to consider a compost operation, WM would need to update the Odour BMP to address this source.
Landfill gas best management practice plan not provided for review. Landfill gas best management practice plan to be prepared as part of the ECA process.	We have committed to developing and implementing an Odour and Landfill Gas BMP after EA approval for the new landfill and prior to construction, which will include monitoring requirements. We have committed to consult with stakeholders, such as the City and public, in the development of BMPs, like the Odour and Landfill Gas BMP. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	To be determined in the development of EPA conditions	 for monitoring of VOCs during regular operating hours from May to September. Landfill odour is often most noticeable during dawn and dusk (e.g. outside of operating hours) and are not restricted to summer months. All odour complaints made should be communicated to the WCEC PLC immediately following reporting; WM should not wait until publication of annual monitoring report to disclose complaints. Odour BMP does not include the other odour generating waste processing facilities on-site, such as the compost facility, transfer station, leachate treatment facility, landfill gas to energy plant or contaminated soil stockpiles. Problem areas identified by the total hydrocarbon "walkabout" survey (to be done in the spring and the early fall) should be repaired in less than the two (2) months identified in the Ambient Air Quality Monitoring Program. 	Summer is typically the worst-case condition for landfill odours and VOCs. The MOE typically requests that ambient monitoring for VOCs be completed at landfill during the summer in order to capture worst-case conditions. VOC samples are taken over short durations in order to assess the overall site's emissions during specific worst-case meteorological conditions (calm winds, no precipitation) and these conditions typically occur during the early morning or later in the evening. This time period also coincides with typical landfill operating periods. The Odour BMP does include provisions for other generating waste processing facilities on-site such as the transfer station, leachate treatment, landfill gas to energy facility or contaminated soils. At this time, WM has no plans for a compost site and therefore this is not discussed within the Odour BMP. If the site was to consider a compost operation, WM would need to update the Odour BMP to address this source.

Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA	WM Response to Comments on WCEC Draft ECA
Noise management plan including mitigation, commitments and monitoring not provided for review. Noise best management practice plan to be prepared as part of the ECA process.	We have committed to developing and implementing an Noise BMP after EA approval for the new landfill and prior to construction, which will include monitoring requirements. We have committed to consult with stakeholders, such as the City and public, in the development of BMPs, like the Noise BMP. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	To be determined in the development of EPA conditions	Not Accepted – EA Commitments in Table 8-2 indicate, the Noise BMP may include, "24 hour monitoring for impulse noise sources at NR4 (292 Moonstone Road South) and NR8 (112 Willowlea Road). No monitoring at these locations proposed. Noise BMP indicates the use of bird bangers are prohibited, while Gull Management Plan states, "It is our recommendation that the primary deterrent method should be the use of a variety of pyrotechnic devices." These are contradictory statements.	The original EA Commitment that included the provision to consider 24-hour continuous monitoring for impulsive noises was reviewed and determined to perhaps not be beneficial to the assess the potential for noise impacts. The Noise Monitoring Plan provides a program that includes both impulsive and continuous noise sources that would allow the entire site to be evaluated. In addition, there is a provision to measure the noise from any impulsive source in order to ensure that the overall noise levels from these devices would be within the MOE's guidelines. The wording related to bird bangers and pyrotechnic devices has been updated to not provide contradictory statements. Allowable Gull Management devices are clearly provided with either operational limitations or overall sound level limitations.
Sources of Odour - the top 4 as listed in the response to the comments are discussed in the Odour Detailed Impact Assessment (p. 6 to 11). However, the crack and fissures in the landfill surface are listed as upset conditions and not evaluated. Please provide supporting information to justify why the crack and fissure can be considered an upset condition when they are listed as a main cause of odour or include them in the assessment.	We have modelled potential odour impacts of the new landfill footprint and other WCEC facilities, as per the requirements of O.Reg 419/05. The model addresses duration, extent and frequency of effects, but not any emergency situations (i.e. upset conditions), as these types of events would be covered in the contingency measures and management of the landfill operations. We have listed cracks and fissures in the landfill surface as a main cause of odour when they occur due to their intensity, but they have been characterized as an upset condition due to their infrequency. Further details on cracks and fissures and odour are provided in Chapter 6 of the Final EA Report.	None	 WM Ambient Air Quality Monitoring Program only provides for monitoring of VOCs during regular operating hours from May to September. Landfill odour is often most noticeable during dawn and dusk (e.g. outside of operating hours) and are not restricted to summer months. All odour complaints made should be communicated to the WCEC PLC immediately following reporting; WM should not wait until publication of annual monitoring report to disclose complaints. Odour BMP does not include the other odour generating waste processing facilities on-site, such as the compost facility, transfer station, leachate treatment facility, landfill gas to energy plant or contaminated soil stockpiles. 	Summer is typically the worst-case condition for landfill odours and VOCs. The MOE typically requests that ambient monitoring for VOCs be completed at landfill during the summer in order to capture worst-case conditions. VOC samples are taken over short durations in order to assess the overall site's emissions during specific worst-case meteorological conditions (calm winds, no precipitation) and these conditions typically occur during the early morning or later in the evening. This time period also coincides with typical landfill operating periods. The Odour BMP does include provisions for other generating waste processing facilities on-site such as the transfer station, leachate treatment, landfill gas to energy facility or contaminated soils. At this time, WM has no plans for a compost site and therefore this is not discussed within the Odour BMP. If the site was to consider a compost operation, WM would need to update the Odour BMP to address this source.
6.7.3 Surface Water Figure 6-25 - We would suggest extending the impermeable liner up to the top of both berms to prevent unwanted seepage though the banks.	We have committed to consult with stakeholders, such as the City, in the development of ECAs and BMPs, like the Surface Water BMP Plan, which would address this issue. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	To be determined in the development of EPA conditions	Undetermined. Not addressed in EPA support documentation.	We confirm that the stormwater pond liner we confirm that liner will extend to the top of berm as shown on Drawing 9 in the Design and Operations report.
Ensure Mississippi Valley Conservation is consulted re water quality and quantity.	We have committed to consult with stakeholders, such as MVCA, in the development of ECAs and BMPs, like the Surface Water BMP Plan, which would address this issue. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	To be determined in the development of EPA conditions	Undetermined. EPA supporting documentation posted on WCEC project website.	We confirm that the MVCA was consulted in the development of the EMP and BMPs.
Section 6.2 - Mitigation and/or Compensation Measures, page 13: Provide details for the measures included in the bulleted list (e.g. how far away from the SWM system will refuelling and handling of hazardous substances take place? What is considered to be —excessivell in bullet #5?, restoration details, etc.).	We have committed to prepare Contingency Plans related to groundwater, surface water, and atmosphere (i.e., odour, dust, noise, landfill gas) as part of the EPA approvals process and prior to construction. We have outlined potential contingency measures to be considered in the development of contingency plans. We have committed to consult with stakeholders, such as the City, in the development of Contingency Plans. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	To be determined in the development of EPA conditions	Accepted. Contingency Plans provided for major and minor spills in Design and Operations Report. Any spills should be communicated to the WCEC PLC immediately following reporting; WM should not wait until publication of annual monitoring report to disclose complaints.	No further comment.
Section 6.2 - Mitigation and/or Compensation Measures, page 13: What happens when the 1:100 event is exceeded? Where does the runoff go to? If stage 1 bay in SWM facility is closed off, but 1:100 is exceeded, what is the proposed response (i.e. How will contamination be contained)?	process and prior to construction.	To be determined in the development of EPA conditions	Accepted. Contingency Plans provided for contamination of the stormwater management pond in Design and Operations Report.	No further comment.

Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA	WM Response to Comments on WCEC Draft ECA
Section 6.2 - Mitigation and/or Compensation Measures, page 17: How will accidents and malfunctions be —limited?	We have committed to prepare Contingency Plans related to groundwater, surface water, and atmosphere (i.e., odour, dust, noise, landfill gas) as part of the EPA approvals process and prior to construction.	To be determined in the development of EPA conditions	Accepted. Contingency Plans provided in Design and Operations Report.	No further comment.
	We have outlined potential contingency measures to be considered in the development of contingency plans.			
	We have committed to consult with stakeholders, such as the City, in the development of Contingency Plans.			
	Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.			
Page 19: Section 7: Description of SWM discharge is not detailed enough. For example, there is no discussion of volumes and the quality of	We have committed to developing and implementing a Surface Water BMP Plan as part of the EPA approvals process and prior to construction.	To be determined in the development of EPA conditions	Accepted. Stormwater pond design information provided in Design and Operations Report. Monitoring of groundwater level and quality impacts to be carried out	No further comment.
water to be discharged in the end. Depending on quality, there could be an impact on surface or ground water.	We have committed to consult with stakeholders, like the City, in the development of ECAs and BMPs, such as the Surface Water BMP Plan, which would address potential volume and water quality issues.		downstream of infiltration ponds as identified in Environmental Monitoring Program (EMP).	
	Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.			
Section 8.1.1 - Environmental Effects Monitoring, page 20: It suggests that water quality and quantity will be monitored at certain locations 6 times per year.	We have committed to developing and implementing a Surface Water BMP Plan and Contingency Plan as part of the EPA approvals process and prior to construction.	To be determined in the development of EPA conditions	Accepted. The stormwater pond #1 and #2 and the infiltration basins will be inspected monthly or after every severe storm (>25 mm) or after any on-site spills or upsets unless frozen or covered with snow.	No further comment.
This seems to be very limited monitoring given the need to close / separate Stage 1 from Stage 2 of the SWM facility when there is an issue.	We have committed to consult with stakeholders, like the City, in the development of BMPs and Contingency Plans, such as the Surface Water BMP Plan, which would address potential surface water monitoring and emergency measures.		Any spills should be communicated to the WCEC PLC immediately following reporting; WM should not wait until publication of annual monitoring report to disclose complaints.	
Please clarify how the ongoing monitoring will occur for the purposes of the emergency response (i.e. Stage 1 isolation from Stage 2 SWM).	Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.			
Section 8.2 - Commitments, part b: Confirm the frequency of monitoring, in light of the above comment.	We have committed to developing and implementing a Surface Water BMP Plan as part of the EPA approvals process and prior to construction.	To be determined in the development of EPA conditions	Accepted. The stormwater pond #1 and #2 and the infiltration basins will be inspected monthly or after every severe storm (>25 mm) or after any on-site spills or upsets unless frozen or covered with snow.	No further comment.
	We have committed to consult with stakeholders, like the City, in the development of BMPs, such as the Surface Water BMP Plan, which would address potential surface water monitoring.		Any spills should be communicated to the WCEC PLC immediately following reporting; WM should not wait until publication of annual monitoring report to disclose complaints.	
	Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.			
Traffic around the Carp Landfill is a large concern to the City and local residents. The City is requesting that WM provide a merge lane for traffic exiting the Carp Road facility. The City requires that WM participate in any future discussions on the widening of Carp Road.	We have committed to maintain communication with the City regarding transportation matters, including existing and future level of service. This may involve certain road improvements, including a potential merge lane for traffic exiting the WCEC facility and widening of Carp Road.	None	Not Accepted – Proposed addition of turning lanes as shown in WM Design and Operations Report (Appendix 3-C) not adequate.	Proposed road modifications, including the turning lanes shown in Design and Operations report, meet City of Ottawa requirements and they were accepted by City of Ottawa transportation department in EA and zoning amendment.
	Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.			
Section 6.7.8.3 - Mitigation and/or Compensation Measures for Land Use: <i>"WM committed to developing a property value protection plan as part of the EA."</i>	We have committed to the implementation of a Property Value Protection Plan, as outlined in Appendix C of the EA. When the EA and related ECA approvals have been secured and associated conditions are known, specific properties covered by the Property Value Protection Plan will be	None	Not Accepted – No Property Value Protection Plan provided as part of the EPA support documentation.	Property Value Protection Plan, as provided in approved EA, is included with EPA application, following completion of EPA studies.
We would like to see WM provide indemnification of the City in this regard and that they (WM) are fully prepared to provide any and all compensation where applicable with no cost or responsibility attributed to the City due to the landfill expansion and its possible effects. The City recommends that all	discuss with the City potential approaches to addressing City concerns regarding their civil exposure as a result of the new landfill and any potential impacts to surrounding properties.			
properties within five (5) kilometres of the site be included in the property value protection program.	Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.			

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The discussion on possible mitigation measures for potential land use conflicts is vague, and more detailed discussion of the buffering and screening would be helpful.	We have committed to develop and implement BMPs and landscape/vegetation treatments to mitigate potential visual impacts caused by the new landfill and other facilities at the WCEC. Further details on visual screening are provided in Chapter 6 of the Final EA Report. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	To be determined in the development of EPA conditions	Undetermined. Addition of wooded areas and restoration of wetland discussed in Biology BMP. EA Commitments in Table 8-2 indicate WM will, "Create or restore old field habitat where possible on lands owned by WM." The Biology BMP notes, "The commitment to create some field habitat where possible has not been addressed above. Virtually all available area on-site that is not being used for landfill operations will be used for either forest compensation or wetland restoration, and there is therefore no surplus land where old field can be created."	As virtually all available area on-site that is not being used for landfill operations will be used for either forest compensation or wetland restoration, then there is no surplus land where old-field can be created.
There is no mention of the end use of the facility. The EA indicates that this will be determined as part of the EPA permitting process. It is unclear if, once the landfill reaches its ultimate capacity with the proposed expansion, will the waste processing and transfer facilities also cease to operate?	We have committed to consult with stakeholders, such as the City and public, regarding the End-Use and Closure Plans. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	To be determined in the development of EPA conditions	Not Accepted. Design and Operations Report indicates WM will ultimately decide at the time of closure which facilities are no longer required and could be decommissioned. Operation of the WTPF and composting will continue beyond the life of the landfill.	Design and Operations Report indicates that we will decide at the time of closure which facilities are no longer required and could be decommissioned. Operation of the WTPF and composting will continue beyond the life of the landfill.
8. Monitoring and Commitments for the Undertaking Page 8-4 – How are you going to monitor odours on the landfill mound?	We have committed to developing and implementing an Odour and Landfill Gas BMP after EA approval for the new landfill and prior to construction, which will include monitoring requirements. We have committed to consult with stakeholders, such as the City and public, in the development of BMPs, like the Odour and Landfill Gas BMP. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	To be determined in the development of EPA conditions	 Not Accepted. WM Ambient Air Quality Monitoring Program only provides for monitoring of VOCs during regular operating hours from May to September. Landfill odour is often most noticeable during dawn and dusk (e.g. outside of operating hours) and are not restricted to summer months. All odour complaints made should be communicated to the WCEC PLC immediately following reporting; WM should not wait until publication of annual monitoring report to disclose complaints. Odour BMP does not include the other odour generating waste processing facilities on-site, such as the compost facility, transfer station, leachate treatment plant, landfill gas to energy plant or contaminated soil stockpiles. 	Summer is typically the worst-case condition for landfill odours and VOCs. The MOE typically requests that ambient monitoring for VOCs be completed at landfill during the summer in order to capture worst-case conditions. VOC samples are taken over short durations in order to assess the overall site's emissions during specific worst-case meteorological conditions (calm winds, no precipitation) and these conditions typically occur during the early morning or later in the evening. This time period also coincides with typical landfill operating periods. The Odour BMP does include provisions for other generating waste processing facilities on-site such as the transfer station, leachate treatment, landfill gas to energy facility or contaminated soils. At this time, WM has no plans for a compost site and therefore this is not discussed within the Odour BMP. If the site was to consider a compost operation, WM would need to update the Odour BMP to address this source.
8. Monitoring and Commitments for the Undertaking Page 8-4 – At what frequency are you monitoring Atmospheric and Geology/Hydrogeology?	We have committed to prepare EMP(s) and BMPs following approval of the new landfill and prior to construction. These will include mitigation and monitoring measures for groundwater and air. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	·	Accepted. Proposed Environmental Monitoring Plan follows generally accepted practices.	No further comment.
8. Monitoring and Commitments for the Undertaking Page 8-4 – Biology – how does all of this monitoring get reported?	We have committed to developing and implementing a Biology BMP after EA approval for the new landfill and prior to construction, which will include a process for the reporting of monitoring results. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	To be determined in the development of EPA conditions	Accepted. Proposed Environmental Monitoring Plan follows generally accepted practices.	No further comment.
8. Monitoring and Commitments for the Undertaking Table 8.2 – to manage dust, add sweeping of off-site roads as required.	We have committed to developing and implementing a Combustion Haul Route BMP after EA approval for the new landfill and prior to construction, which will include mitigation and monitoring requirements. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	To be determined in the development of EPA conditions	Accepted. Proposed Environmental Monitoring Plan follows generally accepted practices. Dust BMP states, "During particularly adverse conditions, wet sweeping and flushing should be ordered. Under these conditions, wet sweeping is to be done on all internal paved roads and external main access routes. The external haul route sweeping will be limited to off-peak traffic hours for the safety of the operator. "	No further comment.

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Section 8.1.7 - Surface Water Monitoring: This section does not mention full suite of monitoring that is discussed in Detailed Impact Assessment.	We have committed to consult with stakeholders, such as the City, in the development of a Surface Water BMP Plan, including surface water monitoring measures. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	To be determined in the development of EPA conditions	Not Accepted – EA Commitments in Table 8-2 indicate WM will, "Establish concentration limits on the effluent infiltrating to the groundwater from the unlined pond stages." The Environmental Monitoring Program (EMP) submitted by WM does not fulfill this commitment. The EMP explicitly states surface water from the stormwater ponds and infiltration basins will not be compared to surface water parameters, but will instead be used to monitor and interpret groundwater conditions down gradient of the stormwater ponds and infiltration basins.	Since the effluent from the unlined stages of the stormwater management (SWM) ponds will infiltrate to the groundwater table, the effluent will become part of the groundwater regime and will ultimately be governed by the MOE's groundwater standards, as specified in Section 10(3) of Ontario Regulation 232/98 and measured at the property boundary. In addition, performance monitoring of the SWM pond water quality will be conducted through visual inspections and water quality testing. The procedures that are to be used for this performance monitoring of the SWM ponds are described in Appendix 8-C of the Development & Operations Report prepared by WSP Canada Inc. These procedures include effluent concentration limits based on field measurements and laboratory water quality testing that will be used to assess SWM pond performance and to take various levels of corrective action, if necessary. In the event of a major spill or other upset where there is a threat of SWM pond contamination, the performance assessment procedures
				specify that the lined pond outlet valve is to be closed and not re- opened until acceptable laboratory results are received and visual inspections confirm acceptable water quality.
Section 9.9 - Land Use Approvals: Includes a definitive statement that no site plan approval is required. Of significance, is that the consultants indicate in the Impact Assessment that the landfill expansion is not subject to Site Plan Control Approval. We have sought a legal opinion that indicates that <u>the Citv does have the</u> authority to require site plan control approval. There is an <u>existing site plan control agreement</u> applicable to the current Carp landfill site, therefore any new development, including the acquisition of other lands, such as those of the former Laurysen Kitchen, and the development of a number of buildings on the site, must be shown by way of an <u>amendment</u> to the current site plan. Proposed are at least 7 buildings, the sizes of which are not	We understand that while the City's legal opinion is that the City has the authority to require a Site Plan Control Approval, we maintain that this approval is not required given that there is an existing site plan control approval applicable to the current site. We concur that ECAs are required for the new landfill, material recycling facility (MRF), and construction and demolition (C&D) material recycling facility.	None	Not addressed in EPA support documentation.Waste Management has made an application to the City of Ottawa for a Zoning By-law Amendment for the West Carleton Environmental Centre. The details of the application, along with submitted plans and studies, can be found on the City of Ottawa Development Applications resource page. Waste Management hosted a Community Information Session on Tuesday, May 6, 2014. Notes from this meeting produced by Waste Management, City of Ottawa, and the Assistant for Councillor Shad Qadri are also found on the City of Ottawa Development Applications resource page.Follow this link to the webpage for more information: http://app01.ottawa.ca/postingplans/appDetails.jsf?lang=en&appld=924L	We will pursue a Site Plan Control application to the City of Ottawa in keeping with the provisions of the approved zoning amendment from the City of Ottawa for the landfill expansion.
known. However, the list of facilities' listed as part of the expanded operation of the Carp landfill include what the City and the MOE refer to as waste processing and transfer facilities' (WP&TF putrescible and WP&TF non-putrescible). These buildings <u>will require Site Plan</u> Control Approval but <u>are</u> <u>also required to obtain Certificates of Approval from the MOE</u> <u>separate from the C of A</u> approval being sought				
for the landfill itself. The Land Use Detailed Impact Assessment and the EA do not speak to the numerous C of A's that will be required.				
 Those facilities requiring Certificates of Approval include: A material recycling facility (WP&TF non- putrescible); and 				
A construction and demolition material recycling facility (WP&TF non- putrescible).				

Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA	WM Response to Comments on WCEC Draft ECA
Amending the EA provides for a proposed EA amendment process that distinguishes between minor and major amendments that may be necessary in response to unforeseen or unanticipated changes in conditions. Using the example outlined in the EA of an inability to implement the Preferred Leachate Treatment Alternative of Option 1 (leachate discharge to City of Ottawa sanitary sewer) in combination with Option 4 (tree irrigation), the process proposed is that WM would categorize the change as minor or major. If the change is categorized as minor, which WM has in this instance indicated would be the recommendation, it is proposed that WM would then discuss the proposed change and categorization with Ministry of the Environment (MOE) Environmental Assessment and Approvals Branch (EAAB) staff. If MOE EAAB staff agreed that the proposed design change is a minor amendment, WM would then prepare an amendment review document, distribute the amendment review document to directly affected stakeholders (including the City of Ottawa) for review and comment, consider the comments received, and then implement the proposed change subject to MOE EAAB approval. Notwithstanding the EA's commitment to soliciting MOE EAAB concurrence on minor or major amendment categorization, and notwithstanding the EA's commitment to soliciting comments from directly affected stakeholders, including the City of Ottawa, on the resulting amendment review document, it is respectfully suggested that the City and other stakeholders should also be included at the outset, along with the MOE EAAB, in categorizing an amendment as minor or major. This is particularly relevant in terms of an amendment that may affect municipal infrastructure, by-laws, or property values, for example. Whereas the EA has considered major amendments as altering the design of the Preferred Undertaking significantly in terms of what would be built, where it would be built, and how it would be built, in which case a new EA process would be conducted to address the major amendment bein		None	Not Accepted. Not addressed in EPA support documentation.	The EA addresses the matter of project amendment process and consultation with stakeholders prior to their implementation.
The City disagrees with the proposed self-categorization of amendments, especially in cases where proposed project changes may affect municipal infrastructure, bylaws or property values. Affected stakeholders, including City staff, should be consulted, as —minorll amendments, (e.g. what, where and how project facilities are built) may result in significant environmental effects for impacted stakeholders. This consultation should take place in well in advance of any postings on the MOE's Environmental Bill of Rights Website.	We have committed to consult with stakeholders, such as the City and public, on minor amendments to the EA prior to their implementation. Further details on the proposed amendment procedure are provided in Chapter 10 of the Final EA Report.	None	Not Accepted. Not addressed in EPA support documentation.	The EA addresses the matter of project amendment process and consultation with stakeholders prior to their implementation.
Appendix C – Community Commitments Page 1 – In the ToR, WM committed to developing a property value protection plan. This plan has not been developed in the EA. Please provide details of the property value protection plan.	We have committed to the implementation of a Property Value Protection Plan, as outlined in Appendix C of the EA. When the EA and related ECA approvals have been secured and associated conditions are known, specific properties covered by the Property Value Protection Plan will be identified by municipal address and owners of said properties will be formally notified by letter. We are also prepared to discuss with the City potential approaches to addressing City concerns regarding their civil exposure as a result of the new landfill and any potential impacts to surrounding properties. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	A PVP has been required by the approval; Condition requires WM to identify affected property by municipal address and notify the property owners. The City's specific comments are not addressed.	Not Accepted – No Property Value Protection Plan provided as part of the EPA support documentation.	Property Value Protection Plan, as provided in approved EA, is included with EPA application, following completion of EPA studies.

Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA
Appendix C – Community Commitments Appendix 2 - Who is eligible?	We have included the Odour Enforcement Mechanism within Appendix C of the EA and Appendix D in the ToR. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	None	Not Accepted – No Property Value Protection Plan provided as part of EPA support documentation.
Appendix C – Community Commitments Appendix 2, page 3 Claim – the specified period needs to be defined i.e. hours.	We have included the Odour Enforcement Mechanism within Appendix C of the EA and Appendix D in the ToR. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	None	Not Accepted - Odour Enforcement Mechanism lacks sufficient detail determine how it will be implemented and how the community will be
Appendix C – Community Commitments Appendix 2, page 3, Claim – The terms —materially and adversely need to be defined. A detected odour is adverse.	We have included the Odour Enforcement Mechanism within Appendix C of the EA and Appendix D in the ToR. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	None	Not Accepted - Odour Enforcement Mechanism lacks sufficient detail determine how it will be implemented and how the community will be
Appendix C – Community Commitments Appendix 2, page 4 — Payment to local causell needs to be defined – eg. \$10.00 * # hours* # of homes affected =.	We have included the Odour Enforcement Mechanism within Appendix C of the EA and Appendix D in the ToR. Further details on WM commitments are provided in Chapter 8 Table 8-2 of the Final EA Report.	None	Not Accepted - Odour Enforcement Mechanism lacks sufficient detail determine how it will be implemented and how the community will be
Existing Conditions Reports Biology Section 4.1 - Aquatic Survey Results: Tributary B originates in the Goulbourn Wetland and flows southeasterly through the western project envelope. Detailed habitat mapping was attempted during a site visit in early August 2011, but no water was present. There was no defined channel, although the general substrate was primarily sand/silt, with some rocks and cobbles in sections. Based on AECOM's investigations, it appears that Tributary B lacks habitat suitable for supporting a permanent fish community. We would be hesitant to make this type of conclusion, since the region was under a Level II drought for much of August. Conditions would not reflect a typical summer season.	We respectfully submit that the number of samples taken and the diversity of conditions sampled adequately reflect the nature of these streams (i.e., 6 sample events during a range of seasonal conditions over a two-year period – 2006 and 2011) and provide support for the comment on water quality varying from poor to moderate influenced by nutrient enrichment and the presence of E. coli.	None	Not Accepted. Baseline sampling not addressed in EPA support documentation.
Existing Conditions Reports Biology Section 4.1 - Aquatic Survey Results: It is also considered that ongoing disturbance will further impair creek function and deter fish from re- colonizing the reach, even though its hydraulic connection to wetlands is important for surface water conveyance. Specifically, what type of disturbance? Is there any evidence to support this statement? Fish can be found in many agricultural drains, so this type of disturbance does not necessarily result in a complete loss of the fish community.		None	Not Accepted. Not addressed in EPA support documentation.
Existing Conditions Reports Biology Section 4.1 - Aquatic Survey Results: Roadside surveys of Tributary D confirmed the existing condition to be typical of an ephemeral or intermittent watercourse, as the channel contained little or no discernable flow. It is unlikely Tributary D can support a resident fish population, and its likely function is the provision of indirect fish habitat for warmwater baitfish species in downstream reaches. When was this visual survey conducted? If done during summer 2011, drought conditions may have influences these conclusions.	We respectfully submit that the number of samples taken and the diversity of conditions sampled adequately reflect the nature of these streams (i.e., 6 sample events during a range of seasonal conditions over a two-year period – 2006 and 2011) and provide support for the comment on water quality varying from poor to moderate influenced by nutrient enrichment and the presence of E. coli.		Not Accepted. Baseline sampling not addressed in EPA support documentation.

CA	WM Response to Comments on WCEC Draft ECA
part of the	Property Value Protection Plan, as provided in approved EA, is included with EPA application, following completion of EPA studies.
detail to vill benefit.	Odour Enforcement Mechanism and Odour and Landfill Gas BMPs provide process for implementation and potential community benefit.
detail to vill benefit.	Odour Enforcement Mechanism and Odour and Landfill Gas BMPs provide process for implementation and potential community benefit.
detail to vill benefit.	Odour Enforcement Mechanism and Odour and Landfill Gas BMPs provide process for implementation and potential community benefit.
t	We have prepared a Surface Waste Assessment Report for submission with the ECA application. This Report relies upon surface water documentation included in the approved WCEC EA. In our opinion, the number of samples taken and the diversity of conditions sampled adequately reflect the nature of these streams (i.e., 6 sample events during a range of seasonal conditions over a two-year period – 2006 and 2011) and provide support for the comment on water quality varying from poor to moderate influenced by nutrient enrichment and the presence of E. coli.
	We have not stated that this type of disturbance will result in the complete loss of the fish community, rather that it will deter fish from re- colonizing the reach.
t	We have prepared a Surface Waste Assessment Report for submission with the ECA application. This Report relies upon surface water documentation included in the approved WCEC EA. In our opinion, the number of samples taken and the diversity of conditions sampled adequately reflect the nature of these streams (i.e., 6 sample events during a range of seasonal conditions over a two-year period – 2006 and 2011) and provide support for the comment on water quality varying from poor to moderate influenced by nutrient enrichment and the presence of E. coli.

Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA	WM Response to Comments on WCEC Draft ECA
 Existing Conditions Reports Biology Section 4.1.2 - Stream Flow Table 2 - Discharge and Staff Gauge Readings: Why are there so many blank spaces in this table? It would have been better to have more discharge data from the wet weather influenced days (May 18, 2006, July 26, 2006, and October 24, 2006). We would recommend collecting additional discharge measurements at a variety of water levels to fill these data gaps. 	We respectfully submit that the number of samples taken and the diversity of conditions sampled adequately reflect the nature of these streams (i.e., 6 sample events during a range of seasonal conditions over a two-year period – 2006 and 2011) and provide support for the comment on water quality varying from poor to moderate influenced by nutrient enrichment and the presence of E. coli.	None	Not Accepted. Baseline sampling not addressed in EPA support documentation.	We have prepared a Surface Waste Assessment Report for submission with the ECA application. This Report relies upon surface water documentation included in the approved WCEC EA. In our opinion, the number of samples taken and the diversity of conditions sampled adequately reflect the nature of these streams (i.e., 6 sample events during a range of seasonal conditions over a two-year period – 2006 and 2011) and provide support for the comment on water quality varying from poor to moderate influenced by nutrient enrichment and the presence of E. coli.
Existing Conditions Reports Biology Section 5.2 Terrestrial Surveys: The report identifies on page 28 that the actual area of the significant wetland may be larger than what was mapped by the MNR. The actual extent of the significant wetland should be determined and mapped to assist in understanding the impact of the proposed project on the wetland.	We conducted the assessment using MNR mapping and field observations and, while we indicated that the actual area of the significant wetland may be larger than the area that was mapped by MNR, this did not materially limit our understanding of wetland area, for the purposes of characterizing baseline conditions.	None	Not Accepted. Baseline sampling not addressed in EPA support documentation.	We conducted the assessment using MNR mapping and field observations and, while we indicated that the actual area of the significant wetland may be larger than the area that was mapped by MNR, this did not materially limit our understanding of wetland area, for the purposes of characterizing baseline conditions.
Detailed Impact Assessment Reports - Odour Draft EA Comment re: Odour: No justification provided for use of the 90th percentile for the working face odour emission rate. The 90th percentile could underestimate the potential for odour emissions at the working face. Please provide rationale for use of 90th percentile. Final EA: 90th percentile was used for the working face odour emission rate. No rationale provided.	We applied the 90th percentile for the working face odour emission rate on the basis of professional experience and an analysis by an odour panel, as noted in Supporting Document 5-C.	None	Not Accepted. Not addressed in EPA support documentation.	This method was reviewed by the MOE in the review of the Impact Assessment Technical Reports provided as part of the EA approval. The same approved approach was used in the EPA documentation.
Detailed Impact Assessment Reports - Odour Page 24 indicates that electronic copies of input and output modeling files are provided but does not indicate where. Please identify where these files are found.	We provided electronic copies of input and output modeling files to the MOE technical staff (odour), as requested, but these electronic files were not posted on the project website.	None	Not Accepted. Not addressed in EPA support documentation.	The modelling files were provided to the MOE during the EA approval and will also be provided to the MOE as part of the EPA submission. This is a requirement of the ESDM Report.
 Detailed Impact Assessment Reports – Landfill Gas 1.7.2 – For the intermediate operation scenario (year 2018) landfill gas (LFG) collection efficiency has been assumed to be 85% for Stages 1 through 7. LFG collection efficiencies of 85% are stated in various sections of the Baseline Conditions reports for the final cover over the existing waste mound utilizing a partial geomembrane, 600 mm of clay and 15 cm of top soil. Please describe the interim cover used over Stages 1-7 and how a collection efficiency of 85% was determined for this cover. 85% collection efficiency for landfill gas in landfill cells with interim cover and 50% collection efficiency for operating cells seems very optimistic. The EA does not provide sufficient justification for use of optimistic collection efficiencies. 	We assumed the LFG collection efficiency to be 85% based upon our experience at the Carp Road landfill between the years 2004 and 2010 when overall LFG collection efficiency increased from 23% to 85% as a result of the progressive increase in the portion of the existing landfill with final cover in place and increase in the total number of LFG extraction wells installed in the landfill mound. We assumed 85% collection efficiency for Stages 1-7 based on the presence of an in-place LFG collection system and an interim cover layer of 0.30 m of soil.	None	Not Accepted. Based on its operational experience, the City feels 85 % collection efficiency is overly optimistic. Typo – page 5-5 – should read 85% efficiency, not 8%	This data was provided to the MOE for approval of our evaluation within the Impact Assessment Report. The same data will be provided to the MOE for the EPA approval. RWDI has not changed the evaluation technique or the assumptions in the EPA approval stage from the approved evaluation completed during the EA.
Detailed Impact Assessment Reports – Landfill Gas Please explain how landfill gas generation estimates are affected by improved waste acceptance documentation as stated on page 20 Section 3.2.2 last paragraph.	We have assumed that enhanced knowledge of wastes being received at the new landfill will improve estimates of potential LFG generation.	None	Not Accepted. Waste Management Design and Operation report suggests the potential for automated scale house, where drivers of collection vehicles could scan a card reader to gain entry to the site. How will loads be verified as acceptable waste under this system?	Design and Operations report addresses acceptable and unacceptable waste types.

Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA
Waste Diversion The City supports waste diversion away from landfill. Significant improvements will need to be made to the ICI and C&D waste diversion rate to achieve the Province's goal of 60%. The City is requesting that the province set established waste diversion targets for ICI and C&D waste diversion for the service area of the landfill and that the total allowable annual tonnage accepted at the Carp Landfill, if approved, decrease at the same percentage rate from the first year annual tonnage of 400,000 tonnes. Contaminated soils that are landfilled must be counted towards the site's annual capacity, even if they are used as daily, interim or final cover.	We have proposed a new landfill footprint of 6.5 million cubic meters to provide residual waste disposal capacity needed after an assumed 2% average annual increase of the diversion rate in the IC&I sector over the projected life of the new landfill. The residual waste to be disposed of at the new landfill would be material remaining after the projected diversion within the IC&I sector. We have projected an approximate annual tonnage of 400,000 tonnes of solid waste to be disposed of at the new landfill. An additional 15% of daily and interim cover material will be required using the proposed ratio of 6:1 based on our operating experience. Therefore, the total volume of waste and daily and interim cover material for the new landfill will be approximately 6.5 million cubic metres. Additional airspace will be required for the final cover material used to close the new landfill. Further details on waste diversion and service area are provided in Chapter 3 of the Final EA Report. Further details on waste volume and cover material are provided in Chapter 6 of the Final EA Report.	None	Not Accepted – The Environmental Assessment approved a landfill expansion of 6,500,000 m ³ for waste and daily cover. Final cover is included in this volume. The site will receive up to 400,000 t/yr of solid non-hazardous waste including residential, institutional, commercial and industrial waste. Additional solid non- hazardous waste may be received at the site, v will be primarily used as cover material. Non-hazardous materials accepted for diversion will not be counted part of the licensed weight going into the site, including materials identified for potential use as Alternative Daily Cover (ADC) or landfi road building materials in WM's Design and Operations report (e.g. v chips, aggregate, crushed glass). All materials used for daily cover or road building within the landfill footprint should be counted as part of the licensed weight going into landfill.
Site Life The City requests that the overall approved capacity of the site should be reduced from the requested 6.5M m ³ to 5M m ³ to reflect WM's commitment to waste diversion.	We proposed a new landfill of 6.5 million m ³ based upon receipt of approximately 400,000 tonnes of solid waste per year, over a period of approximately 10 years. This volume includes solid waste and daily and interim cover material. We have proposed the WCEC as an integrated waste management facility that will provide diversion and disposal services. We have assumed an average annual increase in diversion within the IC&I sector of 2% in the projection of the need for capacity for the new landfill. Further details on the rationale for the undertaking are provided in Chapter 3 of the Final EA Report.	None	Not Accepted – The Environmental Assessment approved a landfill expansion of 6,500,000 m ³ for waste and daily cover. Final cover is a included in this volume. The site will receive up to 400,000 t/yr of solid non-hazardous waste including residential, institutional, commercial and industrial waste. Additional solid non- hazardous waste may be received at the site, w will be primarily used as cover material.
<i>Final Expansion</i> The City is requesting a guarantee from WM and the province that this be the last time that WM be allowed to request an expansion of the Carp Landfill Site.	We have proposed a new landfill footprint of 6.5 million cubic metres based upon historic operations and future business opportunities over a 10 year planning horizon given future uncertainty associated with the factors that may affect volume of disposal capacity required, but we did not exclude the future residual waste disposal needs for residential and IC&I sectors in the City of Ottawa and Good Neighbour Zone (GNZ). We have not precluded an ongoing need for disposal capacity for residual waste for the residential and IC&I sectors in the City of Ottawa and GNZ beyond a 10 year planning horizon. Further details on the rationale for the undertaking are provided in Chapter 3 of the Final EA Report.	None	Not Accepted. Not addressed in EPA support documentation.
Community Host Agreement	Finalize and implement a Community Host Agreement with the City of Ottawa.	None	Table 8-2 commitment to "finalize and implement a Community Host Agreement with the City of Ottawa" are not yet fulfilled.
Best Management Practices for Combustion By-Products	 Develop a Combustion Haul Route BMP Plan that may include the following mitigation measures: Minimize on-site idling of vehicles; Routinely monitor for waste vehicles arriving to the site in unfit or un-maintained condition; and Properly plan for waste vehicles staging and sequencing on the site. 	None	Best Management Practices (BMP) for Combustion By-Products doe provide sufficient detail to indicate how idling of vehicles will be minin or how vehicles will be staged and sequenced on-site to minimize id (Internal procedure to be developed.)

CA	WM Response to Comments on WCEC Draft ECA
ndfill er is not	The Environmental Assessment approved a landfill expansion of 6.5 million m^3 for solid non-hazardous waste and daily cover.
vaste, ste. ite, which	Additional solid non-hazardous materials may be received at the site that will primarily be used as potential Alternative Daily Cover (ADC) material or purposes stipulated in Design and Operations report (e.g., road building).
nted as ls andfill e.g. wood	
dfill into the	
ndfill er is not	The Environmental Assessment approved a landfill expansion of 6.5 million m ³ for solid non-hazardous waste and daily cover.
vaste, ste. ite, which	Additional solid non-hazardous materials may be received at the site that will primarily be used as potential Alternative Daily Cover (ADC) material or purposes stipulated in Design and Operations report (e.g., road building).
	This ECA application addresses the landfill expansion identified in the approved EA. A future landfill expansion would involve another EA and ECA process.
Host	We are in ongoing discussions with City of Ottawa regarding a Host Community Agreement.
s does not minimized ze idling.	Best Management Practices (BMP) for Combustion By-Products was revised to provide further detail regarding vehicle idling, staging and sequencing.

Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA
Integrated Gull Management Plan	 Finalize the Integrated Gull Management Plan outlined in the Detailed Impact Assessment stage. This Plan may include the following measures related to gull control: Design suggestions to minimize attractiveness of the site to gulls; Deterrent methods to minimize gull habituation (i.e., lethal enforcement); Contingency methods, if monitoring indicates these are necessary; and Staff training and communications (i.e., Tier 1 & Tier 2). Finalize the Integrated Gull Management Plan outlined in the Detailed Impact Assessment stage. This Plan may include the following measures related to the active tipping face: Minimization of tipping face area; Operation of only one tipping face at a time; Diligent application of daily cover to the active face; Minimization of waste protrusion through daily cover; and Monitoring of daily cover operations. 	None	 Comments on the BMP for Integrated Gull Management Plan as fo Document authored in 2006 and needs to be updated to reflec current conditions (e.g. TWF gull activity has changed as a res of gull management plan) Report makes several recommendations, but it is not clear if W intends to implement any or all of them Assumption about minimal to no putrescible waste is not valid. landfill may receive putrescible waste from a variety of sources. WM states no organic waste processing (food waste) at the sit leaf and yard only. This is inconsistent with the commitments made in the EA. No contingencies are provided in the event the actions taken d not reduce the gull presence to <200 / day. Preference is given to shooting gulls over the use of raptors. B bangers and gun shot blasts will have impacts on noise at the and is inconsistent with the BMP – Noise.
Design and Operations Report – Daily Cover	Develop a Design and Operations Report for the landfill expansion.	None	 The Design and Operations Report – Alternative Daily Cover sectio comment: Ash, Cement Kiln Dust, Bag House Fines should not be used a ADC, due to their fine grained nature. Waste management practices for this material should minimize the opportunity for erosion by wind or precipitation.
Environment Canada – Denise Fell and Mike Cadma	n		
Bank Swallow colony displacement	Develop a plan to address displacement of Bank Swallow colony, which may include relocation of colony to suitable sites within approximately 2 km of the WCEC and/or creation of a suitable site at the WCEC (i.e., exposed earthen cliff).	 EA Condition 9 requires that: 1. The proponent shall develop and implement a Bank Swallow Mitigation, Compensation and Monitoring Plan in consultation with Environment Canada and the Ontario Ministry of Natural Resources prior to the commencement of construction of the undertaking. 2. The Bank Swallow Mitigation, Compensation and Monitoring Plan shall include measures to mitigate impacts of the undertaking on the species, compensate for unavoidable adverse impacts and detail monitoring requirements. 	 Denise Fell "Just want to confirm with you that EC staff are fully engaged in bank sw consultation and I don't need to initiate a parallel review of the Design a Operations Report (D&O), Environmental Monitoring Plan (EMP), and E Management Practices (BMPs) with respect to Bank Swallows. That is, can I assume correctly that our consultations on Bank Swal are reflected in these documents and we do not need to review there ensure our recommendations/expectations are in there." Mike Cadman "This looks like a good plan. Maintaining the existing face/colony se like the best approach, and the 4 recommended steps seem approped few comments: If the nesting face has slumped to any great extent since last summer, it would be good to excavate those slumped areas to recreate vertical face suitable for nesting. This should be done the same time as the area at the base of the colony is excavate prior to early May. And it would be important to minimize the amount of material removed in creating the new vertical face, thelp ensure that the face is not moved back more than necess so that the site remains viable for as long as possible. It would be worthwhile keeping the excavated material nearby that it could possibly be used in future years to rebuild the face it erodes back towards the road above the colony. As long as the area around the colony is well cordoned off to minimize disturbance in the immediate vicinity of the colony, the birds should be able to nest successfully. This should include t entire area between the colony and the storm water retention pond, and as far as possible to each side and above the colony with a minimum of 10 m in those 3 directions.

A	WM Response to Comments on WCEC Draft ECA
follows: ect esult	Integrated Gull Management Plan (IGMP) was revised to provide further details regarding contingencies in the event actions taken do not reduce gull presence to <200 / day and to address noise levels at the site consistent with BMP Noise.
WM	
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site – s	
n do	
Bird e site	
ion	Additional solid non-hazardous materials may be received at the site
d as	that will primarily be used as potential Alternative Daily Cover (ADC) material or purposes stipulated in Design and Operations report (e.g., road building).
r	
swallow a and d Best vallow aem to	The Biology BMP includes mitigation, compensation and monitoring measures to mitigate impacts of the undertaking on the species, compensate for unavoidable adverse impacts and detail monitoring requirements. Environment Canada was consulted in the development of the Biology BMP as it pertained to measures in regards to the Bank Swallow colony.
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Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA	WM Response to Comments on WCEC Draft ECA
Ministry of Natural Resources – Shawn Thompson				
Bank Swallow colony displacement	Develop a plan to address displacement of Bank Swallow colony, which may include relocation of colony to suitable sites within approximately 2 km of the WCEC and/or creation of a suitable site at the WCEC (i.e., exposed earthen cliff).	Bank Swallow Mitigation, Compensation and Monitoring Plan in consultation with	Shawn Thompson "I'll pass this along to one of our current SAR BIOs. I did have a read of it. Is it possible to get a map to relate to some of features and details outlined in proposal? Nothing fancy. Looks pretty good in my opinion and I'll discuss with the SAR BIO at this end as well."	The Biology BMP includes mitigation, compensation and monitoring measures to mitigate impacts of the undertaking on the species, compensate for unavoidable adverse impacts and detail monitoring requirements. MNR was consulted in the development of the Biolog BMP as it pertained to measures in regards to the Bank Swallow colony.
Ministry of Natural Resources – Shawn Thompson		1		
Species-At-Risk (SAR) assessment	Contact OMNR should species at risk (e.g., Eastern Meadowlark and Barn Swallow) be encountered on-site and adhere to applicable permits, acts, and guidelines in detailed design and construction.	 The proponent shall conduct on-site surveys to determine the presence of Barn Swallow habitat on-site in consultation with the Ontario Ministry of Natural Resources. Should Barn Swallow habitat be present, the proponent shall comply with the requirements of the Endangered Species Act, 2007. The proponent shall conduct on-site surveys to determine the presence of Flooded Jellyskin habitat on-site in consultation with 	Shawn Thompson "Our planner sent a response to MOE about a month ago indicating we were satisfied with the efforts and findings of your surveys. I notice she did not copy AECOM on it. The email went to Charlene Cressman at MOE, but Laura (our planner) mentioned that Charlene was not on this file anymore but that it would be forwarded within MOE to correct staff. Since MOE is the lead agency on this file I would suggest if you haven't heard anything try contacting them. As for the Bank swallow you can start with me as a contact locally until our staffing efforts are complete. I could give you another name, but that might change in a month or two. I'll be here so can provide some consistency until things settle. I'm no expert but can tap into that knowledge or steer you to others as need be."	No further comment.
Don't Let Ottawa Go To Waste Coalition				
Consultation with Stakeholders	Consult with stakeholders regarding ECAs, EMP(s) and BMPs, Contingency Plans, and End-Use/Closure Plan for the undertaking and other WCEC facilities prior to submission of the formal applications to the MOE. Consultation will include opportunities to review ECAs, EMP(s) and BMPs, Contingency Plans, and End- Use/Closure Plan for the undertaking and other WCEC facilities. Give notice of availability of draft documents on the project website for review for a 30-day period (e.g., local newspapers, project website, stakeholder email). Conduct consultation events on draft documents, if needed (e.g., Open Houses). Post final documents submitted to the MOE on the project website, including the results of the consultation process. Stakeholders will include the Carp Landfill Community Liaison Committee (CLCLC), the City of Ottawa, government agencies, and the public.	proponent's website for the undertaking for a period of thirty days for review and public comment. The proponent shall take any comments received into consideration prior to finalizing the plan.	 short ECA review and comment period, at the same time the public were engaged in an extensive review of Waste Management's (WM) zoning amendment application for the site. As well, the announcement was made just before the May long weekend when many people in the area are focused on family and outside events. Because of the above mentioned constraints to providing comment within the defined comment period (May 15 to June 16), we had asked for a possible extension so that we would have adequate time to provide a full review of the lengthy ECA documentation. As no extension was given, we are not in a position to provide comprehensive comments at this time. That being said; there are a few observations we would like to bring forward. The Environmental Assessment (EA) presented a proposal for a West Carleton Environmental Centre (WCEC) that included a new landfill 	consultation with stakeholders on the draft ECA information. Our consultation also exceeded that required on ECA applications stemming from projects approved through an EA. We consulted with stakeholders regarding the ECA, EMP, BMPs and Contingency Plans for the undertaking and other facilities prior to submission of the final ECA applications to the MOE. We provided potice of the availability of the draft ECA documents on the WCEC.

Summary of Comments on WCEC EA	WM Response to Comments on WCEC EA	MOE EA Approval Condition	Summary of Comments on WCEC Draft ECA	WM Response to Comments on WCEC Draft ECA
			 and was approved with conditions based on that assessment. Details presented in the ECA documents include numerous changes to the design and mitigation originally evaluated in the EA without any evaluation of how the changes will affect the overall environmental and social impacts. Without such an environmental evaluation of proposed changes, it is not possible to determine if conclusions made in the EA still apply. 2. On the first page of the approved EA, WM proposed several waste diversion facilities along with the new landfill that would be part of the WCEC; - "In addition to the new landfill footprint, WM also proposes to include at the WCEC the following diversion facilities: Material Recycling Facility; Construction and Demolition Material Facility; Residential Diversion Facility; Organics Processing 	management plans, traffic routing and safety on-site, and road alignment and safety of the site exit. The WCEC is an integrated waste management facility that includes disposal and diversion facilities. The current site ECA includes approval of waste transfer and processing. We have retained this in the WCEC ECA applications. This fulfills our TOR and EA commitments that waste diversion facilities - directed to the general commercial recyclables and construction and demolition materials - will be built at the same time as the other WCEC project components, and these facilities will be able to process more than 75,000 tonnes of material annually, with the actual throughput depending upon market conditions.
			Facility; and Electronic Waste Handling Facility". On page five of the EA, the vision of the WCEC as a facility with a focus on diversion was laid out; - "WM developed the WCEC vision. This proposed facility would have a focus on waste diversion and would represent an entirely new approach to managing waste in Ottawa. The new facility would be focused on dividing materials into distinct streams that would allow WM to maximize re-use, recovery, and recycling opportunities. This new vision would represent a significant step forward in how WM and the community could reduce dependence on disposal and help make the site a leader in Ontario in responsible waste management". Contrary to the WCEC vision and commitment presented in the EA that was approved by the Minister of the Environment, the ECA documentation present little information on the diversion facilities that are to be the focus of the undertaking. The ECA's exclusive focus on the landfill indicates that the WCEC will be a disposal facility like every other disposal facility in the Ottawa region and the rest of Ontario. Thus the ECA documentation does not reflect the WCEC undertaking as presented in the approved EA.	
			As we are still conducting a technical review of the ECA documents, we will not be able to provide comments by the end of the defined comment period. Therefore, when we have completed the review and our technical comments are prepared, we will submit them directly to the Ontario Ministry of the Environment for their consideration in their evaluation of the details within the ECA documentation.	



Appendix A

Stakeholder List – Government Review Team and First Nations and Metis Organizations

Salutation	First Name	Last Name	Title	Department	Agency	Address 1	Address 2	City	Prov.	Postal	Email Address	Phone	Notes
				- cpartment						. 55(4)			Steve Hounsell has retired. Send information
			Assistant Environmental										to Lindsay Parks and she will determine who the
Ms.	Lindsay	Parks	Advisor Transmission Lines	Sustainable Development Lines Information Systems	Ontario Power Generation	700 University Ave.		Toronto	ON	M5G 1X6	lindsay.parks@opg.com	416-592-4173	project should go to
Mr.	Leslie	Koch	Sustainment Manager	and Programs	Hydro One Networks Inc.	483 Bay Street,	TCT15-A11, North Tower	Toronto	ON	M5G 2P5	Leslie.koch@hydroOne.com	416-345-5742	
				Food Safety and Environmental Policy	Ministry of Agriculture Food and Rural								
Mr.	John	O'Neill	Rural Planner	Branch	Affairs	Box 2004	59 Ministry Rd	Kemptville	ON	K0G 1J0	John.O'Neill@ontario.ca	613-258-8341	
				Programs and Services Branch									
Ms.	Rosi	Zirger	Heritage Planner	Culture Services Unit	Ministry of Tourism and Culture	401 Bay Street	Suite 1700	Toronto	ON	M7A 0A7	rosi.zirger@ontario.ca	416-314-7159	
				OPP Facilities Section, Accommodation Services									
Ms.	Sheryl	Bennett	Manager	Section Renewable and Clean	Ontario Provincial Police	777 Memorial Avenue	2nd Floor	Orillia	ON	L3V 7V3	<u>sheryl.maukonen@ontario.ca</u>	705-329-6853	Changed last name
				Energy, Energy Supply and									
Mr.	Allan	Jenkins	Sr. Policy Specialist	Competition Branch Growth Policy, Ontario	Ministry of Energy and Infrastructure	880 Bay Street	3rd Floor	Toronto	ON	M7A 2C1	allan.jenkins@ontario.ca	416-325-6926	
Mr.	Jamie	Austin	Manager	Growth Secretariat	Ministry of Energy and Infrastructure	777 Bay Street	4 th Floor, Suite 425	Toronto	ON	M5G 2E5	Jamie.austin@ontario.ca	416-325-5794	
Ms.	Syliva	Shedden	Director, Environmental Health Branch	Public Health Division	Ministry of Health and Long-Term Care	5700 Vonge St	2nd Floor	Toronto	ON	NAJNA AK5	Sylvia.shedden@ontario.ca	416-327-7423	
1013.			Manager, Community	Eastern Municipal Services									
Mr.	Michael	Elms	Planning and Development		Ministry of Municipal Affairs & Housing		Rockwood House	Kingston		K7M 9A8	Michael.elms@ontario.ca	613-545-2132	
Ms. Mr.	Laura Mike	Melvin Gibbs	Acting District Manager Planner	Kemptville District	Ministry of Natural Resources Ministry of Transportation	Box 2002 1355 John Counter Boulevard	Concession Road Postal Bag 4000	Kemptville Kingston		K0G 1J0 K7L 5A3	Laura.Melvin@ontario.ca Mike.E.Gibbs@ontario.ca	613-258-8470 613-545-4834	
Mr.		Тау	Head of Corridor		Ministry of Transportation	347Preston Street	4th Floor	Ottawa		K1S 3J4	louis.tay@ontario.ca	613-748-5280	
			Manager, Environmental	Environmental Protection Operations Division -									
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Ms.	Denise	Fell	Environmental Assessment Officer		Environment Canada						denise.fell@ec.gc.ca		
			Regional Environmental				, th						
Ms.	Melanie	Lalani	Assessment Coordinator Regional Environmental	Safe Environments Program	Ontario Region – Health Canada	180 Queen Street West	10 th Floor	Toronto	ON	M5V 3L7	Melanie_lalani@hc-sc.gc.ca	416-954-2206	
Ms.	Kitty	Ma	Assessment Coordinator	Safe Environments Program	Ontario Region – Health Canada	180 Queen Street West	10 th Floor	Toronto	ON	M5V 3L7	kitty.ma@hc-sc.gc.ca	416-954-2206	
			Environmental Assessment Coordinator	Programs Branch	Transport Canada - Ontario Region	4900 Yonge Street	Suite 300	Toronto	ON	M2N 6A5	EnviroOnt@tc.gc.ca		
			Director of Environmental										
Mr.	Yvon	Larochelle	Services		Transport Canada	Ottawa International Airport	Suite 3110, 50 Airport Road	Gloucester	ON	K1V 9B4	<u>yvon.larochelle@ottawa-airport.ca</u>	613-248-2000 ext.1157	
	Data	l a shi ku a sha	Manager, Environmental	Environmental Assessment		2 Ct. Clair Average Mart	14 th Floor	Tananta				446 244 7242	
Mr.	Ross	Lashbrooke	Assessment Section General Manager,	and Approvals Branch Environmental Services	Ministry of Environment	2 St. Clair Avenue West	14 Floor	Toronto	ON	M4V 1L5	ross.lashbrook@ontario.ca	416-314-7213	
Mr.	Dixon	Weir	Environmental Services	Department	City of Ottawa	110 Laurier Ave. West		Ottawa	ON	K1P 1J1	dixon.weir@ottawa.ca	613-580-2424 ext.22002	
Mr.	Paul	Lehman	General Manager		Mississippi Valley Conservation Authority	Box 268		Lanark	ON	K0G 1K0	plehman@mvc.on.ca	613-259-2421 ext.223	
			Manager of Planning and		Mississippi Valley Conservation								
Mr.	Matt	Craig	Regulatory Services		Authority						mcraig@mvc.on.ca info@mvc.on.ca	613-259-2421 613-580-2424	
													David Miller no longer
Ms.	Anne	Robinson		Waste Processing and	City of Ottawa	110 Laurier Ave. West		Ottawa	ON	K1P 1J1	anne.robinson@ottawa.ca	613-580-2424 ext.12059	with the City of Ottawa
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l	Fel	Petti	Manager	Surface Water Management	City of Ottawa	657 Sheppards Road	Techincal Service Building	Ottawa	ON	K1J 1A6	Felice.Petti@ottawa.ca	613-580-2424 ext.22226	
Mr.		Bashir	Manager	Economic Development	City of Ottawa	110 Laurier Ave. West		Ottawa		K19 1/10 K1P 1J1	Saad.Bashir@ottawa.ca	613-580-2424 ext.22339	
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												612 500 2424 245	Took over for Hana Nader-
Mr.	Martin	Dolan	Legal Counsel Manager Development	City Clerk & Solicitor Dept. Planning & Growth Mgmt	City of Ottawa			Ottawa			martin.dolan@ottawa.ca	613-580-2424 ext.21547	Mehri
Mr.	Derrick	Moodie	Review (Rural)	Department	City of Ottawa			Ottawa			Derrick.Moodie@ottawa.ca	613-580-2424 ext.15134	
Mr.	John	Moser	General Manager	Planning and Growth	City of Ottawa	110 Laurier Ave. West		Ottawa	ON	K1P 1J1	john.moser@ottawa.ca	613-580-2424 ext.28869	
		Prince	Compliance Officer	Sewer Use Program	City of Ottawa						Matthew.Prince@ottawa.ca	613-580-2424 ext.22847	
Mr.				Jewei Use riugidili							matthew.Finite@OttaWd.td	013-300-2424 EXI.2284/	
Ms.	Meagan	Wheeler Cuddihy	Program Engineer Solid Waste	Solid Waste Services	City of Ottawa	110 Laurier Ave. West		Ottawa	ON	K1P 1J1	meagan.wheelercuddihy@ottawa.ca	613-580-2424	
										, _, _	<u></u>		
1413.		lournoouv	Manager	Solid Waste Services	City of Ottawa Canadian Environmental Assessment	110 Laurier Ave. West		Ottawa	ON	K1P 1J1	Marilyn.Journeaux@ottawa.ca	613-580-2424 ext.21528	
Ms.	Marilyn	Journeaux						Toronto		N 4 4 T 4 N 4 2			
		Johansson		Ontario Region		55 St. Clair Avenue East	9th Floor	10101100	ON	M4T 1M2	marc.leger@ceaa-acee.gc.ca	416-952-1574	
Ms. Mr.	Carl	Johansson		Algonquins of Ontario	Agency								
Ms.	Carl		Executive Director	<u> </u>		55 St. Clair Avenue East 31 Riverside Drive	Suite 101	Pembroke		K8A 8R6	marc.leger@ceaa-acee.gc.ca algonquins@nrtco.net	416-952-1574 613-735-3759	
Ms. Mr.	Carl	Johansson	Executive Director	Algonquins of Ontario	Agency								Took over from Melanie Paradis
Ms. Mr.	Carl	Johansson		Algonquins of Ontario	Agency								Paradis. Prefers project info to be
Ms. Mr.	Carl Janet	Johansson	Executive Director Director of Lands, Resources and Consultation	Algonquins of Ontario	Agency				ON				Paradis.



Appendix B

Open House #1 Summary Report



Waste Management of Canada Corporation

West Carleton Environmental Centre -Environmental Compliance Approval – Summary of Open House #1

AECOM		
105 Commerce Valley Drive West, Floor 7	905 886 7022	tel
Markham, ON, Canada L3T 7W3	905 886 9494	fax
www.aecom.com		

Project Number: 60289364

Prepared by:

Date: June 2014



Statement of Qualifications and Limitations

The attached Report (the "Report") has been prepared by AECOM Canada Ltd. ("Consultant") for the benefit of the client ("Client") in accordance with the agreement between Consultant and Client, including the scope of work detailed therein (the "Agreement").

The information, data, recommendations and conclusions contained in the Report (collectively, the "Information"):

- is subject to the scope, schedule, and other constraints and limitations in the Agreement and the qualifications contained in the Report (the "Limitations");
- represents Consultant's professional judgement in light of the Limitations and industry standards for the preparation
 of similar reports;
- may be based on information provided to Consultant which has not been independently verified;
- has not been updated since the date of issuance of the Report and its accuracy is limited to the time period and circumstances in which it was collected, processed, made or issued;
- must be read as a whole and sections thereof should not be read out of such context;
- was prepared for the specific purposes described in the Report and the Agreement; and
- in the case of subsurface, environmental or geotechnical conditions, may be based on limited testing and on the assumption that such conditions are uniform and not variable either geographically or over time.

Consultant shall be entitled to rely upon the accuracy and completeness of information that was provided to it and has no obligation to update such information. Consultant accepts no responsibility for any events or circumstances that may have occurred since the date on which the Report was prepared and, in the case of subsurface, environmental or geotechnical conditions, is not responsible for any variability in such conditions, geographically or over time.

Consultant agrees that the Report represents its professional judgement as described above and that the Information has been prepared for the specific purpose and use described in the Report and the Agreement, but Consultant makes no other representations, or any guarantees or warranties whatsoever, whether express or implied, with respect to the Report, the Information or any part thereof.

Without in any way limiting the generality of the foregoing, any estimates or opinions regarding probable construction costs or construction schedule provided by Consultant represent Consultant's professional judgement in light of its experience and the knowledge and information available to it at the time of preparation. Since Consultant has no control over market or economic conditions, prices for construction labour, equipment or materials or bidding procedures, Consultant, its directors, officers and employees are not able to, nor do they, make any representations, warranties or guarantees whatsoever, whether express or implied, with respect to such estimates or opinions, or their variance from actual construction costs or schedules, and accept no responsibility for any loss or damage arising therefrom or in any way related thereto. Persons relying on such estimates or opinions do so at their own risk.

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This Statement of Qualifications and Limitations is attached to and forms part of the Report and any use of the Report is subject to the terms hereof.



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Appendices

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1. Introduction

Waste Management of Canada Corporation (WM) committed in the approved Environmental Assessment (EA) for the West Carleton Environmental Centre (WCEC) to consult with stakeholders, government agencies, and First Nations and Aboriginal communities regarding Environmental Compliance Approvals (ECA), Environmental Monitoring Plans (EMP), and Best Management Practices (BMP) prior to the submission of a formal application to the Ministry of the Environment (MOE).

The consultation commitment included advertisement and notification of availability of draft material on the project website for a 30-day review period (e.g., local weekly newspapers, project website, stakeholder email, neighbours letter), conduct of consultation events on draft material, if needed, (e.g., Open Houses), and posting on the project website the final material submitted to the MOE, including a summary of the stakeholder consultation process.

WM posted the draft material on the project website for a 30-day public review period from Thursday, May 15th to Monday, June 16th. WM also provided hard copies of the draft material for public review at their offices located at 254 Westbrook Road and 2301 Carp Road in Ottawa. WM issued notices of the posting in three local weekly newspapers in Ottawa (i.e., Stittsville, Kanata, and Carp) on Thursday, May 15th and Thursday, May 22nd. WM also committed to conduct two open houses on June 4th and June 26th to review the draft material and stakeholder comments.

This Report summarizes the activities from Open House #1 held on June 4th, including display boards and stakeholder comments.

2. Overview

The intent of Open House #1 was to provide stakeholders with an opportunity to review draft material related to the WCEC ECA, including the Design and Operations Report (D&O), Environmental Monitoring Plan (EMP), and Best Management Plans (BMP). The Open House displayed a series of display boards (Appendix A) that provided an overview of the draft material related to the WCEC ECA. WM staff and consultants were available to discuss the draft material with stakeholders, receive their comments, and answer their questions. As stakeholders arrived, WM staff asked them to sign-in and provided them with a comment sheet (Appendix B) that included questions regarding the draft information presented. They had the option of filling out the comment sheet on-site or providing comments via mail, email, or fax to WM.

3. Notification

WM placed advertisements for Open House #1 and Open House #2 in three (3) local weekly newspapers in Ottawa (i.e., Stittsville, Kanata, and Carp) on Thursday, May 15 and Thursday, May 22. The initial advertisement showed the Open House for Thursday, June 5. The second advertisement showed the revised date of Wednesday, June 4.

WM also provided notification via email to persons listed on WM's stakeholder distribution list, posting on the project website at http://wcec.wm.com, and drop-off to neighbours.

WM also provided notification via email to First Nation and Aboriginal communities, and the Government Review Team (GRT).

Copies of the advertisement and notifications are included in Appendix C.



4. Attendance

Nineteen (19) individuals registered at Open House #1. The following WM staff and consultants attended the Open House to engage stakeholders:

WM	Consulting Team
 Tim Murphy Ross Wallace Wayne French Bill McDonough Wayne Jenken Cindy Durepos 	AECOM 7. Larry Fedec 8. Valerie McGirr WESA 9. Dave Harding RWDI 10. John DeYoe FoTenn 11. Andrew Sacret WSP 12. Peter Brodzikowski

June 4, 2014 - NeXT Restaurant, 6400 Hazeldean Road, Stittsville

5. Comments Received

WM staff and consultants received comments and questions from stakeholders at the Open House. WM received one (1) comment sheet at the Open House, and three (3) comment sheets and nine (9) emails, from stakeholders following the Open House.

Following the Open House, WM sent an email to the stakeholders on the project contact list that included copies of the display boards and comment sheet. Subsequently, a number of stakeholders asked for their names to be removed from the project contact list.

The key issues raised by stakeholders at Open House #1, and through correspondence afterwards, were as follows:

- Odours from waste and gas
- Groundwater contamination
- Monitoring of future impacts
- Further contamination of site
- Increased noise from traffic
- Removal of mature trees

- Property value impacts
- Economic growth impacts
- Entrances along Carp Road
- Inconsistencies in mapping
- Formation of WCEC PLC
- Traffic flow patterns on-site

WM staff and consultants plan to review the issues and concerns raised and address them as appropriate as the project proceeds.



Appendix A

Display Boards



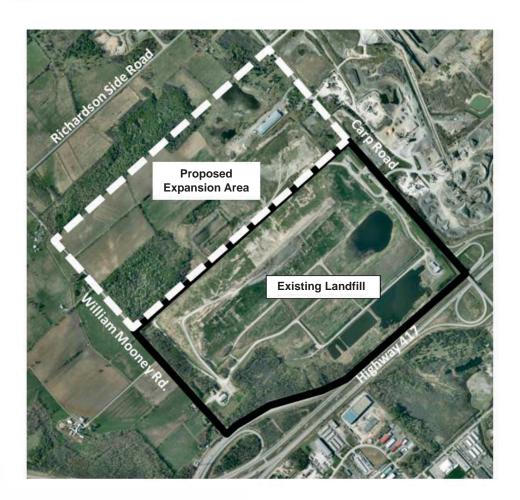
Welcome

Open House # 1

West Carleton Environmental Centre Environmental Compliance Approval

Wednesday, June 4, 2014 6:00 p.m. to 9:00 p.m.

6400 Hazeldean Road, Stittsville





Proposed West Carleton Environmental Centre



General

Service Area:

➢ Ontario-wide

Waste Types

Solid non-hazardous waste

Annual Tonnage:

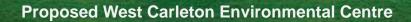
Up to 400,000 MT, plus material for daily cover

Total Volume:

➢ 6.5M cubic meter capacity

Hours of Operation:

- Friday To The Total Action Friday
- 7am to 6pm Saturday





Traffic Impact Assessment

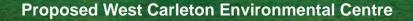
> Traffic Data and Analysis:

- Existing traffic determined using counts from the City and Province, supplemented by new traffic counts.
- Site traffic then forecasted for new landfill and diversion facilities.
- Site traffic added to traffic forecasts for 2031 from City model for roads.
- Result:
 - Left turn lane warranted into WCEC, to be designed for trucks.
 - Good level of service at signals. Delays expected during PM peak for vehicles exiting WCEC and east side driveway (unsignalized), especially those wanting to make a left turn onto Carp Road.

New access to Carp Road in the vicinity of existing Laurysen Building

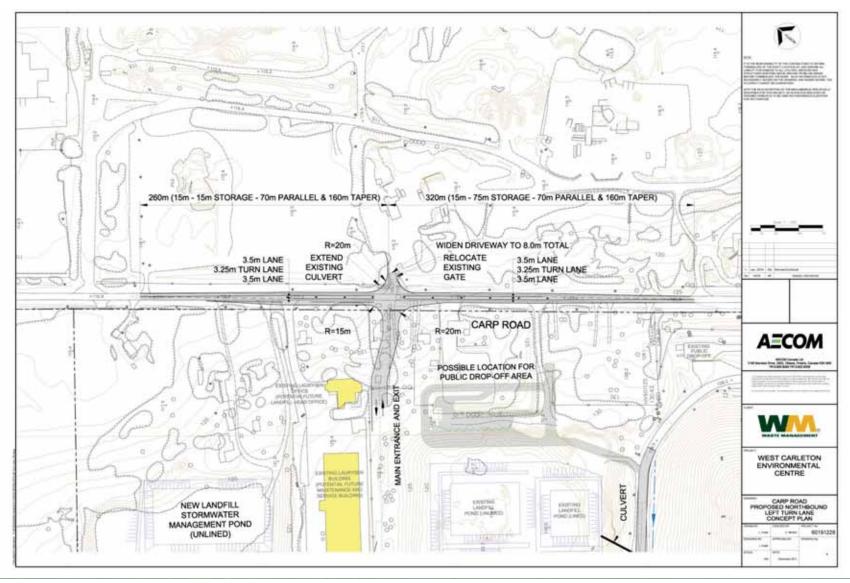
> Net Transportation Effects:

- Improved safety when compared with existing conditions (northbound through and left turning traffic separated; entrance relocated to location with improved sight distances).
- Improved operations for northbound through traffic (no waiting behind left turning vehicles at the site access).
- Minor temporary effects remain during left turn lane construction.
- Minimal net transportation effects.





Proposed Northbound Left Turn Lane





WCEC Design - EA 2013





WCEC Design - EPA 2014



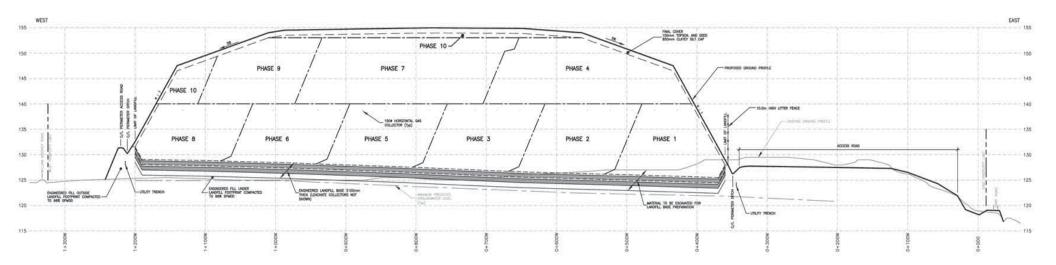


WCEC Design Changes

AMENDMENT NAME SIGNIFICANCE OF AMENDMENT NO. AMENDMENT DESCRIPTION AND RATIONALE The access road alignment at landfill entrance from Carp Road has been revised and widened to improve There have been no changes to the design basis for WCEC. The traffic flow, turning and road safety and increase queuing capacity. Also the on-site road network has number of trips to and from the landfill have not changed and Entrance and on-site been revised and the paved and gravel roads between the landfills have been combined to a single road the amendments proposed are to improve the landfill function. with paved and gravel sections to simplify drainage and improve traffic flow along the road corridor The amendments presented here are not significant. road modifications between two landfill mounds following elimination of the lined stormwater pond servicing the access road. The area and depth of the infiltration basins and stormwater ponds have been revised and one lined There have been no changes to the design basis for WCEC. The stormwater pond has been incorporated within a larger pond. These design amendments were design proposed for a two pond system including lined stormwater ponds and unlined infiltration basins has not implemented after constant infiltration rates for the infiltration basins were determined based on Infiltration basin and geotechnical results, after pond volumes required were determined from retention times needed based changed. The amendments proposed are in accordance with 2 stormwater pond on 1:100 year storm volumes and following revision to the landfill cap design to reduce leachate geotechnical results and to improve the landfill function. The modifications generation and gas emissions, while meeting the minimum required infiltration rate. The lined pond amendments presented here are not significant. servicing the access road was incorporated into a larger lined pond after it was determined that there was no need to separate runoff from the landfill access road and after it was incorporated into a single road. The footprint of the proposed landfill expansion has been revised and the footprint has been shifted 30m There have been no changes to the design basis for WCEC. The west. The shift of the footprint will better accommodate the enlarged infiltration basins and stormwater volume and area of the proposed landfill have not changed. The Landfill footprint ponds required as a result of Item 2 above. amendments proposed are to design modifications resulting 3 modifications from geotechnical results and required buffers remain. The amendments presented here are not significant. The landfill base has been revised and the base corrugations have been removed and the landfill phasing There have been no changes to the design basis for WCEC. The plan has been revised. The design amendments were implemented after leachate collection system minimum base slope and leachate collection system density are Landfill base and landfill design development. The leachate collection system proposed in the Facility Characteristics Report did in compliance with landfill standards and the landfill base Δ not comply with landfill design standards and the corrugations would have limited possible phasing remains above the maximum predicted groundwater elevation. phasing modifications alternatives due to leachate flow direction. The landfill base corrugations have been removed resulting in The amendments presented here are not significant. uniform base slopes with a single direction to a common low point / pump station. The landfill screening has been revised. The design amendments were implemented after detailed There have been no changes to the design basis for WCEC. Air assessments were completed for air quality impact, noise impact and visual impact. A combination of quality and noise compliance will be achieved and residential berm and vegetative treatments were proposed at strategic locations to minimize nuisance and visual properties located west or north will have their views obscured. Visual and nuisance impact. With the revised phasing plan and limitations implemented for equipment utilization screening The plantings will result in a natural visual barrier that will 5 screening modifications berms are not required to achieve air quality or noise compliance at the property boundary. Vegetative obscure the majority of views. The amendments presented screening is sufficient to minimize the visual impact of the landfill. here are not significant.



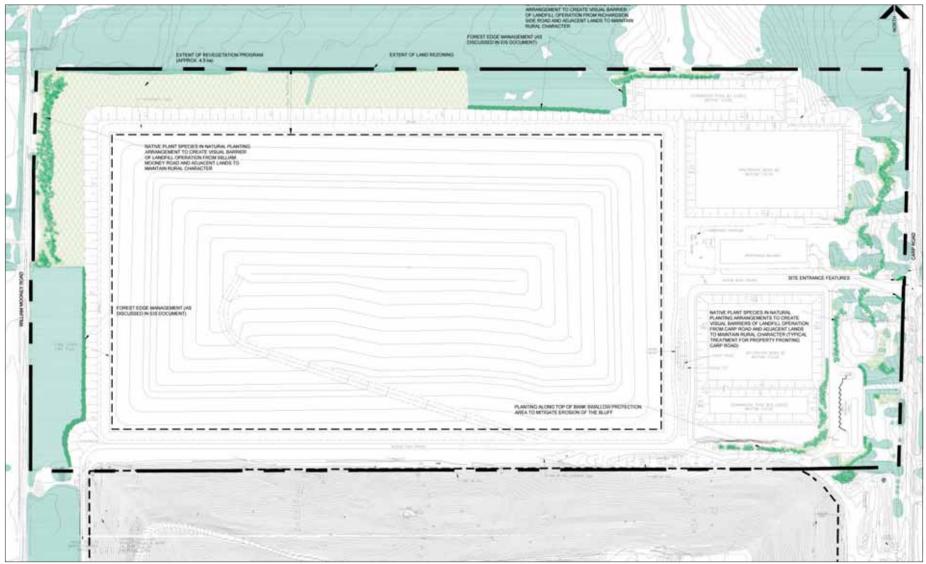
Site Development Phasing Drawing





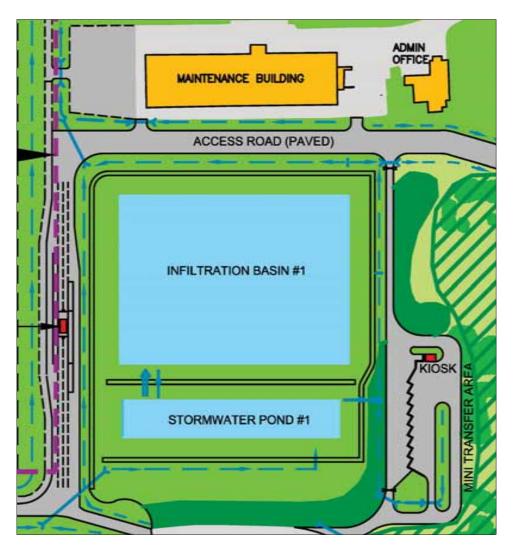


Landscape Development Plan





Mini Transfer and Scale





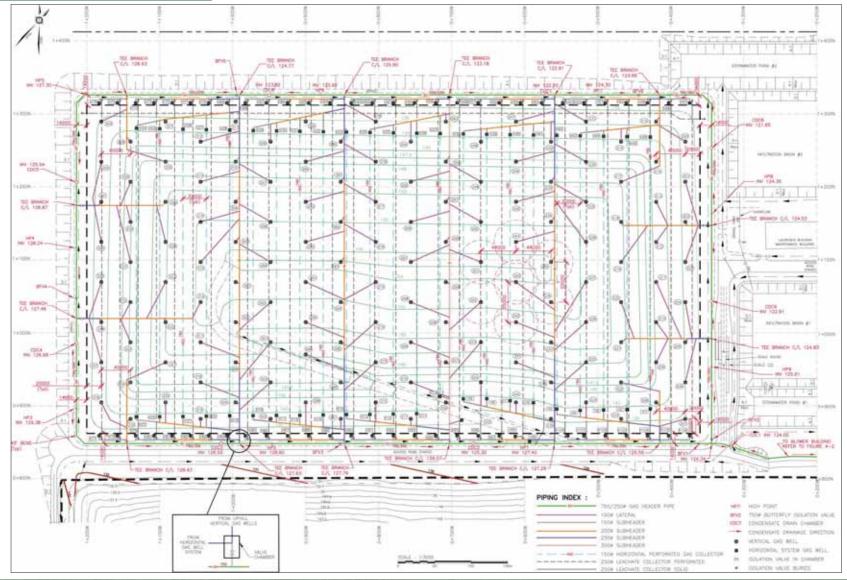
WM Twin Creeks Landfill - Completed scale house and inbound and outbound scales.



WM Twin Creeks Landfill - Mini transfer area including bins below drop off wall area.

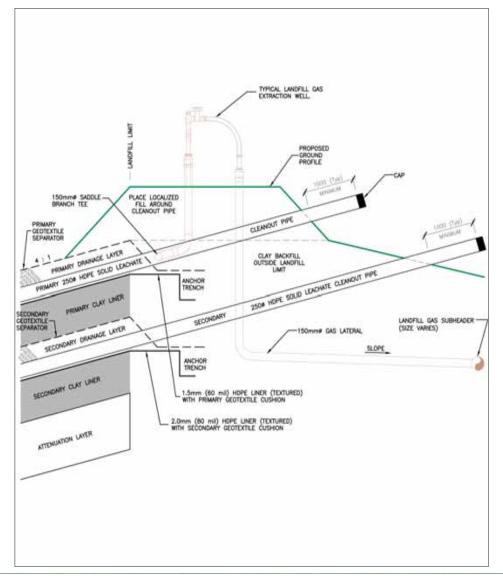


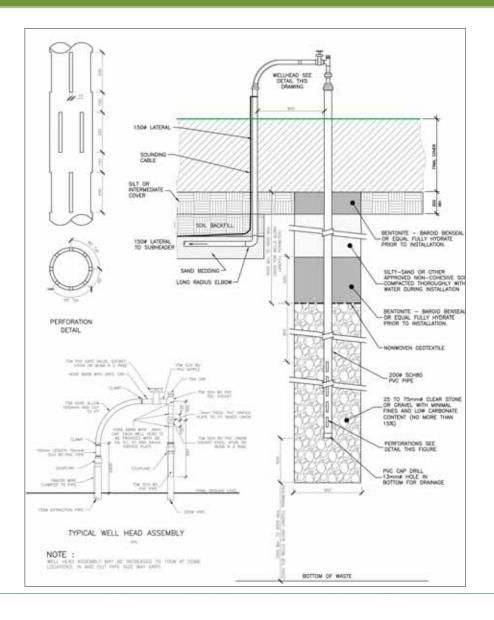
Landfill Gas - Collection System





Landfill Gas - Collection System





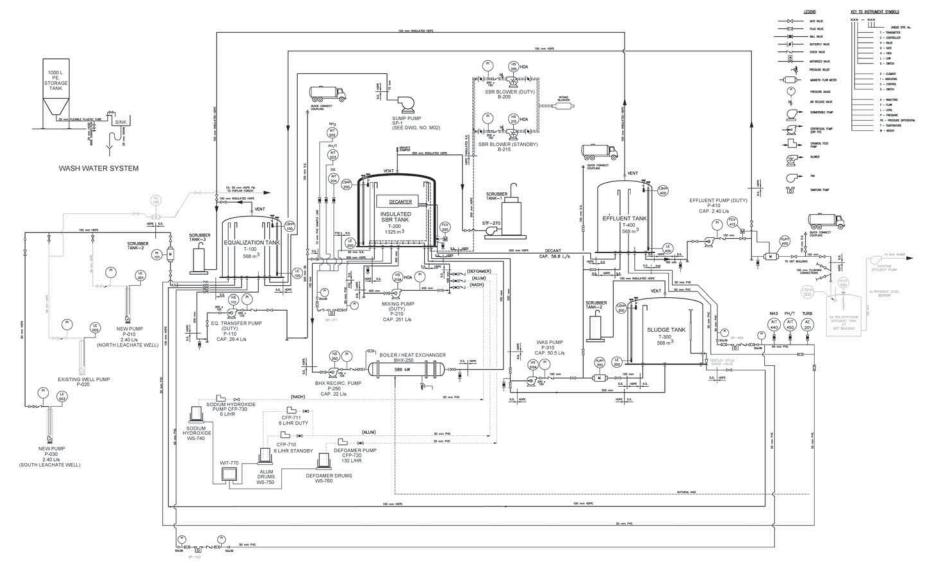


Existing & Contingency Poplar Plantation



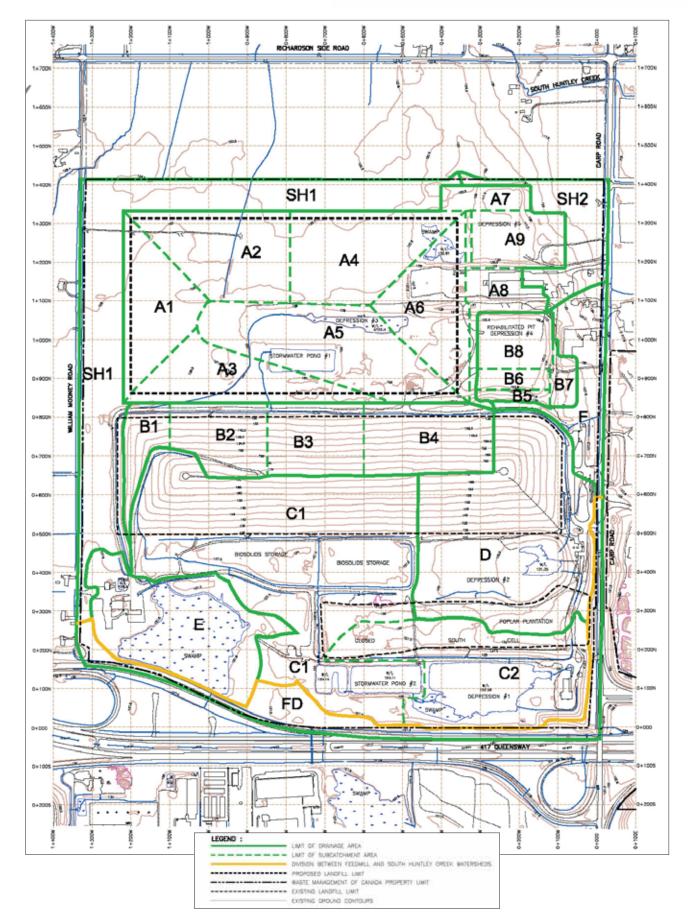


Sequencing Batch Reactor (SBR)



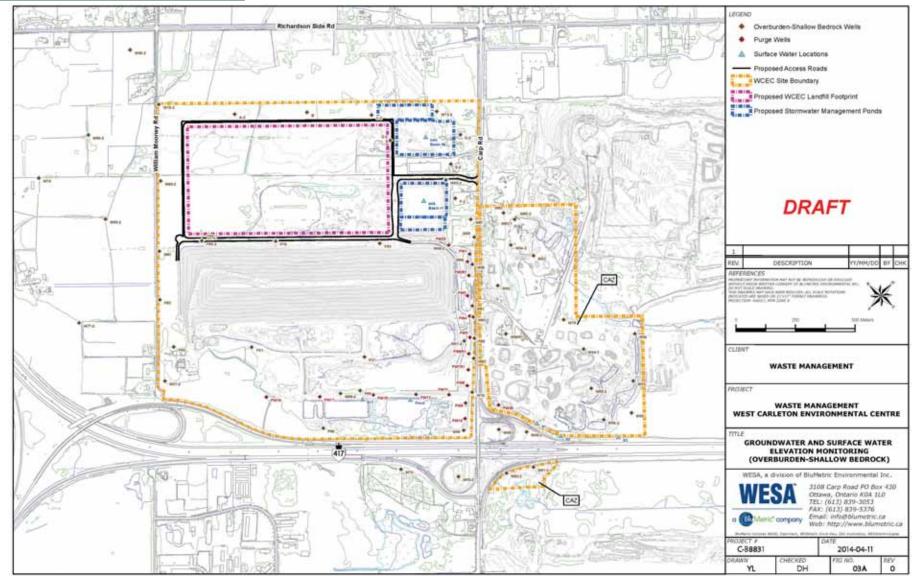


Surface Water – Post Development



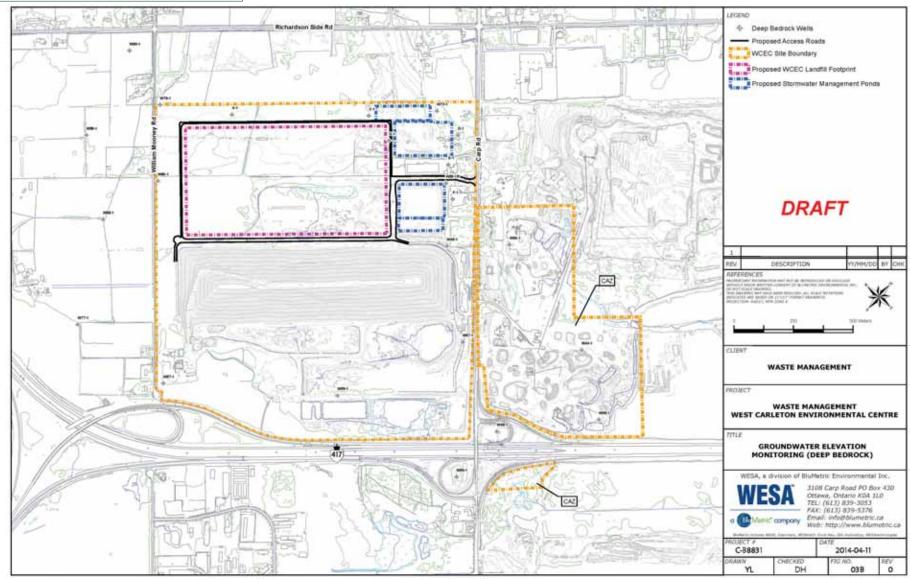


Elevation Monitoring



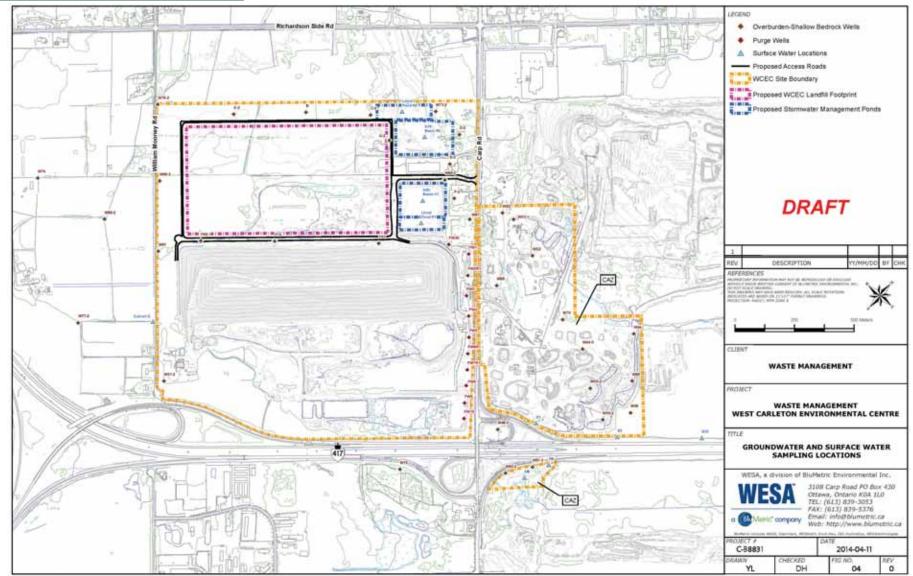


Deep Groundwater Monitoring



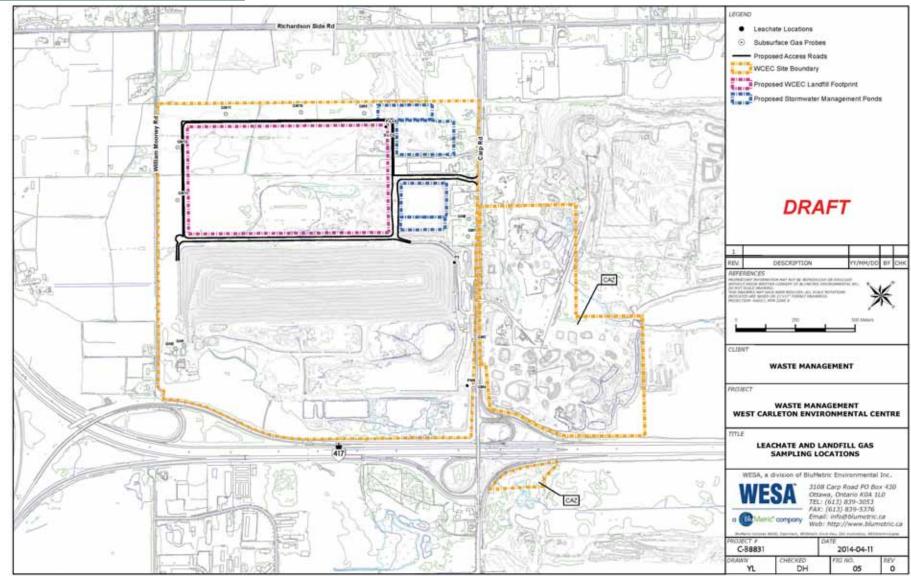


Sampling Locations





Sampling Locations





Environmental Monitoring Plan

- Annual monitoring reports will be submitted to the MOE Ottawa District Manager, the City of Ottawa, and the Public Liaison Committee (PLC), and will be posted on a publicly accessible website.
- The reports will be submitted within 90 days following the end of the calendar year period being reported on.
- The reports will present the data, results and interpretations derived from the monitoring conducted during the previous twelve-month period.





Air Quality Monitoring Plan

> Total Suspended Particulate (TSP)

- Monitor at three locations on an ongoing basis around landfill.
- Follow the U.S. EPA Method IO-2 and Ontario Ministry of Environment's (MOE's) Operations Manual for Air Quality Monitoring in Ontario, March 2008, PIBS 6687e.
- Present results in annual report.

> Volatile Organic Compounds (VOC)

- Monitor for target VOCs for five (5) samples between May and September.
- Follow the U.S. EPA TO14/15 methods, using Summa canisters and mass flow controllers.
- Follow MOE's Operations Manual for Ambient Air Quality Monitoring in Ontario, March 2008.
- VOC exceedences of O.Reg. 419/05 will be reported to MOE within 2 weeks of lab results.

> Total Reduced Sulfur (TRS)

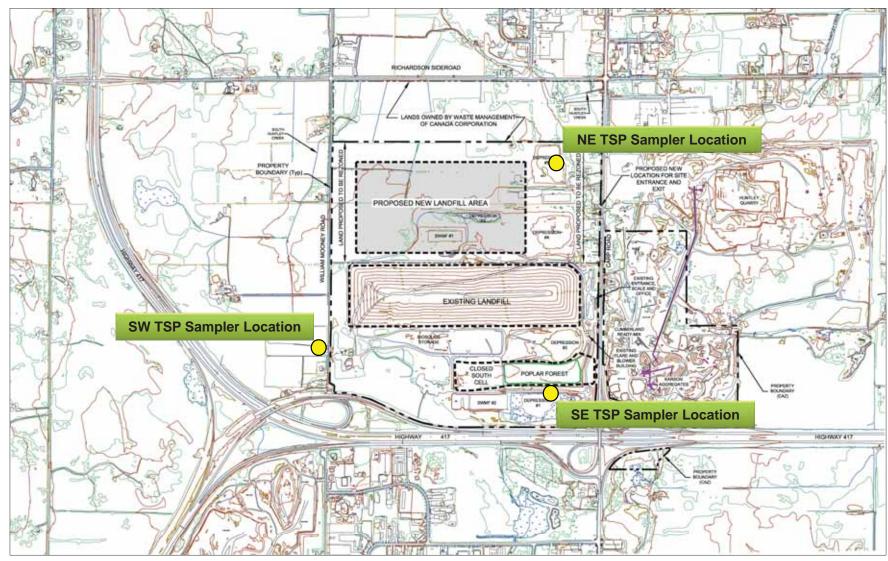
- TRS samples will be collected at the same locations as the VOC samples.
- TRS values will be expressed as Hydrogen Sulphide.
- TRS exceedences of O.Reg. 419/05 will be reported to MOE within 2 weeks of lab results.

> Total Hydrocarbon (THC)

- THC assessment will be conducted through a grid survey of the existing and expansion final capped areas using a handheld THC (total hydrocarbon) analyzer (FID).
- Only readings of 500 ppm or greater will be noted during the instantaneous monitoring survey.
- The survey will be done in the spring and the fall.



Proposed TSP Sampler Locations





Noise Monitoring Plan

Steady-State Sources

One-Hour Energy Equivalent Sound Level (LEQ-1hr) limit for:

- Acoustic emissions from steady-state sources at a landfill site.
- The higher of 55 dBA or background noise, during the daytime hours (07:00 to 19:00h); and
- The higher of 45 dBA or background noise, during the evening and night hours (19:00 to 07:00h).

Pest Control Devices

Pest control devices are expected to include impulsive sources (e.g., propane cannons), and quasi-steady impulsive sources (e.g., "whistles").

The MOE Landfill Guideline sets sound level limits for pest control devices at off-site points of reception.

Compliance Analysis

An acoustical consultant will take noise measurements and analyze the collected data and observations.

The receptor-based audit will evaluate sound levels due to the landfill against the applicable sound level limits to establish the compliance status of landfill-attributable sound levels.

> Annual Reports

Annual monitoring reports will be submitted in accordance with the Environmental Assessment (EA) and Best Management Practice Plan (BMPP) requirements.

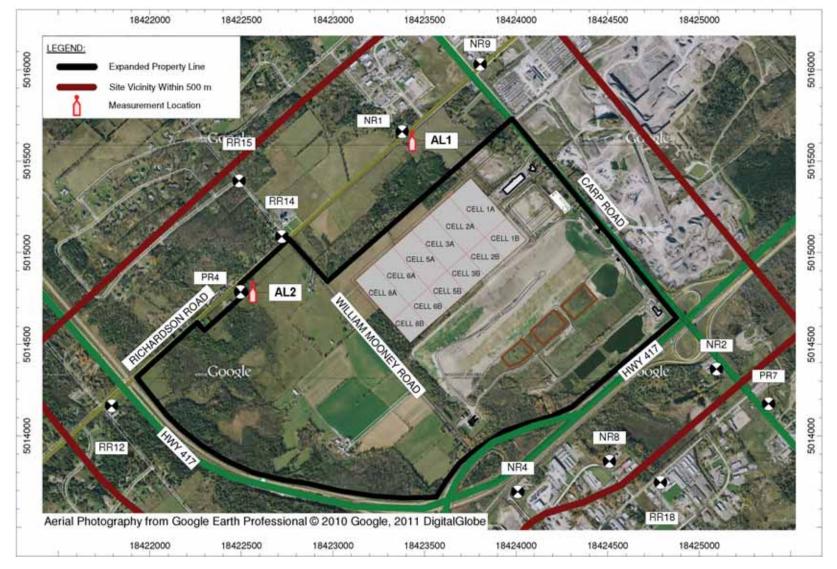


Performance Verification Measurement Locations





Receptor and Audit Measurement Locations





Atmospheric Best Management Practices (BMPs)

The following are representative Best Management Practices (BMPs) that Waste Management may implement, as required, in the construction and operation of the WCEC.

Dust

- Stationary Combustion Equipment
 - Conduct proper maintenance of landfill gas flares and engines.
- On-site Roadways
 - Limit truck traffic on exposed surface areas (working face, interim cover, stockpiles, etc.) to minimize disturbances and emissions from re-entrainment of loose materials and dust from exposed surface areas.
 - Pave primary internal haul routes.
 - Water and/or sweep all internal paved haul routes and external main access routes.
- Wind Erosion
 - Apply water suppressants to exposed, frequently disturbed or erodible surfaces (e.g., daily cover area, areas on the mound without vegetation and soil stockpiles) to minimize the amount of dust emissions.
 - Progressively seed vegetation on exposed surface area to minimize wind erosion and reduce amount of fugitive dust emissions.
- Material Handling and Processing
 - Install water spray bars on the processing equipment (i.e. impact crusher) and ensure function during crushing operation to control fugitive particulate matter emissions.

Landfill Gas

- Limit the size of the active working face to 900 square metres.
- Cover the landfill working face daily with appropriate cover materials to reduce odour emissions and LFG emissions.
- Apply interim cover and final cover to completed waste cells in a timely manner to reduce odour and LFG emissions.
- Repair interim cover and final cover on landfills when fissures, cracks or erosion of the soil cover are identified.



The following are representative Best Management Practices (BMPs) that Waste Management may implement, as required, in the construction and operation of the WCEC.

Combustion By-Products

- Routinely inspect truck traffic upon on-site arrival to ensure that waste trucks are in satisfactory condition.
- Routinely inspect landfill gas-fired engine-generators, LFG flares, the impact crusher diesel-fired engine and the leachate treatment facility emergency diesel-fired generator.

➤ Noise

- Keep all landfilling and processing equipment in good working order as deterioration may increase equipment sound levels.
- Ensure all construction equipment meets the sound emission standards as set out in MOE Publication NPC-115.
- Design vehicle movements to reduce the use of back-up alarms, where practical given safety considerations.
- Construction activities will be limited to daytime hours (07:00 to 19:00 hours), with the exception of a couple of dozers operating between 06:00 to 07:00 and 19:00 to 20:00 hours used only for stripping and daily cover.
- All construction activities will be prohibited before 09:00 during daytime hours on Sunday, or statutory or public holidays to comply with the City of Ottawa By-law 253.
- Implement a receptor-based monitoring program, through sound level measurements, to verify that the impulsive sound level limits are met during operation.
- The use of pest control devices will be limited to daytime hours (07:00 to 19:00 hours).
- Use of trained raptors, such as falcons, and other visual deterrent techniques should be investigated as alternative means of bird control.



Groundwater Best Management Practices (BMPs)

The following are representative Best Management Practices (BMPs) that Waste Management may implement, as required, in the construction and operation of the WCEC.

Landfill Construction

- Minimize extent of disturbed areas prior to vegetating or covering with liners.
- Use erosion and sediment controls along drainage routes and around soil stockpiles.
- Ensure adequate spill clean-up materials are kept available at the facility.

> Waste Water

• Prepare a Spill Prevention and Contingency Plan (SPCP) to include provisions to prevent and mitigate spills during storage, handling and transfer activities.

> Chemical Storage, Use and Handling

 Prepare and implement a Construction Quality Assurance Plan (CQA Plan) for the construction of the leachate containment & collections system (i.e., grade control, natural & synthetic liners, collection piping, natural & synthetic collection layers, attenuation & protection layers, etc.). Ensure that the leachate containment & collection system construction is supervised and inspected by certified technicians experienced in the use of the various construction materials.

Solid waste acceptance & handling

- All waste loads arriving at the site in open containers (e.g., roll-off boxes, etc.) should remain tarped or enclosed until the truck reaches the tipping face. This minimizes blowing litter escaping from waste trucks.
- Use portable litter fences to contain wind-blown litter at the tipping face.



Groundwater Best Management Practices (BMPs)

Road & parking area maintenance

- Maintain paved roads in good condition with regular sweeping to remove fine-grained soils.
- Re-apply granular surfaces to unpaved roads as necessary to prevent contamination of the road surface by fine grained soils.

Imported Fill

- Restrict the quantities of clean imported fill stored on-site to the minimum practical.
- Use erosion and sedimentation controls around fill stockpiles (i.e., covers, silt fences, berms, check dams, etc.).

Fires

- Prepare a Fire Prevention and Emergency Response Plan to describe prevention and fire suppression activities at the facility. The plan should be specific to the unique conditions and materials stored at a waste disposal site, and designed to limit groundwater contamination in the event of fire. The Plan should be reviewed and updated annually.
- Meet with local fire officials to discuss the Plan so that all parties are knowledgeable of the conditions on-site and the measures to be taken in the event of fire.





Surface Water Best Management Practices (BMPs)

The following are representative Best Management Practices (BMPs) that Waste Management may implement, as required, in the construction and operation of the WCEC.

> Erosion and Sediment Control

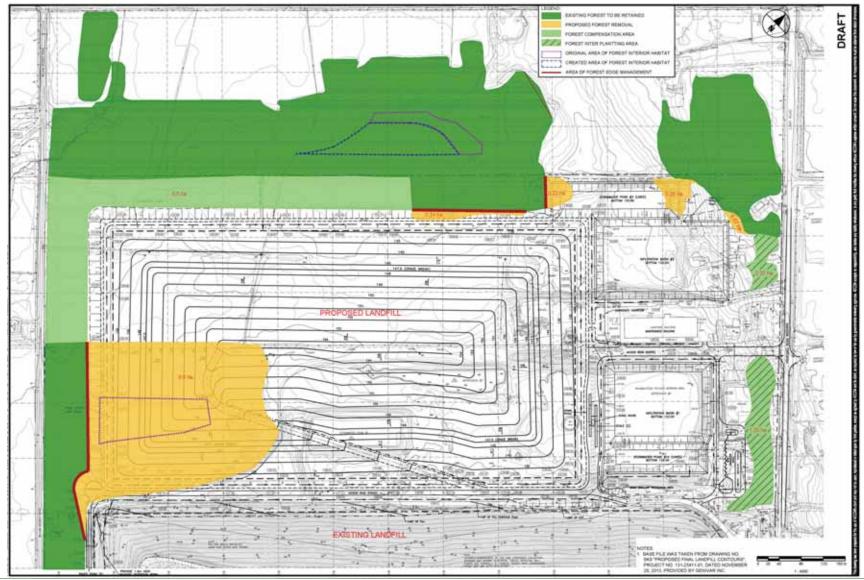
- Mitigation measures will be used for erosion and sediment control to prevent sediment from entering adjacent water bodies and leaving the site.
- Minimize soil mobilization and duration of bare soil exposure by stabilizing and protecting disturbed areas.
- Keep runoff velocities low.
- Protect disturbed areas from runoff.
- Trap sediment as close to the source as possible.
- Implement a maintenance and follow-up program.

Structural and Inspection Measures

- Inspect Ponds 1 and 2 monthly or after every severe storm (>25 mm) or after any on-site spills or upsets unless frozen or covered with snow.
- Inspect Infiltration Basin 1 and 2 monthly or after severe storm (>25 mm) unless frozen and covered with snow.
- Inspect Mini Transfer Area semi-annually and after each spill event or as required based on measurement results.
- Maintain the drainage system to minimize potential impacts of inclement and/or winter weather conditions to ensure that the system is operational at all times and there are no blockages.



Forest Compensation Plan



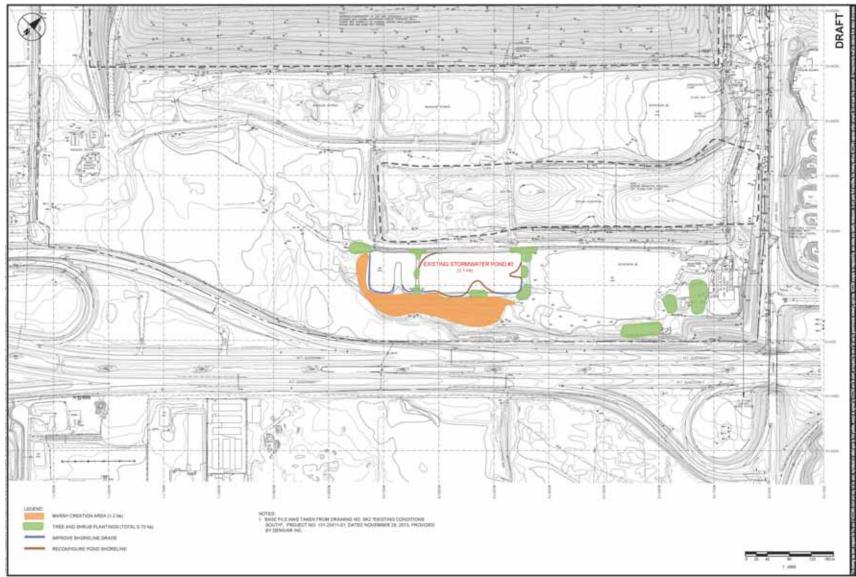


Forest Compensation Plan





Wetland Enhancement Plan





Appendix B

Comment Sheet



WASTE MANAGEMENT OF CANADA WEST CARLETON ENVIRONMENTAL CENTRE ENVIRONMENTAL COMPLIANCE APPROVAL					
OPEN HOUSE #1					
NAME:	Address:				
Email:	Phone Nu	MBER:			
DATE:					
Nould you like to be included on	OUR PROJECT MAILING LIST?	YES	NO		
Thank you for taking the time to pro ncreases the analytical value of yo geographically.					
Do you have any outstanding qu	estions regarding the WCEC D	esign Changes? If	so, please specify.		
Do you have any outstanding qu	estions regarding the Environ	mental Monitoring	Plan? If so, please		
specify.					
Do you have any outstanding que specify.	estions regarding any of the B	est Management P	ractices? If so, please		
WM Project Offi	ce , 254 Westbrook Road, 0		0 613-831-2840		
	Website: http://wceo	•			

Do you have any	outstanding question	ns regarding the T	raffic Impact Assess	sment? If so, please specify.

Do you have any additional comments regarding the West Carleton Environmental Centre Environmental Compliance Approval?

THANK YOU FOR SHARING YOUR FEEDBACK!

Under the *Freedom of Information and Protection of Privacy Act* and the *Environmental Assessment Act*, unless otherwise stated in the submission, any personal information such as name, address, telephone number and property location included in a submission will become part of the public record files for this matter and will be released, if requested, to any person.

WM Project Office, 254 Westbrook Road, Carp, ON K0A 1L0 613-831-2849 Website: <u>http://wcec.wm.com</u>



Appendix C

Notification



Announcement of Draft Documents for Stakeholder Review and Open Houses

Environmental Compliance Approval Application West Carleton Environmental Centre (WCEC)

Waste Management of Canada Corporation is proceeding with the development of the Environmental Compliance Approval applications to the Ministry of Environment (MOE) for the West Carleton Environmental Centre (WCEC).

Draft Documents for Public Review

In keeping with commitments made in the approved Environmental Assessment, Waste Management is providing for stakeholder review the draft Design and Operations Report (D&O), Environmental Monitoring Plan (EMP), and Best Management Practices (BMPs) for a period of 30 days from Thursday, May 15 to Monday, June 16, 2014.

Copies of draft material for stakeholder review are posted on the WCEC website - http://wcec. wm.com/resources . Hard copies of the draft material are also available for in-person review at our landfill site at 2301 Carp Road or at our hauling office at 254 Westbrook Road. Please contact either of the persons noted below to arrange for review of the draft material in-person. Stakeholder comments should be directed to the persons noted below by June 16.

Open Houses: June 5 and June 26

In addition to providing a comment period for draft material, Waste Management will host two Open House events to provide stakeholders with an opportunity to discuss the materials with company representative and consultants.

The Open Houses will be held at NeXT Restaurant located at 6400 Hazeldean Road in Stittsville from 6:00 pm to 9:00 pm on Thursday, June 5, 2014 and on Thursday, June 26, 2014. The first Open House will focus on the draft material and the second open house will address comments received by the end of the comment period June 16.

For more information on the draft documents and Open Houses, and to submit comments on the draft materials, please contact:

Tim Murphy Project Manager Waste Management of Canada Corporation 905-789-3328 tmurphy3@wm.com

Ross Wallace Landfill Manager Waste Management of Canada Corporation 613-831-3565 Rwallac3@wm.com



Waste Management of Canada Corporation

Announcement of Draft Documents for Stakeholder Review and Open Houses

Environmental Compliance Approval Application West Carleton Environmental Centre (WCEC)

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Copies of draft material for stakeholder review are posted on the WCEC website - <u>http://wcec.wm.com</u>. Hard copies of the draft material are also available for in-person review at our landfill site at 2301 Carp Road or at our hauling office at 254 Westbrook Road. Please contact either of the persons noted below to arrange for review of the draft material in-person. Stakeholder comments should be directed to the persons noted below by June 16.

Open Houses: June 4 (new date) and June 26

In addition to providing a comment period for draft material, Waste Management will host two Open House events to provide stakeholders with an opportunity to discuss the materials with company representative and consultants.

The Open Houses will be held at NeXT Restaurant located at 6400 Hazeldean Road in Stittsville from 6:00 pm to 9:00 pm on Wednesday, June 4, 2014 & on Thursday, June 26, 2014. The first Open House will focus on the draft material and the second open house will address comments received by the end of the comment period June 16.

For more information on the draft documents and Open Houses, and to submit comments on the draft materials, please contact:

Tim Murphy Project Manager Waste Management of Canada Corporation 905-789-3328 tmurphy3@wm.com

Ross Wallace Landfill Manager Waste Management of Canada Corporation 613-831-3565 <u>Rwallac3@wm.com</u>



Appendix D

Comments Received

COMMENT SHEET				
WASTE MANAGEMENT OF CANADA WEST CARLETON ENVIRONMENTAL CENTRE ENVIRONMENTAL COMPLIANCE APPROVAL OPEN HOUSE #1				
MAIL: bob. hillory@sympatico.ca PHONE NUMBER: 613-592-5108				
ATE: June 24/14 Vould you like to be included on our project mailing list? YES / NO				
VOULD YOU LIKE TO BE INCLUDED ON OUR PROJECT MAILING LIST? YES NO hank you for taking the time to provide us with your comments. Please include your mailing address. Your address increases the analytical value of your input as it allows members of the various study teams to evaluate issues eographically.				
All guestions I had were answered by consultants at the open House.				
o you have any outstanding questions regarding the Environmental Monitoring Plan? If so, please becify. <u>The EMP are satisfactory. All concerns</u> were addressed at the public meeting.				
by you have any outstanding questions regarding any of the Best Management Practices? If so, please becify. <u>My only concern is the groundwater contamination</u> but I feel that WM is providing the best monitoring at could be expected for the site:				

WM Project Office, 254 Westbrook Road, Carp, ON K0A 1L0 613-831-2849 Website: <u>http://wcec.wm.com</u> Do you have any outstanding questions regarding the Traffic Impact Assessment? If so, please specify.

I still have concerns that a second left hum lane is not provided at the existing tawance entrance.

Do you have any additional comments regarding the West Carleton Environmental Centre Environmental Compliance Approval?

Everything was answered by the consultants and WM stoff that were present. THANK YOU FOR SHARING YOUR FEEDBACK! Under the Freedom of Information and Protection of Privacy Act and the Environmental Assessment Act, unless otherwise stated in the submission; any personal information such as name, address, telephone number and property location included in a submission will become part of the public record files for this matter and will be released, if requested, to any person. WM Project Office, 254 Westbrook Road, Carp, ON K0A 1L0 613-831-2849 Website: http://wcec.wm.com



COMMENT SHEET

WASTE MANAGEMENT OF CANADA WEST CARLETON ENVIRONMENTAL CENTRE ENVIRONMENTAL COMPLIANCE APPROVAL

OPEN HOUSE #1

NAME: BEN KE	ATING		_ADDRESS: 50 GRAND	CEDAR COURT	PHONE NUMBER:
DATE: 6/6/201	4				
Would you L	IKE TO BE INCLUDE	D ON OUR PROJECT MAILING LIST?	YES	NO_	
	analytical value	o provide us with your comments. of your input as it allows members			
Do you have	any outstanding	g questions regarding the WCE	C Design Changes?	If so, please sp	ecify.
					
Do you have	any outstanding	g questions regarding the Envi	ronmental Monitorin	g Plan? If	
-		g questions regarding the Envir		-	r due to heavy rains
– Monitoring	g plan is good bu	t how would you fix problems If		oxins in the air o	rduetoheavyrains und water.
– Monitorin	g plan is good bu	t how would you fix problems If	you found too many to	oxins in the air o	-
– Monitorin	g plan is good bu	t how would you fix problems If	you found too many to	oxins in the air o	-
- Monitoring t o x i c	g plan is good bu surface	t how would you fix problems If	you found too many to i n t o	oxinsin the air o the gro	und water.
- Monitoring t o x i c Do you have	g plan is good bu surface	thow would you fix problems If water got	you found too many to i n t o	oxinsin the air o the gro	und water.
- Monitoring t o x i c Do you have	g plan is good bu surface	thow would you fix problems If water got	you found too many to i n t o	oxinsin the air o the gro	und water.
- Monitoring t o x i c Do you have	g plan is good bu surface	thow would you fix problems If water got	you found too many to i n t o	oxinsin the air o the gro	und water.

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Do you have any additional comments regarding the West Carleton Environmental Centre Environmental Compliance Approval?

THANK YOU FOR SHARING YOUR FEEDBACK!

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WM Project Office, 254 Westbrook Road, Carp, ON K0A 1L0 613-831-2849 Website: <u>http://wcec.wm.com</u>



Appendix C

Open House #2 Summary Report



Waste Management of Canada Corporation

West Carleton Environmental Centre – Environmental Compliance Approval – Summary of Open House #2

AECOM		
105 Commerce Valley Drive West, Floor 7	905 886 7022	tel
Markham, ON, Canada L3T 7W3	905 886 9494	fax
www.aecom.com		

Project Number: 60289364

Prepared by:

Date: June 2014



Statement of Qualifications and Limitations

The attached Report (the "Report") has been prepared by AECOM Canada Ltd. ("Consultant") for the benefit of the client ("Client") in accordance with the agreement between Consultant and Client, including the scope of work detailed therein (the "Agreement").

The information, data, recommendations and conclusions contained in the Report (collectively, the "Information"):

- is subject to the scope, schedule, and other constraints and limitations in the Agreement and the qualifications contained in the Report (the "Limitations");
- represents Consultant's professional judgement in light of the Limitations and industry standards for the preparation
 of similar reports;
- may be based on information provided to Consultant which has not been independently verified;
- has not been updated since the date of issuance of the Report and its accuracy is limited to the time period and circumstances in which it was collected, processed, made or issued;
- must be read as a whole and sections thereof should not be read out of such context;
- was prepared for the specific purposes described in the Report and the Agreement; and
- in the case of subsurface, environmental or geotechnical conditions, may be based on limited testing and on the assumption that such conditions are uniform and not variable either geographically or over time.

Consultant shall be entitled to rely upon the accuracy and completeness of information that was provided to it and has no obligation to update such information. Consultant accepts no responsibility for any events or circumstances that may have occurred since the date on which the Report was prepared and, in the case of subsurface, environmental or geotechnical conditions, is not responsible for any variability in such conditions, geographically or over time.

Consultant agrees that the Report represents its professional judgement as described above and that the Information has been prepared for the specific purpose and use described in the Report and the Agreement, but Consultant makes no other representations, or any guarantees or warranties whatsoever, whether express or implied, with respect to the Report, the Information or any part thereof.

Without in any way limiting the generality of the foregoing, any estimates or opinions regarding probable construction costs or construction schedule provided by Consultant represent Consultant's professional judgement in light of its experience and the knowledge and information available to it at the time of preparation. Since Consultant has no control over market or economic conditions, prices for construction labour, equipment or materials or bidding procedures, Consultant, its directors, officers and employees are not able to, nor do they, make any representations, warranties or guarantees whatsoever, whether express or implied, with respect to such estimates or opinions, or their variance from actual construction costs or schedules, and accept no responsibility for any loss or damage arising therefrom or in any way related thereto. Persons relying on such estimates or opinions do so at their own risk.

Except (1) as agreed to in writing by Consultant and Client; (2) as required by-law; or (3) to the extent used by governmental reviewing agencies for the purpose of obtaining permits or approvals, the Report and the Information may be used and relied upon only by Client.

Consultant accepts no responsibility, and denies any liability whatsoever, to parties other than Client who may obtain access to the Report or the Information for any injury, loss or damage suffered by such parties arising from their use of, reliance upon, or decisions or actions based on the Report or any of the Information ("improper use of the Report"), except to the extent those parties have obtained the prior written consent of Consultant to use and rely upon the Report and the Information. Any injury, loss or damages arising from improper use of the Report shall be borne by the party making such use.

This Statement of Qualifications and Limitations is attached to and forms part of the Report and any use of the Report is subject to the terms hereof.



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3.	Notification	1
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Appendix B.	Comment Sheet
Appendix C.	Advertisement / Notification
Appendix D	Comments Received



1. Introduction

Waste Management of Canada Corporation (WM) committed in the approved Environmental Assessment (EA) for the West Carleton Environmental Centre (WCEC) to consult with stakeholders, government agencies, and First Nations and Aboriginal communities regarding Environmental Compliance Approvals (ECA), Environmental Monitoring Plans (EMP), and Best Management Practices (BMP) prior to the submission of a formal application to the Ministry of the Environment (MOE).

The consultation commitment included advertisement and notification of availability of draft material on the project website for a 30-day review period (e.g., local weekly newspapers, project website, stakeholder email, neighbours letter), conduct of consultation events on draft material, if needed, (e.g., Open Houses), and posting on the project website the final material submitted to the MOE, including a summary of the stakeholder consultation process.

WM posted the draft material on the project website for a 30-day public review period from Thursday, May 15th to Monday, June 16th. WM also provided hard copies of the draft material for public review at their offices located at 254 Westbrook Road and 2301 Carp Road in Ottawa. WM issued notices of the posting in three local weekly newspapers in Ottawa (i.e., Stittsville, Kanata, and Carp) on Thursday, May 15th and Thursday, May 22nd. WM also committed to conduct two open houses on June 5th and June 26th to review the draft material and stakeholder comments.

This Report summarizes activities from Open House #2 held on June 26th, including display boards and stakeholder comments.

2. Overview

The intent of Open House #2 was to address the comments received by the end of the comment period. Further, it provided stakeholders who did not attend Open House #1 with an opportunity to review draft material related to the WCEC ECA, including the Design and Operations Report (D&O), Environmental Monitoring Plan (EMP), and Best Management Plans (BMP). The Open House showed display boards (Appendix A) that summarized comments received by the end of the comment period and provided an overview of the draft material related to the WCEC ECA. WM staff and consultants were available to discuss with stakeholders the comments received, draft ECA materials, receive further comments, and answer related questions. As stakeholders arrived, WM staff asked them to sign-in and provided them with a comment sheet (Appendix B) that included questions regarding the draft information presented. They had an option of filling out a comment sheet on-site or providing comments by mail, email, or fax.

3. Notification

WM placed advertisements for Open House #1 and Open House #2 in three (3) local weekly newspapers in Ottawa (i.e., Stittsville, Kanata, and Carp) on Thursday, May 15 and Thursday, May 22. The initial advertisement showed the Open House for Thursday, June 5. The second advertisement showed the revised date of Wednesday, June 4. WM also provided notification via email to persons listed on WM's stakeholder distribution list, posting on the project website at http://wcec.wm.com, and drop-off to neighbours.

WM also provided notification via email to First Nation and Aboriginal communities, and the Government Review Team (GRT).

Copies of the advertisement and notifications are included in Appendix C.



4. Attendance

Thirteen (13) individuals registered at Open House #2. The following WM staff and consultants attended the Open House to engage stakeholders:

WM	Consulting Team
 Tim Murphy Wayne French Cindy Durepos 	AECOM 4. Larry Fedec 5. Valerie McGirr WESA 6. Dave Harding
	RWDI 7. John DeYoe
	FoTenn 8. Jamie Posen
	WSP 9. Peter Brodzikowski

June 26, 2014 – NeXT Restaurant, 6400 Hazeldean Road, Stittsville

5. Comments Received

WM staff and consultants received comments and questions from stakeholders at the Open House. WM staff received no comment sheets at the Open House and two (2) emails from stakeholders following the Open House.

Following the Open House, WM sent an email to the stakeholders on the project contact list that included copies of the display boards and comment sheet.

The key issues raised by stakeholders at Open House #2, and through correspondence afterwards, were as follows:

- Clarify explanation of groundwater impacts
- Build turn lanes into site before construction
- Place berms along William Mooney Road
- Show diversion facilities on overall site plan
- Reduce overall volume of the landfill site
- Change slope and height of landfill to reduce footprint
- Clarify explanation of interior forests to north of landfill

WM staff and consultants plan to review the issues and concerns raised and address them as appropriate as the project proceeds.



Appendix A

Display Boards



Stakeholder Comment Process

- Waste Management (WM) provided draft ECA documents, including a Design and Operations Report (D&O), Environmental Monitoring Plan (EMP), and Best Management Practices (BMP), on its website for stakeholder review and comment from May 15, 2014 to June 16, 2014
- WM hosted an Open House on June 5, 2014 to provide stakeholders with an opportunity to discuss the draft ECA materials
- WM is hosting an Open House on June 26, 2014 to profile for stakeholders comments received by WM during the comment period
- Comments were received from approximately 20 stakeholders, including the City of Ottawa, Don't Let Ottawa Go To Waste Coalition, Environment Canada, and individual citizens
- WM will consider the comments provided in the finalization of the ECA for submission to the Ministry of Environment (MOE)

Stakeholder Feedback – General

- > Building a new landfill on an already contaminated site
- Lack of property for a buffer space/attenuation zone for a new landfill
- Much too close to businesses and homes
- > Too many families and homes in very close vicinity of the proposed new landfill
- Decrease of property values
- Prevention of economic growth of the area
- The community has endured WM's business in the area long enough
- Commitment to "finalize and implement a Community Host Agreement with the City of Ottawa" are not yet fulfilled





Stakeholder Feedback - Design and Operations (D&O)

- Details presented in the ECA documents include numerous changes to the design and mitigation originally evaluated in the EA without any evaluation of how the changes will affect the overall environmental and social impacts
- Without such an environmental evaluation of proposed changes, it is not possible to determine if conclusions made in the EA still apply
- Contrary to the WCEC vision and commitment presented in the EA that was approved by the Minister of the Environment, the ECA documentation present little information on the diversion facilities that are to be the focus of the undertaking
- Can you mine the waste accumulated in the old landfill site?
- Ash, Cement Kiln Dust, Bag House Fines should not be used as Alternative Daily Cover (ADC), due to their fine-grained nature
- Waste management practices for ADC should minimize the opportunity for erosion by wind or precipitation

Stakeholder Feedback - Traffic

- Increased traffic
- > Lack of a second left turn lane at the entrance to Laurysen Kitchens
- Show the flow of public traffic to and from the mini-transfer station
- Show the current landfill design (including ponds) on the intersection improvement drawing
- Show driveways on the west side of Carp Road as "closed" on the intersection improvement drawing
- Note that the Laurysen driveway could be operational for some time after the landfill and new intersection is open
- Would there be any changes to operations if the landfill is open before the Laurysen business is re-located?
- > What are the "new" traffic counts referred to on the display board?
- There are 75 left turning trucks estimated in the peak hour. How many trucks could fit in the northbound left turn lane at one time?





Stakeholder Feedback - Environmental Monitoring Plan (EMP)

- The EMP does not fulfill the commitment to establish concentration limits on the effluent infiltrating to the groundwater from the unlined pond stages
- The groundwater monitoring program does not include monitoring of private wells within 3 kilometers of the landfill
- > Monitoring plan is good, but how would you fix problems?
- > The EMP is satisfactory

Stakeholder Feedback - Surface Water Best Management Practice (BMP)

> Potential contamination of surface water that could infiltrate into groundwater

Stakeholder Feedback - Groundwater Best Management Practice (BMP)

- Potential increased underground water contamination
- Lack of being able in identifying contaminants coming from the proposed new vs. old landfill
- Concerned about groundwater, but WM is providing best monitoring that can be expected
- No implementation plan for a purge well system has been provided, and no explanation as to why this is not required is provided

Stakeholder Feedback - Biology Best Management Practice (BMP)

- Cutting of mature trees
- Environment Canada (EC) staff are fully engaged in bank swallow consultation and don't need to initiate a parallel review of the Design and Operations Report (D&O), Environmental Monitoring Plan (EMP), and Best Management Practices (BMPs) with respect to Bank Swallows





Stakeholder Feedback - Air (Dust / Combustion By-Product) Best Management Practice (BMP)

How idling of vehicles will be minimized or how vehicles will be staged and sequenced on-site to minimize idling

Stakeholder Feedback - Air (Noise) Best Management Practice (BMP)

- Increased noise due to trucks, bird cannons, etc. ...
- Inconsistencies between the Gull Management Plan, Noise BMP and EA regarding use of bird bangers and pyrotechnics

Stakeholder Feedback - Air (Odour) Best Management Practice (BMP)

Smell will continue no matter what WM says it will do to prevent it

Stakeholder Feedback - Air (Gas) Best Management Practice (BMP)

> Monitoring plan is good, but how would you fix problems?





Appendix B

Comment Sheet



WASTE MANAGEMENT OF CANADA WEST CARLETON ENVIRONMENTAL CENTRE ENVIRONMENTAL COMPLIANCE APPROVAL OPEN HOUSE #2			
Email:	Phone Nu	MBER:	
DATE:			
Would you like to be included	ON OUR PROJECT MAILING LIST?	YES	NO
	provide us with your comments. F your input as it allows members of		
Do you have any outstanding (questions regarding the WCEC I)esign Changes? li	f so, please specify.
	questions regarding the Environ	mental Monitoring	Plan? If so, please
specify.			
	nuestions regarding any of the P	lost Monogomont E	
specify.	questions regarding any of the E	est management r	ractices ? It so, please
<u> </u>			
WM Project O	ffice, 254 Westbrook Road, (Website: http://wce	-	_0 613-831-2849

Do you have any outstanding questions regarding the Traffic Impact Assessment? If so, please specify.	Do you have any	outstanding q	uestions regardi	ing the Traffic	Impact Assessi	ment? If so, please	specify.
---	-----------------	---------------	------------------	-----------------	----------------	---------------------	----------

Do you have any additional comments regarding the West Carleton Environmental Centre Environmental Compliance Approval?

THANK YOU FOR SHARING YOUR FEEDBACK!

Under the *Freedom of Information and Protection of Privacy Act* and the *Environmental Assessment Act*, unless otherwise stated in the submission, any personal information such as name, address, telephone number and property location included in a submission will become part of the public record files for this matter and will be released, if requested, to any person.

WM Project Office, 254 Westbrook Road, Carp, ON K0A 1L0 613-831-2849 Website: <u>http://wcec.wm.com</u>



Appendix C

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For more information on the draft documents and Open Houses, and to submit comments on the draft materials, please contact:

Tim Murphy Project Manager Waste Management of Canada Corporation 905-789-3328 tmurphy3@wm.com

Ross Wallace Landfill Manager Waste Management of Canada Corporation 613-831-3565 Rwallac3@wm.com



Waste Management of Canada Corporation

Announcement of Draft Documents for Stakeholder Review and Open Houses

Environmental Compliance Approval Application West Carleton Environmental Centre (WCEC)

Waste Management of Canada Corporation is proceeding with the development of the Environmental Compliance Approval applications to the Ministry of Environment (MOE) for the West Carleton Environmental Centre (WCEC).

Draft Documents for Public Review

In keeping with commitments made in the approved Environmental Assessment, Waste Management is providing for stakeholder review the draft Design and Operations Report (D&O), Environmental Monitoring Plan (EMP), and Best Management Practices (BMPs) for a period of 30 days from Thursday, May 15 to Monday, June 16, 2014.

Copies of draft material for stakeholder review are posted on the WCEC website - <u>http://wcec.wm.com</u>. Hard copies of the draft material are also available for in-person review at our landfill site at 2301 Carp Road or at our hauling office at 254 Westbrook Road. Please contact either of the persons noted below to arrange for review of the draft material in-person. Stakeholder comments should be directed to the persons noted below by June 16.

Open Houses: June 4 (new date) and June 26

In addition to providing a comment period for draft material, Waste Management will host two Open House events to provide stakeholders with an opportunity to discuss the materials with company representative and consultants.

The Open Houses will be held at NeXT Restaurant located at 6400 Hazeldean Road in Stittsville from 6:00 pm to 9:00 pm on Wednesday, June 4, 2014 & on Thursday, June 26, 2014. The first Open House will focus on the draft material and the second open house will address comments received by the end of the comment period June 16.

For more information on the draft documents and Open Houses, and to submit comments on the draft materials, please contact:

Tim Murphy Project Manager Waste Management of Canada Corporation 905-789-3328 tmurphy3@wm.com

Ross Wallace Landfill Manager Waste Management of Canada Corporation 613-831-3565 <u>Rwallac3@wm.com</u>



Appendix D

Comments Received



Appendix D

Correspondence with Aboriginal Communities

From: ong Ken, Michelle <Michelle.WongKen@aecom.com> Sent: ednesday, May 14, 2014 3:11 PM To: lgonquins@nrtco.net Cc: edec, Larry; Murphy, Tim - BUR Subject: est Carleton Environmental Centre - Environmental Compliance Approval Application (Draft) Attachments: otice of WCEC ECA Open Houses.pdf

Hi Janet and Nona,

Please be advised that Waste Management of Canada Corporation is proceeding with the development of the Environmental Compliance Approval applications to the Ministry of Environment (MOE) for the West Carleton Environmental Centre (WCEC).

Draft Documents for Review

In keeping with commitments made in the approved Environmental Assessment, we are writing to inform you that the draft Design and Operations Report (D&O), Environmental Monitoring Plan (EMP), and Best Management Practices (BMPs) are available for your review at the Project's website (http://wcec.wm.com/resources). Please provide any comments that you may have on these documents by June 16, 2014.

Open Houses: June 4 and June 26

In addition to providing a comment period for draft material, Waste Management is hosting two Open House events to provide stakeholders with an opportunity to discuss the materials with company representative and consultants. For details regarding the Open Houses, please refer to the attached Notice. We have also attached a CD copy of these materials for your convenience to facilitate your review by June 16, 2014.

Please do not hesitate to contact Larry Fedec if you have any questions or if you would like to arrange a meeting to review these materials.

Kind regards,

Michelle Wong Ken on behalf of Larry Fedec

Larry M. Fedec, P.Eng., M.B.A. Senior Environmental Engineer Environment **NEW** D: 905.747.7434 C: 416.571.2130 Larry.Fedec@aecom.com

AECOM **NEW** 105 Commerce Valley Drive West, 7th Floor, Markham, Ontario L3T 7W3 T: 1.905.886.7022 F: 1.905.886.9494 www.aecom.com

To better serve our clients across the region, AECOM's Markham offices have joined together. Effective October 21st, 2013 we will be located at the above address. Please update your records accordingly.

From: ong Ken, Michelle <Michelle.WongKen@aecom.com> Sent: ednesday, May 14, 2014 3:11 PM To: elanieP@metisnation.org; JamesW@metisnation.org Cc: edec, Larry; Murphy, Tim - BUR Subject: est Carleton Environmental Centre - Environmental Compliance Approval Application (Draft) Attachments: otice of WCEC ECA Open Houses.pdf

Hi Melanie and James,

Please be advised that Waste Management of Canada Corporation is proceeding with the development of the Environmental Compliance Approval applications to the Ministry of Environment (MOE) for the West Carleton Environmental Centre (WCEC).

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Appendix E

Correspondence with Government Review Team From: ong Ken, Michelle <Michelle.WongKen@aecom.com> Sent: ednesday, May 14, 2014 3:10 PM Cc: edec, Larry; Murphy, Tim - BUR Subject: est Carleton Environmental Centre - Environmental Compliance Approval Application (Draft) Attachments: otice of WCEC ECA Open Houses.pdf

Dear Government Review Team Member:

Please be advised that Waste Management of Canada Corporation is proceeding with the development of the Environmental Compliance Approval applications to the Ministry of Environment (MOE) for the West Carleton Environmental Centre (WCEC).

Draft Documents for Review

In keeping with commitments made in the approved Environmental Assessment, we are writing to inform you that the draft Design and Operations Report (D&O), Environmental Monitoring Plan (EMP), and Best Management Practices (BMPs) are available for your review at the Project's website (http://wcec.wm.com/resources). Please provide any comments that you may have on these documents by June 16, 2014.

Open Houses: June 4 and June 26

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AECOM **NEW** 105 Commerce Valley Drive West, 7th Floor, Markham, Ontario L3T 7W3 T: 1.905.886.7022 F: 1.905.886.9494 www.aecom.com

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Attachment 7

#	and Operations Report Description	Location Where Item Is Covered
# A.	Landfill Design Report (Regulation Section 6)	
	A legal survey of the site;	D&O Section 1.4, Appendix 1-B & 1-C
a) b)	An up to date plan and description of the site and the area within 500	
5)	metres of the site that covers:	
a.	all property and property boundaries,	D&O Figure 1-1, Appendix 1-B
b.	all buildings, roads and utility corridors,	D&O Section 1.1.4, Dwg. 2 and 3
C.	land contours, surface water drainage, water bodies, rights-of-way	D&O Section 1.1.2, Dwg. 2 and 3
	and other easements,	
d.	forested areas,	D&O Dwg. 2 and 3
e.	land uses and land use designations, and	D&O Section 1.3
f.	property conditions not otherwise covered.	D&O Dwg. 2 and 3
c)	Detailed plans, specifications and descriptions for the design of the site, including:	See below
a.	A plan and description of the waste fill area, base contours for waste disposal, base contours for any leachate collection system, top contours for waste disposal and top contours with final cover,	D&O Section 4, Dwg. 4 to 7
b.	the total waste disposal volume,	D&O Table 4-1
C.	a materials balance between the sources of soils, on or off the site, and the uses of soils on the site,	D&O Table 4-1
d.	a hydrogeological assessment of the suitability of the site for the landfilling of municipal waste that considers the geologic and hydrogeologic conditions of the site, the design of the site and the monitoring and contingency plans,	WESA - Hydrogeologic Assessment Report covers all requirements.
e.	a geotechnical assessment of the suitability of the site for the landfilling of municipal waste that considers bearing capacity, differential settlement and slope stability during construction, operation and after closure, and that addresses the potential effects on any liner or leachate collection system,	D&O Appendix 3-B
f.	a description of the expected quality and quantity of leachate,	D&O Section 6
g.	detailed plans, specifications and descriptions of any liner system necessary to control leachate, including construction and quality assurance and quality control procedures for the liner materials and liner system installation,	D&O Section 4.4, Dwgs. 5 to 8 and Appendix 4-B
h.	detailed plans, specifications and descriptions of any leachate collection, treatment and disposal system necessary to control leachate, including construction and quality assurance and quality control procedures for the system components and system installation,	D&O Section 4.4, 4.5 and 6, Appendix 4-B and Dwgs. 6 to 8
i.	an assessment of the potential for subsurface migration of landfill gas at the site and of any control system necessary for monitoring or controlling the migration,	WESA - EMP discusses the monitoring program for subsurface gas (Section 5.0), and provides a trigger mechanism (Section 7.3) and contingency plan (Section 7.4.3). Assessment of the potential for landfill gas migration is covered in Section 5.6 of the D&O.
j.	detailed plans, specifications and descriptions of any system necessary for controlling landfill gas by venting it or by collecting and burning or using it, including construction and quality assurance and quality control procedures for the system components and system installation,	D&O Section 5, Figure 5-1 to 5-7
k.	an assessment of the potential impacts on surface water features that may be caused by the site or operations at the site,	WESA - EMP presents the surface water monitoring program (Section 4.0), trigger mechanisms (Section 7.2) & contingency plans (Section 7.4.2). AECOM - Surface Water Impact Assessment Report

	and Operations Report Preparation			
#	Description	Location Where Item Is Covered		
I.	detailed plans, specifications and descriptions of the system for collecting, directing and discharging surface water, including details of any sediment control or other features and including construction, quality assurance and quality control procedures for the system components and system installation,	D&O Section 8, Dwg. 4, 9 and 10		
m.	detailed plans, specifications and descriptions of monitoring facilities for leachate, ground water, surface water and, where appropriate, landfill gas,	WESA - plans and descriptions of the monitoring facilities are provided in the EMP.		
n.	an assessment of potential noise impacts due to operations at the site and to local trucking related to operations at the site, including an evaluation of any proposed noise control measures,	RWDI – The detailed noise assessment outlining the predicted noise impacts related to the site operations and trucking activities is outlined in the Acoustic Assessment Report		
0.	an assessment of potential visual impacts on nearby properties due to the site and site operations,	AECOM		
p.	detailed plans, specifications and descriptions of the buffer area and ancillary facilities, including any screening, landscaping, fencing, weigh scales, buildings, structures, access roads, internal roads, holding areas for cover material, holding areas for rejected waste or materials for recycling, and other holding areas,	D&O Section 3, 4 and 7, Drawing 4		
q.	detailed plans, specifications and descriptions of the contaminant attenuation zone, if one is necessary,	D&O Section 1.2.1, Figure 1-1		
r.	an estimate of the contaminating life span of the site with respect to contaminants involved in the subsurface migration of landfill gas and an estimate of the service life of any engineered facilities associated with the subsurface migration of landfill gas,	FA Report plus WESA		
S.	an estimate of the contaminating life span of the site with respect to contaminants in leachate, unless a new landfilling site is being established and the design for ground water protection features of the site meets the criteria set out in subsection 10 (4) or (5),	FA Report plus WESA		
t.	an estimate of the service life of every engineered facility associated with leachate, which may be specified as the service life provided for in Schedule 1, 2, 3 or 4 if the engineered facility meets the relevant conditions set out in that Schedule,	D&O Section 4.4.3.17		
u.	details of any facilities intended to control or change the contaminating life span of the landfilling site,	N/A		
v.	contingency plans that can be implemented to control and dispose of leachate produced in a quantity greater than expected or with a quality worse than expected, including specifications and descriptions in sufficient detail to demonstrate the feasibility of the plans,	D&O Section 6.5		
w.	contingency plans that can be implemented to control and dispose of landfill gas migrating in the subsurface in a quantity greater than expected or with a quality worse than expected, including specifications and descriptions in sufficient detail to demonstrate the feasibility of the plans,	WESA - Landfill gas migration contingency plan provided in EMP (Section 7.4.3)		
х.	a description of the source, nature and quality of daily cover, including, with respect to material not normally used for daily cover, a discussion of its benefits and limitations, a description of quality assurance and quality control procedures for daily cover and a description of application rates and application procedures for daily cover, including the frequency and timing of application of daily cover if other than at the end of each working day.			
у.	a description of the nature, quality and quantity of final cover, including construction details and quality assurance and quality control procedures for the materials to be used and their installation.	D&O Section 4.6.7		
Z.	a site closure plan, including details of the proposed end use of the site, the appearance of the site after closure, revegetation, landscaping, the construction of new facilities, and the removal of existing facilities to facilitate closure, post-closure care and site end use, and	D&O Section 4.8		

	and Operations Report Preparation				
#	Description	Location Where Item Is Covered			
aa.	a summary of the main characteristics of the landfilling site, including the maximum daily quantity of waste that will be accepted for disposal, the estimated annual average quantity of waste that will be accepted for disposal, the area of the landfilling site, the area of the waste fill area, the total waste disposal volume, the estimated waste disposal capacity in tonnes, any subcategories of municipal waste that are not expected to be received or that will not be accepted for disposal, and the estimated date of site closure.	D&O Section 2, 4.2 & Table 4-1			
В.		WESA - Hydrogeologic Assessment Report covers all requirements in Items B and C.			
C.	Hydrogeological Assessment (Guideline Table 2, p. 20) – listed for reference only, no direct impact on content/format of D & O				
a)	A general description of the geologic and hydrogeologic conditions of the (regional) area in which the site is located. This description should include a description of the stratigraphy, groundwater quantity and quality, groundwater movement, and should characterize the significance of groundwater resources and the use made of these				
b)	A detailed description of the geologic and hydrogeologic conditions occurring at the site based on a detailed investigation of the site which establishes soil, rock and groundwater conditions, including:				
a.	the drilling of boreholes hydraulically upgradient and hydraulically downgradient of the potential waste fill area and in other locations, including areas adjacent to the site where necessary, to a depth and in a manner sufficient to:				
	provide soil samples of a number and type to adequately characterize the thickness and nature of soil units underlying the site;				
	provide soil samples of a number and type for laboratory analysis of physical and/or chemical properties;				
	permit, as necessary, the geological and/or geophysical logging of boreholes;				
	permit installation, as necessary, of groundwater monitoring facilities; permit other tests of soil and/or borehole properties, as necessary;				
	and				
	permit testing of bedrock properties, as necessary.				
b.	the use of drilling, coring, drive-points, test pitting, trenching and/or other means of soil excavation/sample extraction to obtain representative samples of soil and/or rock for the testing of soil and/or rock properties and chemistry/quality;				
C.	the installation in boreholes of groundwater monitoring facilities in a manner appropriate for the collection of groundwater samples or the measurement of groundwater levels or hydraulic pressures representative of the hydrostratigraphic units at the site;				
d.	the development and purging of groundwater monitoring facilities, as necessary, in a manner and over a period of time sufficient to ensure that water level/hydraulic pressure data collected in the groundwater monitor and/or groundwater samples collected from the groundwater monitor are representative of hydrogeologic conditions at the site;				
е.	the collection, in a manner which ensures data are representative of a sufficient number of measurements of groundwater level/hydraulic pressure in groundwater monitoring facilities to confirm, as necessary:				
i.	that the groundwater monitor is functioning properly; and,				
	attainment of static water level;				
f.	and to establish, as necessary, differences in water level/hydraulic pressure both laterally and vertically at the site;				

-	and Operations Report Preparation				
#	Description	Location Where Item Is Covered			
g.	the collection of groundwater samples from groundwater monitoring facilities in a manner that ensures these samples are in a sufficient number and over a sufficient period of time to establish the potential seasonal and/or spatial/depth variability of groundwater chemistry/quality; the analysis of groundwater samples from groundwater monitoring				
h.	facilities for the parameters listed in Schedule 5, column 1, unless alternative parameters are considered more appropriate; and				
i.	the use of pumping tests, slug tests and other procedures, as necessary, to measure the in-situ permeability of geologic materials at the site;				
c)	An interpretation of the results of the detailed investigation of the site, including the following plans, specifications and descriptions under existing conditions, during site construction and operation, and following site closure:				
a.	a contour plan of the ground surface, showing surface watercourses and bodies of surface water, if any;				
b. c.	a contour plan of the water table, showing expected directions of groundwater movement; piezometric contour plans for each aquifer, showing expected				
d.	directions of groundwater movement; a description of any aquifers and their interconnection, with				
e.	generalized estimates of groundwater flow; a description of the background quality of the groundwater, and the existing and potential uses of the groundwater;				
f.	site plans and cross sections of the hydrogeologic conditions;				
g.	the identification of any unstable soils or unstable bedrock;				
h.	a description of the flow velocity and volumetric flow rate in the aquifers;				
i.	a water balance analysis considering precipitation, surface water drainage, infiltration, groundwater flow, exfiltration and evapotranspiration; and				
j.	the potential flow paths and contaminant attenuation capabilities in the event leachate leaves the waste fill area in planned or unplanned quantities.				
d)	An assessment of the suitability of the site for waste disposal purposes considering the regional and site specific geologic and hydrogeologic conditions, the design of the site, the monitoring of potential groundwater impacts, and the contingency plans for the control of leachate and landfill gas.				
D.		WESA - EMP presents the surface water monitoring program (Section 4.0), trigger mechanisms (Section 7.2) & contingency plans (Section 7.4.2). AECOM - Surface Water Impact Assessment Report			
a)	A general description of the surface water features of the area (watershed) in which the site is located.	Hydrogeologic Assessment report Section 4.1. Also, D & O Section 1 & 8			
b)		Hydrogeologic Assessment report Section 5.1. Also, D & O Section 1 & 8			

	and Operations Report	
#	Description	Location Where Item Is Covered
c)	A detailed surface water investigation to assess water quality,	AECOM - Surface Water Impact Assessment Report
	quantity and habitat conditions of the surface water features identified on the site, any surface water features flowing through the	
	site, and any surface water features that are to receive a surface	
	water discharge from the site, including:	
a.	a surface water quantity program to assess current streamflow	
	conditions, including low flow characteristics and stream-aquifer	
h	interaction, that includes periodic measurements of streamflow;	
b.	a surface water quality program to assess current surface water quality to establish seasonal variations over a period of one year,	
	with surface water samples obtained:	
i.	once for any compounds known to be commonly in industrial or	
	agricultural use in the proposed site's watershed to assess whether	
	any of these should be included in the surface water monitoring	
	program; semi-annually and analyzed for the parameters listed in Schedule 5,	
	column 3; and	
iii.	on six other occasions analyzed for the parameters listed in	
	Schedule 5, column 4; and unless alternative parameters and	
	frequencies are considered more appropriate.	
C.	a benthic community inventory where considered appropriate based on factors such as the location, sensitivity or use of the surface water	
	feature.	
d)	An interpretation of the results of the detailed surface water	
	investigation of the site, any surface water features flowing through	
	the site, and any surface water features that are to receive a direct	
a.	discharge from the site, including: plans showing all existing surface water features;	
a. b.		
D.	a description of current surface water quality, and the existing and proposed surface water uses, including:	
i.	a summary of sampling results;	
ii.	a review of data available from other sources, including the Ministry's	
	provincial surface water quality monitoring network for any stations	
	upstream or downstream of the site;	
C.	a detailed hydrologic assessment of the surface water features, including:	
i.	changes to the frequency, magnitude and duration of streamflow at	
	key locations entering, passing through and discharging from the	
ii.	changes to surface water flood levels within watercourses entering,	
	passing through and discharging from the site that have an upstream	
iii	drainage area greater than 125 ha; changes to average annual water budgets, including	
	evapotranspiration, infiltration, surface runoff and groundwater	
	recharge/discharge volumes expressed over the site area and the	
	contributing drainage area; and	
IV.	changes to temperature and average annual sediment loading to receiving watercourses at key locations discharging from the site.	
d.	the potential leachate flow paths and location of any intersection with	
	surface water features within 500 m of the waste fill area.	
e)	An assessment of the suitability of the site for waste disposal	
	purposes considering the area in which the site is located, on-site	
	and receiving surface water features, the design of the site, and the contingency plan for the control of leachate.	
Ε.		N/A
	impact on content/format of D & O	
F.	Maximum Waste Loadings for Generic Design Opertions	D&O Section 4.4.3.17
	(Guideline Table 5, p. 37) – no direct impact on content/format of	
G.	D & O Foundation and Clayey Liner Design (Guideline Table 6a, p. 39)	
Э.		
a)	A description of the foundation design and materials of construction,	D&O Section 4.4, Appendix 3-B
	including a discussion of the capability of the foundation to support	
	any expected static and dynamic loadings.	

	and Operations Report Preparation		
#	Description	Location Where Item Is Covered	
b)	Data showing fluctuations in the depth of the water table and the seasonal high and low watertable in relation to the foundation or liner system.	Discussion of foundation /liner system in relation to water table is in D & O - Dwg 5	
c)	Sufficient data to evaluate the engineering properties of the foundation and, if proposed, the clayey liner materials. This should include data relating to the Atterberg limits, organic carbon content, grain size distribution, mineralogy, strength, hydraulic conductivity, compressibility and, when appropriate, compaction curves. The report should also clearly indicate other parameters used by the designer (e.g., diffusion coefficients, partitioning coefficients [Koc], effective porosity, any other parameter used in the design or analysis) and provide data and/or references supporting the choice of these parameters.	D&O Appendix 3-B and 4-B	
d)	To address the issue of clay/leachate compatibility, data showing that there will be no significant increase in hydraulic conductivity or reference given to tests that have been conducted on soil that is mineralogically similar using a leachate similar to that anticipated for the site.	D&O Section 4 & 6	
e)	Engineering analyses, based on the data gathered through subsurface exploration and laboratory testing programs, that provide:	See below	
a.	estimates of the total and differential settlement, including immediate settlement and primary and secondary consolidation, with particular attention paid to any maintenance holes;		
b.	estimates of the bearing capacity and stability of the foundation which demonstrate that the allowable bearing capacity will not be exceeded, with particular attention paid to any maintenance holes;	D&O Appendix 3-B	
C.	estimates of the potential for bottom heave or blow-out due to hydrostatic or gas pressures;	D&O Appendix 3-B	
d.	evidence that the foundation is capable of providing adequate support for operating and construction equipment;	D&O Appendix 3-B	
e.		D&O Appendix 3-B	
f)	A description of construction and installation procedures. If a compacted clayey liner is proposed, include details regarding the control of compaction water content, lift thickness, equipment to be used, scarification between lifts, limits on clod size, removal of stones, and procedures to avoid desiccation of the clayey liner. Liner test sections should be constructed to develop and confirm	D&O Appendix 4-B	
g)	construction procedures. A description of the inspection, monitoring, sampling and testing methods and frequencies to be employed to assure that the foundation and, where present, liner(s) meet the design	D&O Appendix 4-B	
h)	A description of any soil additives that are proposed, the concentrations to be added and the methods that will be used to mix and spread the material.	N/A	
н.	Geomembrane Liner Design (Guideline Table 6b, p. 40)		
a)	A description of the proposed geomembrane (type, thickness, texture, etc.).	D&O Dwg. 8 and Appendix 4-B	
b)	The design requirements and technical specifications for the geomembrane (e.g. thickness, density, melt index, carbon black dispersion, tensile properties, tear resistance, puncture resistance, stress crack resistance, Oxidative Induction Time (both initial OIT and OIT after oven aging at 85 degrees C for 90 days), and ultraviolet resistance).	D&O Appendix 4-B	
c)	Requirements for delivery, storage, installation and sampling of the geomembrane.	D&O Appendix 4-B	
d)	Calculations of the physical stress, including those due to:	See below	
a.	differential settlement of the foundation soils;	D&O Appendix 3-B	

	and Operations Report Preparation		
#	Description	Location Where Item Is Covered	
b.	strain requirements at the anchor trench; and	D&O Appendix 3-B	
C.	strain requirements over long, steep side slopes.	N/A (no long steep slopes)	
e)	A statement on the chemical compatibility of the liner, (other than a	D&O Section 4 & 6	
	high density polyethylene (HDPE) liner) and the leachate, and cite the basis for the statement.		
f)	A description of how the short-term stresses such as equipment	D&O Section 4.4, Appendix 4-B and 4-C	
.,	traffic during installation and thermal effects during construction and		
	operation will be taken into account. The liner must be able to		
	withstand the stresses resulting from application of the protection		
g)	layer placed between the liner and the leachate collection system. A demonstration that there will be adequate friction between the	See below	
9/	components of the liner system so that slippage and sloughing does		
	not occur on the slopes of the facility. Specifically, using design		
	equations, evaluate:		
a.	the ability of the geomembrane to support its own weight on the side slopes;	D&O Appendix 3-B	
b.	the ability of the geomembrane to withstand down-drag during and	N/A (no manholes proposed within landfill)	
C.	after waste placement; the suitability of the anchorage configuration for the geomembrane;	D&O Appendix 3-B	
U.	and		
d.	the stability of any protection layer above the geomembrane.	D&O Appendix 3-B	
h)	Installation specifications, including details regarding:	See below	
a.	visual inspection of the suitability of the subgrade;	D&O Appendix 4-B	
b.	methods of dealing with thermal expansion and contraction that will prevent impairment of the geomembrane's service life;	D&O Appendix 4-B	
C.	methods of protecting the geomembrane during shipping, storage	D&O Appendix 4-B	
d.	and handling; deployment of the geomembranes at the construction site (include a	D&O Appendix 4-B	
<u>.</u>	panel layout plan), seam preparation, seaming methods, seaming		
	temperature constraints;		
e.	Procedures to be adopted to prevent desiccation of the underlying	D&O Appendix 4-B	
	compacted clayey liner during and subsequent to the placement of the geomembrane.		
i)	Inspection activities, including both non-destructive and destructive	See below	
ĺ.	quality control field testing of sheets and seams during installation of		
	the geomembrane. Describe how the following will be taken into		
a.	account: ambient temperature at which seams are made;	D&O Appendix 4-B	
b.	relative humidity;	D&O Appendix 4-B	
р. С.	control of panel uplift by wind;	D&O Appendix 4-B	
d.	wrinkles;	D&O Appendix 4-B	
e.	effects of cloud cover and direct sunlight on geomembrane	D&O Appendix 4-B	
С.	temperature;		
f.	water content of the subsurface beneath the geomembrane;	D&O Appendix 4-B	
g.	supporting surface on which the seam is bonded;	D&O Appendix 4-B	
h.	skill of the seaming crew;	D&O Appendix 4-B	
i.	quality and consistency of the chemical or welding material;	D&O Appendix 4-B	
j.	proper preparation of the liner surfaces to be joined; and	D&O Appendix 4-B	
k.	the cleanliness of the seam interface (e.g., amount of airborne dust).	D&O Appendix 4-B	
j)	A specification for liner strength and the calculations defining the minimum strength requirement considering:	See below	
a.	internal and external pressure gradients;	D&O Section 4.4, Appendix 4-B	
b.	stresses resulting from settlement, compression or uplift;	D&O Section 4.4, Appendix 4-B	
с.	climatic conditions;	D&O Section 4.4, Appendix 4-B	
d.	installation stresses; and	D&O Section 4.4, Appendix 4-B	
e.	operating stresses.	D&O Section 4.4, Appendix 4-B	
е.	operanny suesses.		

	and Operations Report	
#	Description	Location Where Item Is Covered
k)	A specification for the geomembrane protection layer that will be	D&O Appendix 4-B and 4-C
	placed between the geomembrane and the leachate collection	
<u> </u>	system, including the method of placement.	N1/A
Ι.	GCL Design (Guideline Table 6c, p. 43)	N/A
a)	A description of the proposed GCL including sufficient data to	
	evaluate the engineering properties of the GCL. This should include	
	data relating to Atterberg limits, organic carbon content, mineralogy,	
	shear strength, hydraulic conductivity and hydrated thickness under field stress conditions (based on tests with apermeant with a	
	chemical composition similar to the expected landfill leachate). The	
	hydraulic conductivity tests supporting the design hydraulic	
	conductivity must have been conducted on samples hydrated to	
	simulate expected field hydration and permeated with a sufficient	
	number of pore volumes of permeant such that either (a) the	
	concentration of the parameter in the effluent chemistry exceeded	
	90% of that in the influent, or (b) it exceeds the number of pore	
	volumes that could reasonably pass through the GCL during the	
	contaminating life span of the landfill (whichever is less). The report	
	should also clearly indicate other parameters used by the designer	
	(e.g., diffusion coefficients, partitioning coefficients [Koc], effective porosity, any other parameter used in the design or analysis) and	
	provide relevant data and/or references (i.e., for similar conditions)	
	supporting the choice of these parameters.	
b)	A description of construction and installation procedures. Identify	
	how the GCL will be hydrated in the field and provide installation	
	specifications including details regarding:	
a.	visual inspection of the suitability of the subgrade;	
b.	methods of protecting the GCL during shipping, storage and	
	handling; and	
С.	deployment of the GCL at the construction site (include a panel	
	layoutplan), seam preparation, seaming methods. Indicate how	
	opening of seams(due to movement as overlaying layers are placed)	
	will be avoided.	
c)	A description of the inspection, sampling and testing methods and	
	frequencies to be employed to assure that the GCL meets the design	
-1)	requirements.	
d)	Demonstrate that there will be adequate shear strength both within the GCL and between the GCL and other components of the liner	
	system so that slippage and sloughing does not occur on the slopes	
	of the facility.	
J.	Leachate Collection System (Guideline Table 6d, p. 44)	
a)	A description of the proposed leachate collection system, including	D&O Section 4.4.3.8, 4.4.3.14 , 4.5 and 6, Drawing 6 to 8,
a)	estimated leachate flows, drainage layer design, any pipe network	Table 6-2
	and the leachate removal system.	
b)	Design specifications, calculations and descriptions of design and	See below
	operational measures that demonstrate that the leachate collection	
	system either meets the requirements of Schedules 1 and 2 or will	
	provide the service life and leachate head control assumed in the	
	assessment of groundwater impact for a site specific design by	
	addressing:	
a.	the gradation (nominal diameter, uniformity coefficient, silt content),	D&O Section 4.4, 6, Appendix 4-B and 6-C, Drawing 6 to 8.
	drainage path length, thickness normal to leachate drainage, surface	
	grades of the landfill base, leachate compatibility, biological/chemical	
	clogging potential and hydraulic conductivity of the granular drainage materials;	
b.	the long-term transmissivity under final loads, biological/chemical	D&O Section 4.4, Appendix 4-D and 6-C
D.	clogging potential and leachate compatibility of any geosynthetic	
	drainage layers;	
c.	the geotextile or graded granular filter/separator between the waste	D&O Section 4.4, Appendix 4-B
J. J.	and the drainage medium; and	
		1

-	and Operations Report	
#	Description	Location Where Item Is Covered
d.	the material, internal diameter, wall thickness, perforation size and location and spacing, flow capacity, structural capacity (wall crushing, pipe deflection, critical buckling pressure), access for cleaning, and the inspection and cleaning schedule of any collection pipes;y addressing.	D&O Section 4.4.3.8 and 4.4.3.14, Appendix 4-D, Dwg. 8
c)	A demonstration that the side slopes of the leachate collection system will be stable. Specifically, using design equations, evaluate:	See below
a.	the stability of the granular drainage materials on the underlying soil or geomembrane;	D&O Appendix 3-B
b.	the stability between the components of any geosynthetic drainage layer (geotextiles, geonets) and between the geosynthetic drainage layer and the underlying soil or geomembrane;	D&O Appendix 3-B
C.	the ability of any geosynthetic drainage layer to support its own weight on the side slopes;	D&O Appendix 3-B
d.	the ability of any geosynthetic drainage layer to withstand down-drag during and after waste placement;	
e.	the suitability of the anchorage configuration for the geosynthetic drainage layer; and the stability of any filter/separator layer above the geosynthetic drainage layer.	D&O Appendix 3-B, Dwg 8
d)	Installation specifications, including details regarding:	See below
a.	equipment used in granular drainage layer placement;	D&O Appendix 4-B and 4-C
b.	methods to control granular drainage layer thickness;	D&O Appendix 4-B
C.	bedding depth for any collection pipes;	D&O Dwg. 8
d.	method of joining collection pipes;	D&O Section 4.4
e.	method of placement and seaming, if any, of geosynthetic drainage layers;	N/A
f.	method of placement of any filter/separator layer above the drainage layer.	D&O Section 4.4.3.9 and 4.4.3.15, Appendix 4-B
К.	Construction Quality Control and Assurance (Guideline Table 6e, p. 45)	
a)	the foundation	D&O Appendix 4-B
b)	compacted clayey liners	D&O Appendix 4-B
c)	geosynthetic clay liners	N/A
d)	avoiding desiccation of the compacted clayey liner prior to placement of waste over each part of the liner system	D&O Appendix 4-B
e)	geomembrane liners	D&O Appendix 4-B
f)	protection layers for geomembrane liners	D&O Appendix 4-B
g)	leachate collection systems	D&O Appendix 4-B
h)	filter/separator layers for leachate collection systems	D&O Appendix 4-B
L.	Quality Control Officer Responsibilities (Guideline Table 6f, p. 45) no direct impact on content/format of D and O	N/A
М.	Leachate Disposal (Guideline Table 7, p. 46)	
a)	The handling, treatment and discharge of leachate directly to a water body such that the plans, specifications and descriptions provide a level of detail sufficient to demonstrate the feasibility of obtaining approval under the Ontario Water Resources Act; or	N/A (no discharge to surface water; pretreatment and discharge to Ottawa sewer system)
	The handling, treatment and discharge of leachate into an existing sanitary sewer, sewage works or system approved under the Ontario Water Resources Act, including:	
	works;	D&O Section 6.1
	the transportation or piping of leachate to the sanitary sewer or sewage works;	D&O Dwg. 3 and Figure 4-2
	the acceptance criteria for discharge to the sanitary sewer, if any, and the sewage works;	D&O Section 6.1
d.	an assessment of the impact on the sanitary sewer, if any, the sewage works, the effluent discharge and sewage residue from the sewage works, and the receiving waterbody based on the expected quality and quantity of leachate to be discharged;	D&O Section 6.1
e.	any treatment required prior to acceptance of the leachate; and	D&O Section 6.1.4

I	and Operations Report	
#	Description	Location Where Item Is Covered
f.	the written agreement of the owner of the sanitary sewer, if any, and	D&O Section 6.1
	the sewage works for acceptance of the leachate.	
Ν.	Leachate Contingency Plans (Regulation Section 12, Guideline p. 48)	
a)	A description of the contingency measures, including the collection of	
		EMP Section 7.4
	collection system fails or if leachate otherwise leaves the waste fill	
	zone in a quantity greater than expected or with a quality worse than	
b)	expected. A statement of the maximum allowable concentrations for	WECA aroundwater and surface water maximum allowable
b)	contaminants in the ground water at any point on any adjacent	WESA - groundwater and surface water maximum allowable concentration limits are included in the EMP (Sections 3.2.3 and
	property and in any surface water feature on the site.	4.2.3, respectively).
C)	A description of the ground water monitoring stations to be used to	WESA - description of groundwater and surface water
0)	identify potential increases in contaminant concentrations in the	monitoring programs are included in EMP (Sections 3.0 and
	ground water beneath the site and predict potential increases at the	4.0, respectively).
	property boundary and in any surface water feature on the site	
	before any increases occur.	
d)	A discussion of the basis on which the monitoring stations referred to	
	in paragraph 3 will be brought into service, indicating that stations	place. The EMP notes that monitoring wells surrounding the
	near the waste fill area will be brought into service not later than the	new landfill will need to be installed. The wells will be brought
	date that placement of the waste begins.	into service before any waste is placed.
e)	A description of the trigger criteria for initiating investigative activities	WESA - Trigger criteria are provided in EMP (Sections 3.2.3
	into the cause of an increase in contaminant concentrations in	and 4.2.3; data evaluation methods in Sections 7.1 and 7.2).
	ground water and in any surface water feature on the site, indicating	
	that the criteria relate to the magnitude of the increase in	
	contaminant concentrations or the magnitude of the rate of increase in contaminant concentrations.	
0.	Leachate Contingencies (Guideline Table 8, p. 50)	WESA - Contingency plans for groundwater and surface water
		impacted by leachate are included in the EMP (Section 7.4.1
		and 7.4.2, respectively).
a)	The construction of purge wells or other system into the waste or	
	within the buffer area to collect leachate or contaminated	
	groundwater, such that the impact on adjacent properties will be in	
	accordance with the Ministry's Reasonable Use Guideline (1994), or to control leachate mounding within the site. The handling,	
	treatment and disposal of the collected leachate or groundwater	
	should be described.	
b)	Where purge wells are the method of leachate removal, the	
	contingency plan should provide calculations of the number of wells	
	likely to be required, the expected well spacing, the level of leachate	
	mound control that can be realistically expected, and the potential	
	impact on groundwater levels and uses. For leachate removal from within the waste, and in the absence of data, the hydraulic	
	conductivity of the waste should be based on $k = 1 \times 10^{-6}$ m/s for	
	waste depths of 10 m or less, $k = 1 \times 10-7$ m/s for waste depths of	
	10 - 30 m, and k = 1 x 10-8 m/s for waste depths of 30 - 50 m. The	
	landfill proponent should develop and support values for waste	
	depths exceeding 50 m. The provision of an alternative water supply to adjacent and any	
c)	other properties in the vicinity of the site that may be affected by the	
	release of leachate into the groundwater in an amount in excess of	
	the amount defined for the site in accordance with the Ministry's	
	Reasonable Use Guideline (1994) or by the contingency plan	
	(e.g.reduction in groundwater levels).	
d)	Any other works or activities to protect human health and the	
	environment that may be appropriate based on the design and	
	hydrogeologic setting of the site.	
Ρ.	Surface Water Controls (Guideline Table 9 p. 51)	
a)	A site drainage plan showing the drainage of surface water at the	D&O Dwg. 2, 3 and 4, Figure 4-1 to 4-13 and 8-1
	site before the site is established, during operation of the site, and following site closure.	

	and Operations Report Preparation						
#	Description	Location Where Item Is Covered					
b)	Plans, specifications and descriptions of the design features, control facilities and operational procedures to isolate, contain, convey, control and/or treat the surface water on and off site prior to its discharge to the receiving watercourse(s). The plans, specifications and descriptions should consider the following surface water flows	See below					
a.	Clean Surface Water: off-site surface water flows that have been separated from landfilling site operations by means of diversions, berms, interceptor channels, etc.;	D&O Section 8, Dwg. 2 to 4, Figure 8-1 and 8-2					
b.	Non-Contaminated Storm Water: on-site runoff originating from nonoperating areas, that does not contact landfill waste, leachate or wastewater, but may originate from parking and loading areas, buildings, stockpiles, etc.; and	D&O Section 8, Dwg. 2 to 4					
C.	Potentially Contaminated Storm Water: on-site runoff originating from landfilling areas, material and waste storage areas, and areas designed for the collection, storage or treatment of leachate;	D&O Section 8, Dwg. 2-4, 9 and 10, Figure 8-1 to 8-3, Appendix 8-C					
c)	The design and location of any surface water control facilities, such as berms, swales, ditches, control ponds or other facilities for the control of the quality and quantity of surface water from the site. The design should be in accordance with the following:	See below					
a.	the design of surface water control facilities should be based on accepted methodologies, calculations and analytical tools including, where appropriate, hydrologic modelling (single event and/or continuous simulation), hydraulic modelling and water quality modelling using accepted computer models;	D&O Section 8, Appendix 8-A, 8-B, Table 8-1 to 8-4, Dwg. 4, 9 and 10, Figure 8-3					
b.	the design of external diversion channels, ditches and conveyance structures should be sized to accommodate the peak flow generated from the higher of the 100-year design storm or the prevailing Regional Storm Event (e.g., Hurricane Hazel, Timmins or other historically observed maximum event);	N/A (no major drainage work off site)					
C.	the design of all internal drainage ditches, storm sewers and conveyance structures should be sized to accommodate the peak flow generated from a 25-year design storm. In addition, a continuous overland flow route and/or ditch drainage system should be provided and sized to convey the peak flow generated from the higher of the 100-year design storm or the prevailing Regional Storm Event	D&O Section 8, Dwg. 4 and 8 to 10					
d)	The design and location of any sedimentation ponds to remove sediment from any surface water control facilities constructed at the site. The design should be inaccordance with the following:	See below					
a.	· · · ·	D&O Section 8, Dwg. 4, 9 and 10, Appendix 8-A					
b.	the design of any storm water management facilities for the purpose of surface water quantity control (i.e., peak flow reduction) of non contaminated storm water should be designed to temporarily store the runoff volume generated from controlling all storm events up to the higher of the 24-hour, 100-year design storm or the prevailing Regional Storm event, at or below the existing condition (i.e., pre- landfill) peak flows, such that there is no appreciable change in the potential for flooding and/or erosion in the watercourses receiving surface water discharges from the landfilling site.	D&O Section 8, Appendix 8-B					
e)	The design and location of any temporary or permanent erosion and sediment control facilities or measures for the site, including for any surface water control, treatment and discharge facilities and for any areas in which construction/operation activities are taking place.	BMPP Surface Water, Sediment and Erosion Control (SWSEC)					
f)	The design and location of any overflow control facilities for the site to safely convey storm water flows in excess of the specified design storm; and	D&O Section 8, Appendix 8-B, Dwg. 4					

	and Operations Report Preparation						
#	Description	Location Where Item Is Covered					
g)	A description of the operation, inspection and maintenance	D&O Section 7.16, 8, Appendix 8-C and BMPP (SWSEC)					
	requirements for any surface water control, treatment and discharge						
	facilities, including erosion and sediment control facilities.						
Q.	Landfill Gas Assessment (Guideline Table 10 ,p. 54)						
a)	An assessment of the potential for landfill gas migration below land surface including:	WESA - EMP discusses the monitoring program for subsurface gas (Section 5.0), and provides a trigger mechanism (Section 7.3) and contingency plan (Section 7.4.3). Assessment of the potential for landfill gas migration is covered in Section 5.6 of the D&O.					
a.	background concentrations of methane gas and any existing						
	potential sources of methane gas generation other than the waste;						
b.	the potential for generation of methane gas by the waste;						
C.	the potential for migration of landfill gas below land surface to						
	adjacent or other off-site properties, or into buildings or enclosed						
	structures located on-site or off-site; and						
d.	the potential for migration of landfill gas into and within any buried						
b .)	utility or service lines.						
b)	Monitoring of landfill gas migration is not normally required where the assessment shows that there is no significant potential for methane gas to migrate below land surface to adjacent or other off-site properties, or into buildings or enclosed structures located on-site or off-site, in concentrations in excess of those specified in Subsection (2) of the Regulation.	WESA - a monitoring program for landfill gas migration is included in the EMP (Section 5.0).					
c)	Where methane gas is expected to be generated at the site, the	See below					
0)	report should include the following for any buildings or enclosed						
	structures which may be impacted by the methane gas:						
a.	the provision of methane gas monitoring devices, with detection alarms, for any occupied building located on site and confined space entry protocols for other buildings or enclosed structures that are accessible by any person; and	D&O Section 5.6,7.9 and 7.10.					
b.	a general description of the safety precautions to be taken for methane gas for any building or enclosed structure located on site which contains electrical equipment or any potential source of ignition.	D&O Section 7.9					
d)	Where monitoring of landfill gas migration is to be carried out, the report should include, at a minimum, the design of the monitoring devices, the monitoring locations, frequency and period of monitoring, and the parameters to be analyzed, including the concentration of methane gas and the gas pressure within the monitoring devices.	WESA - The locations, frequency, and parameters for landfill gas migration monitoring are included in the EMP (Section 5.0). The EMP includes the design of the monitoring devices, and gas concentration as a monitoring parameter.					
e)	contingency plan to control landfill gas migration below land surface to be implemented in the event methane gas migrates from the waste fill area at concentrations in excess of those specified in Subsection (2) of the Regulation including:	WESA - Landfill gas migration contingency plan provided in EMP (Section 7.4.3)					
a.	a conceptual design of the control facilities;						
b.	an impact response plan describing the activities and timing of activities to be carried out in the event of an increase in methane gas concentrations within the buffer area, off site, or within buildings or enclosed structures which may be in excess of those specified in Subsection (2) of the Regulation; and						
C.	where the monitoring program indicates the contingency plan needs to be implemented, the owner must notify the Director of the need to implement the contingency plan, prepare detailed plans, specifications and descriptions for the design, operation and maintenance of the contingency plan, and implement the contingency plan.						
R.	Factors Affecting Atmospheric and Landfill Gas (Guideline Table 11, p. 57) – no direct impact on content/format of D & O	N/A					
S.	Landfill Gas Collection System (Guideline Table 12, p. 58)						
a)	Plans, specifications and descriptions of the design of the landfill gas	See helow					
ч)	collection system, including:						

#		and Operations Report Description	Location Where Item Is Covered		
a.		spatial design of the collection system including collector orientation	D&O Section 5, Appendix 5-B, Figure 5-2 and 5-3, Dwg. 7		
		(i.e.vertical wells or horizontal trenches), layout and spacing, depth(s) of placement within the landfill and radius of capture zone;			
b.		design of the collection pipes including size, material, perforations, granular bedding/envelope, and provisions for stress relief and settlement;	D&O Section 5, Figure 5-2 and 5-3, Dwg. 7		
C.		design of header and transmission pipes including size, material, slope, valving, access chambers, condensate control, seepage protection, protection from freezing, bedding and provisions for stress relief and settlement; and	D&O Section 5, Figure 4-2, 5-2 to 5-7		
d.		condensate drainage, storage and disposal.	D&O Section 5, Figure 5-2 and 5-4		
b)		Plans, specifications and descriptions of the design of the facilities for landfill gas burning, treatment or utilization, including:	See below		
a.		a description of the landfill gas extraction equipment (i.e. blower) and the design of any moisture removal and gas treatment system;			
b.		the design, performance characteristics and operational controls for any flare system including:	D&O Section 5.5.5 (existing system)		
		the type and design of the flare device;	See above		
		design combustion temperature and residence time;	See above		
		the destruction efficiency of volatile organic compounds;	See above		
	iv)	operational control systems such as temperature and combustion air control, flame failure detection, automatic ignition system and flame arrester;	See above		
C.		a description of any utilization system for collected landfill gas.	D&O Section 5.5.6 (existing system)		
c)		Plans, specifications and descriptions of the operation, monitoring and maintenance procedures for the landfill gas system, including;	See below		
a.		phasing/timing of system installation, start up and operation – particularly with respect to integration with overall landfill operation and maximizing landfill gas control;	D&O Section 4.7, Figures 4-1 to 4-13		
b.		inspection frequencies and maintenance/replacement procedures for system equipment;			
с.		monitoring of landfill gas flow rates and concentrations; and	D&O Section 5.6, 7.16.9		
d.		contingency provisions in the event of unexpected component failures.	D&O Section 7.16.7		
т.		Operation and Maintenance Report Requirements (Guideline Table 13, p. 62)			
a)		Acceptable and unacceptable waste types, estimated annual quantities, maximum daily rate of fill, operating days per week and hours of operation.	D&O Section 2.3, 7.4 and 7.6.1		
b)		Signage posted at site entrance indicating hours and days of operation, acceptable and unacceptable wastes, operating authority, Ministry approval number, telephone number for emergencies and additional information.	D&O Section 7.12		
c)		Site supervision and security.	D&O Section 4.3.1 and 7.1		
d)		Procedures for acceptance of incoming waste, including identification of waste requiring special handling or unacceptable waste.			
e)		Cover material to be used, sources of cover material, the procedures for acceptance of imported cover material, the procedures for the stockpiling of cover material prior to use, the location and maximum size of any stockpiles, and the minimum number of days supply of cover material to be maintained.			
f)		Waste disposal equipment and procedures for waste handling, deposit, compaction and covering.	D&O Section 4.6 and 7.15, Table 7-1		
g)		Coordination and phasing of site development and operation.	D&O Section 4.7, Figure 4-1 to 4-13		
h)		Procedures during site development for the protection of site vegetation that is to be preserved.	BMP Biology		
i)		Operation, inspection and maintenance of any control, treatment and disposal facilities for leachate, groundwater, surface water and landfill gas.	D&O Section 6.1.1, 7.16.12, 7.16.13, Appendix 8-C, BMPP (SWSEC)		

щ	and Operations Report Preparation						
#	Description	Location Where Item Is Covered					
j)	Operation, inspection and maintenance of any monitoring facilities for leachate, groundwater, surface water and landfill gas.	WESA - EMP Report					
k)	Management, treatment and disposal procedures for any collected leachate, groundwater, surface water and landfill gas.	D&O Section 4,5,6, 7.17.12, 7.17.13, Appendix 8-C					
I)	Procedures to protect any liner system from damage during waste disposal operations.	D&O Section 4.4 & 4.6.3					
m)	surface water and landfill gas from damage during waste disposal operations.	D&O Section 4.4 & 4.6.3					
n)	Procedures to protect any monitoring facilities for leachate, groundwater, surface water and landfill gas from damage during waste disposal operations.	WESA - EMP Report					
o)	Any procedures intended to alter or control the contaminating life span of the site.	N/A					
p)	Procedures intended to maintain or extend the service life of any engineered facility.	Refer to O & M Manuals					
q)	Procedures to minimize, including potential remedial measures for, noise, odour, dust, leachate seeps, vehicle mud tracking off-site, litter, birds, vectors and vermin.	D&O Section 7.11, 7.16, 7.18 and 9.1.2, BMPP for noise, odour and dust					
r)	A response plan for fire and other emergencies.	D&O Section 7.20					
s)	A complaint response plan describing actions to be taken in response to complaints from the public or others concerning site activities, including the actions to be taken to identify the activity causing the complaint and minimize future occurrences.	D&O Section 7.19					
t)	Record keeping and reporting.	Various BMPP reports					
u)	A public communications plan.	N/A					
V)	Trigger criteria and procedures to implement, operate and maintain the contingency plans for leachate and landfill gas in the event the primary design of the site is inadequate.	WESA - Trigger criteria (Sections 3.2.3 and 4.2.3), data evaluation methods (Sections 7.1 to 7.3) and contingency plans (Section 7.4) are included in EMP.					
w)	Site closure procedures.	D&O Section 4.8					
x)	Post-closure maintenance, monitoring and reporting; and	D&O Section 4.8.1					
у)	Financial assurance provisions for a privately owned site.	FA Report					
U.	Site Preparation Report (Guideline Table 14, p.69) - listed for reference only, no direct impact on content/format of D & O	D&O Appendix 4-B					
a)	Hydrogeologic conditions found during excavation or drilling activities carried out for the new waste fill area, and for new control or monitoring facilities.						
b)	The construction and testing of any liner system.						
c)	The construction of any other new control, treatment, disposal or monitoring facilities for leachate, groundwater, surface water and landfill gas.						
d)	The construction of any other works or facilities, including screening, landscaping, onsite roads, fencing and other structures.						
V.	Operations – Record Keeping Requirements (Guideline Table 15, p.70) - listed for reference only, no direct impact on content/format of D & O	N/A					
a)	The type, date and time of arrival, hauler, and quantity (by weight where weighscales are provided at the site, otherwise by estimated volume as received) of all waste and cover material received at the site.						
b)	The area of the site in which waste disposal operations are taking place.						
c)	Any complaints from the public received by the owner and a description of the action taken by the owner in response.						
d)	A calculation of the total quantity (by weight where weigh scales are provided at the site, otherwise by estimated volume as received) of waste received at the site during each operating day and each operating week.						
e)	The amount of any leachate removed, or treated and discharged from the site, for sites with leachate collection.						

ш		t Preparation			
#	Description	Location Where Item Is Covered			
ť)	Record of litter collection activities and the application of dust				
g)	suppressants. A record of the inspections of any control, treatment, disposal or				
9)	monitoring facilities.				
h)	A description of any out-of-service period of any control, treatment,				
,	disposal or monitoring facilities, the reasons for the loss of service,				
	and action taken to restore and maintain service.				
W.	Annual Operations Report (Guideline Table 16, p.71) - listed for	N/A			
	reference only, no direct impact on content/format of D & O				
a)	The results and an interpretive analysis of the results of all leachate,				
	groundwater, surface water and landfill gas monitoring, including an				
b)	assessment of the need to amend the monitoring programs. An assessment of the operation and performance of all engineered				
0)	facilities, the need to amend the design or operation of the site, and				
	the adequacy of and need to implement the contingency plans.				
c)	Site plans showing the existing contours of the site; areas of				
- /	landfilling operation during the reporting period; areas of intended				
	operation during the next reporting period; areas of excavation				
	during the reporting period; the progress of final cover, vegetative				
	cover, and any intermediate cover application; previously existing				
	site facilities; facilities installed during the reporting period; and site				
d)	preparations and facilities planned for installation during the next	l			
d)	Calculations of the volume of waste, daily and intermediate cover, and final cover deposited or placed at the site during the reporting				
	period and a calculation of the total volume of site capacity used				
	during the reporting period.				
e)	A calculation of the remaining capacity of the site and an estimate of				
0)	the remaining site life.				
f)	A summary of the quantity of any leachate removed, or treated and				
<i>`</i>	discharged, from the site during each operating week, for sites with				
	leachate collection.				
g)	A summary of the weekly, maximum daily and total annual quantity				
	(by weight where weigh scales are provided at the site, otherwise by				
	estimated volume as received) of waste received at the site.				
h)	A summary of any public complaints received by the owner and the				
:)	responses made. A discussion of any operational problems encountered at the site				
1)	and corrective action taken; and				
i)	An update of the cost estimate for financial assurance and the				
,,	amount which has been provided to the Director, in the case of a				
	privately-owned site.				
Х.	Public Liaison Committee Structure/Function (Guideline Table	N/A			
	17, p. 73) – no direct impact on content/format of D & O				
Υ.	Surface Water Monitoring (Guideline Table 18, p.75) - listed for	WESA - Surface water monitoring program presented in EMP			
	reference only, no direct impact on content/format of D & O	(Section 4.0). Draft has been reviewed by MOE Technical Support Section.			
a)	Representative samples of surface water being discharged from the				
	site and of anyreceiving surface water features, including upstream				
	control locations, should be:				
а.	obtained semi-annually in spring and fall and be analyzed for the				
	parameters listed in column 3 of Schedule 5 and for other parameters of concern identified in the surface water assessment;				
	and				
b.	obtained on two other occasions per year and be analyzed for the				
Б.	parameters listed in column 4 of Schedule 5.				
b)	Where appropriate based on the surface water assessment,				
,	monitoring to assess the composition and any changes to the				
	benthic community present in any surface water features receiving a				
	discharge from the site.				
c)	The results and assessment of the results of the surface water				
	monitoring should be included in an annual report.				
d)	The results and assessment referred to in Subsection (c) should				
	include:	l			

	and Operations Report Preparation						
#	Description	Location Where Item Is Covered					
a.	an assessment of the sampling results relative to the predicted results and expected impacts on surface water at the site and on any						
	waterbody that may be affected by leachate or sediment from the						
	site;						
b.	an assessment of the need to amend the frequency or location of						
	sampling and analytical parameters; and						
C.	an assessment of the need to amend the design or operational						
	procedures or the site, or to implement the leachate contingency						
-)	plan.						
e)	The parameters and frequency for monitoring may be amended where the owner prepares a report showing alternative provisions						
	are appropriate based on conditions such as geographic location,						
	climatic conditions and the type of waste to be deposited at the site.						
Z.	Ground Water Monitoring (Guideline Table 19, p.77) - listed for	WESA - Groundwater monitoring program presented in EMP					
	reference only, no direct impact on content/format of D & O	(Section 3.0). Draft has been reviewed by MOE Technical					
		Support Section.					
a)	Representative samples of groundwater within the site should be:						
a.	obtained annually from groundwater monitoring facilities and be						
b.	analyzed for the parameters listed in column 1 of Schedule 5; and obtained on two other occasions per year from groundwater						
5.	monitoring facilities and be analyzed for the parameters listed in						
	column 2 of Schedule 5.						
b)	Water levels (prior to the removal of any water) from the						
	groundwater monitoring facilities referred to in Subsection (a) should						
	be measured and recorded during each monitoring event.						
c)	Where requested by property owners or occupants, representative						
	samples of groundwater should be obtained from domestic wells located within 500 m of the waste fill area of the site at a frequency						
	of one sample per well per year and these groundwater samples						
	should be analyzed for the parameters listed in column 2 of						
	Schedule 5.						
d)	The results of analysis of a water sample collected under Subsection						
	(c) should be provided to the owner or occupant of the property with						
	the domestic well from which the sample was obtained, within 90 days of obtaining the sample.						
e)	The results of analysis of all water samples collected in the						
- /	groundwater monitoring program, together with an assessment of						
	these results should be included in an annual report.						
f)	The results and assessment referred to in Subsection (e) should						
	include:						
a.	an assessment of the condition of groundwater monitoring facilities;						
b.	an assessment of background groundwater levels and chemistry in each of the principal hydrostratigraphic units identified in the						
	hydrogeological assessment and sampled in the course of						
	groundwater monitoring program;						
C.	an assessment of the sampling results relative to the predicted						
	results and expected impacts on groundwater at the site and						
	adjacent to the site;						
d.	an assessment of the need to amend the frequency or location of						
e.	sampling and the analytical parameters; and an assessment of the need to amend the design or operational						
0.	procedures for the site, or to implement the leachate contingency						
	plan.						
g)	The parameters and frequency for monitoring may be amended						
	where the owner prepares a report showing alternative provisions						
	are appropriate based on conditions such as geographic location,						
	climatic conditions and the type of waste to be deposited at the site.						
AA.	Leachate Monitoring (Guideline Table 20, p.78) listed for reference only, no direct impact on content/format of D & O	WESA - Leachate monitoring program presented in EMP (Section 6.0). Draft has been reviewed by MOE Technical					
	neighbor only. No unect initiatt of content/format of D & O	Coolion 0.0/. Dialt has been reviewed by MOL Technical					

	and Operations Report Preparation							
#								
a)	Representative samples of leachate taken from within the waste or							
	from the primary and/or secondary leachate collection system should be:							
a.	obtained annually and be analyzed for the parameters listed in							
<u> </u>	column 1 of Schedule 5; and							
b.	obtained on two other occasions per year and be analyzed for the							
	parameters listed in column 2 of Schedule 5.							
b)	Representative measurements taken on three occasions per year of the depth of leachate mounding in the deposited waste and any							
	leachate collection system.							
c)	The results and an assessment of the results of the leachate							
·	monitoring should be included in an annual report.							
d)	The results and assessment referred to in Subsection (c) should							
	include:							
a.	an assessment of the results of the leachate quality analyses and determinations of the depth of leachate mounding relative to the							
	predicted results;							
b.	an assessment of the need to amend the frequency or location of							
	sampling and analytical parameters, and the frequency, location or							
	procedures for determining the depth of leachate mounding; and							
C.	an assessment of the need to amend the design or operational procedures for the site, or to implement the leachate contingency							
	plan.							
e)	The parameters and frequency for monitoring may be amended							
	where the owner prepares a report showing alternative provisions							
	are appropriate based on conditions such as geographic location,							
	climatic conditions and the type of waste to be deposited at the site.							
BB.	Daily Cover Reporting Requirements (Guideline Table 21, p. 80)	D&O Section 4.6.4.1						
a)	A description of the material.	See above						
b)	The quantity to be applied at any one time and the procedures for its application.	See above						
c)	An assessment of the benefits and limitations of the cover material in	See above						
- /	controlling litter, odour, dust, vectors and vermin under the expected							
	range of weather and operational conditions.							
d)	The location and maximum quantity of material to be stockpiled on	See above						
e)	the site at any one time prior to its use as cover material, and An assessment of any measures necessary to control dust, surface	See above						
с)	water runoff and leachate from the stockpiling of the material							
CC.	Closure Report (Guideline Table 22, p. 84)- listed for reference	N/A						
	only, no direct impact on content/format of D & O							
a)	A plan showing site appearance after closure.							
b)	A description of the proposed end use of the site.							
c)	Descriptions of the procedures for closure of the site, including:							
a.	advance notification of the public of the landfill closure;							
b.	posting of a sign at the site entrance indicating the landfill is closed							
C.	and identifying any alternative waste disposal arrangements; completion, inspection and maintenance of the final cover and							
0.	landscaping;							
d.	site security;							
e.	removal of unnecessary structures, buildings and facilities; and							
f.	final construction of any control, treatment, disposal and monitoring							
	facilities for leachate, groundwater, surface water and landfill gas.							
d)	Descriptions of the procedures for post-closure care of the site,							
a.	including: operation, inspection and maintenance of the control, treatment,							
α.	disposal and monitoring facilities for leachate, groundwater, surface							
	water and landfill gas;							
b.	record keeping and reporting; and							
C.	complaint contact and response procedures.							
e)	An assessment of the adequacy of and need to implement the							
	contingency plans for leachate and methane gas.							

	#	Description	Location Where Item Is Covered
f)		An updated estimate of the contaminating life span, based on the	
		results of the monitoring to date.	
g))	An update of the cost estimate for financial assurance and the	
		amount which has been provided to the Director, in the case of a	
		privately-owned site.	
	DD.	Post Closure Report (Guideline Table 23, p. 85) - no direct	N/A
		impact on content/format of D & O	

Attachment 8

(EA Commitments, Approval Requirements and EA Conditions, Status of Completion Table)

Category	EA Report Section	EA Commitment	EA Commitment Fulfillment	EA Condition No.	EA Condition	Status of Completion
Consultation	Section 7.9	Plans, and End-Use/Closure Plan for the undertaking and other WCEC facilities prior to submission of the formal applications to the MOE. Consultation will include opportunities to review ECAs, EMP(s) and BMPs,	Document consultation undertaken regarding the ECAs, EMP(s) and BMPs, Contingency Plans, and End- Use/Closure Plan for the undertaking and other WCEC facilities.		2. The proponent shall post the draft Groundwater and Surface Water Monitoring Plan on the proponent's website for the undertaking for a period of thirty days for review and public comment. The proponent shall take any comments received into consideration prior to finalizing the plan. Once finalized, the proponent shall implement the plan.	received were taken into consideration in the finalizations of the draft Plans. Comments and Responses regarding the draft Plans are provided in the Record of Consultation for the ECA application.
		(e.g., Open Houses). Post final documents submitted to the MOE on the project website, including the results of the consultation process. Stakeholders will include the Carp Landfill Community Liaison Committee (CLCLC), the City of Ottawa, government agencies, and the public.			Plan shall be made publicly available on the proponent's website for the undertaking.	publicly available on the project website.
	Section 7.9		Document consultation undertaken regarding the ECAs, EMP(s) and BMPs, Contingency Plans, and End- Use/Closure Plan for the undertaking and other WCEC facilities.	8	2. The proponent shall post the draft Groundwater and Surface Water Monitoring Plan on the proponent's website for the undertaking for a period of thirty days for review and public comment. The proponent shall take any comments received into consideration prior to finalizing the plan. Once finalized, the proponent shall implement the plan.	Draft EMP(s) and BMPs, including Groundwater and Surface Water Monitoring Plans, were posted on our project website for a period of 30 days from May 15, 2014 to June 16, 2014 for First Nations and Aboriginal communities to review and comment. Comments that were received were taken into consideration in the finalizations of the draft Plans. Comments and Responses regarding the draft Plans are provided in the Record of Consultation for the ECA application.
		website). Conduct consultation events on draft documents, if needed (e.g., meetings). Post final documents submitted to the MOE on the project website, including the results of the consultation process.			3. Any monitoring reports prepared by the proponent in accordance with the Groundwater and Surface Water Monitoring Plan shall be made publicly available on the proponent's website for the undertaking.	3
	3.1 of the current CofA (A461002) for	Continue to facilitate the ongoing function of the CLCLC as stated in Condition 3.1 of the current CofA (A461002) for the Ottawa WMF.	Continue participation on the CLCLC.	. 6	1. The proponent shall establish and maintain a CLC in respect of the undertaking to provide a forum for public concerns to be raised and for mitigation measures to be discussed where appropriate.	The WCEC PLC was formed in April 2014.
					2. If there is no interest from the public in continuing the existing CLC or establishing and participating in a new CLC (once sufficient notice has been given) it may be discontinued. If discontinued the proponent shall publish a notice at least annually inviting expressions of interest in establishing or re-establishing the CLC.	The existing CLCLC was retained to focus on the closed Carp Landfill and the new WCEC PLC was formed to focus on the new WCEC facilities.
					 If continued or re-established, the CLC shall serve as the focal point for dissemination, review and exchange of information and monitoring results relevant to the undertaking. If there is interest in forming a CLC and members are willing 	The existing CLCLC was retained to focus on the closed Carp Landfill and the new WCEC PLC was formed to focus upon the new WCEC facilities. The WCEC PLC was formed in April 2014.
					 to serve, the CLC shall be established. 5. The proponent shall provide administrative support for the CLC including, at minimum: a) providing CLC meeting space; b) preparing and publishing meeting notices; c) recording minutes of each meeting; and, d) preparing an annual report to be submitted as part of Compliance Reporting as required by Condition 5. 	Administrative support has been provided to the WCEC PLC as noted in the EA condition.
EMPs and BMPs	Chapter 6	Prepare EMP(s) and BMPs following approval of the undertaking by the Minister of the Environment and prior to construction. The EMP(s) and BMPs will include a description of proposed mitigation measures, monitoring requirements, and commitments, as stated in Chapter 6 of the WCEC EA Report. The EMP(s) and BMPs will ensure these mitigation measures, monitoring requirements, and commitments are implemented during construction, operation, closure, and post-closure of the undertaking and other WCEC facilities.	Confirm EMP(s) and BMPs) have been prepared prior to the start of construction.			EMP(s) and BMPs were prepared and are included in the ECA application.

Category	EA Report Section	EA Commitment	EA Commitment Fulfillment	EA Condition No.	EA Condition
Contingency Plans	Chapter 6	Prepare Contingency Plans related to groundwater, surface water, and atmosphere (i.e., odour, dust, noise, landfill gas) following approval of the undertaking by the Minister of the Environment and prior to construction. The Contingency Plans will include a description of proposed contingency measures, monitoring requirements, and commitments, as stated in Chapter 6 of the WCEC EA Report. The Contingency Plans will ensure these contingency measures, monitoring requirements, and commitments are implemented, if required, during construction, operation, closure, and post-closure of the undertaking and other WCEC facilities.	Confirm Contingency Plans related to groundwater, surface water, and atmosphere (i.e., odour, dust, noise, landfill gas) have been prepared prior to start of construction.		
Site Engineering	Chapter 6	Retain environmental and/or engineering personnel (WM or WM agent) to oversee the implementation of commitments made in the EA during construction of the undertaking and other WCEC facilities.	Confirm that environmental and/or engineering personnel have been retained prior to the start of construction.		
Property Value Protection	Chapter 6	Finalize and implement a Property Value Protection (PVP) Plan and provide notification (i.e., letter) to property owners to which the Plan applies.	Confirm the PVP Plan is finalized and in place prior to the start of construction.	10	 The proponent shall implement the Property Value Pr Plan as described in Appendix D – Community Commitre the environmental assessment. Should additional studies required for future approvals the Environmental Protection Act indicate potential impaties the value of a property; the proponent shall identify the potentially impacted properties by municipal address in the Property Value Protection Plan and shall notify the owner properties.
Community Host Agreement	Chapter 8	Finalize and implement a Community Host Agreement with the City of Ottawa.	Confirm the Community Host Agreement is finalized and in place prior to the start of construction.		
Odour Enforcement Mechanism	Chapter 6	Ensure the principles of the Odour Enforcement Mechanism, as outlined in Appendix D in the ToR, are implemented.	Confirm these measures have been transferred into the EMP.		
Permits and Approvals	Chapter 6	Acquire all necessary permits and/or approvals for the undertaking and other WCEC facilities.	Confirm all permits and/or approvals are obtained prior to the start of construction.		
Atmospheric (Particulate Matter) Detailed Impact Assessment	SD #5 – Atmospheric (Particulate Matter) DIA, Section 6.2	 Develop a Dust BMP Plan that may include the following mitigation measures: Watering suppressants on interim cover areas, unpaved roads, construction surfaces, and ancillary sources (e.g., WTPF and crushing activities). Water for these activities may come from the following sources: surface water from on-site SWM ponds, City of Ottawa water, and trucked water; Limiting traffic movement on exposed surface areas; Progressive vegetation seeding on surface areas; Watering and sweeping on all internal haul routes; Paving of primary on-site haul routes; and Speed control of on-site traffic. 	Confirm mitigation measures have been included in the Dust BMP Plan.		
	SD #5 – Atmospheric (Particulate Matter) DIA, Section 8.1.1	 Develop a Dust BMP Plan that may include the following monitoring measures: Annual particulate monitoring (e.g., between May and September at 3 locations along the northeast, northwest, and southwest of the landfill property line); Routine walkover surveys; Record keeping of watering suppressants application; and Record keeping of waste and construction activity locations. 	Confirm monitoring measures have been included in the Dust BMP Plan.		
	SD #5 – Atmospheric (Particulate Matter) DIA, Section 8.2	Increase the stack height of leachate evaporator stack to a minimum of 22 m above grade, should the contingency leachate management system be installed.	Confirm mitigation measure has been implemented, should the contingency leachate management system be installed.		
Atmospheric (Combustion Emissions) Detailed Impact Assessment	SD #5 – Atmospheric (Combustion Haul Route) DIA, Section 6.2	 Develop a Combustion Haul Route BMP Plan that may include the following mitigation measures: Minimize on-site idling of vehicles; Routinely monitor for waste vehicles arriving to the site in unfit or unmaintained condition; and Properly plan for waste vehicles staging and sequencing on the site. 	Confirm mitigation measures have been included in the Combustion Haul Route BMP Plan.		

	Status of Completion
	Contingency Plans were prepared and are included in the ECA application.
	We will ensure that the appropriate personnel are available to do required oversight during construction of the undertaking and other WCEC facilities.
lue Protection mmitments of	The Property Value Protection (PVP) Plan, as provided in approved EA, is included with ECA application, following completion of ECA studies.
orovals under l impacts to y the ss in the e owners of the	No potentially impacted properties were identified following completion of the ECA studies.
	We will finalize and implement a Community Host Agreement with the City of Ottawa.
	The principles of the Odour Enforcement Mechanism have been transferred into the EMP as provided in the ECA application.
	We will confirm that all permits and/or approvals are obtained prior to the start of construction.
	We have included mitigation measures in the Dust BMP in the ECA application.
	We have included monitoring measures in the Dust BMP in the ECA application.
	We will implement the mitigation measure should the contingency leachate management system be installed.
	We have included mitigation measures in the Combustion Haul Route BMP in the ECA application.

Category	EA Report Section	EA Commitment	EA Commitment Fulfillment	EA Condition No.	EA Condition
Atmospheric (Odour) Detailed Impact	SD #5 – Atmospheric (Odour) DIA, Section	5	Confirm mitigation measures have been included in the Odour and Landfill Cas BMP Plan		
Assessment	6.4, Section 8.1.2, and Section 8.2	 Conduct regular maintenance of the landfill cap and interim cover areas to reduce the cracks and fissures due to erosion and settling; Conduct regular maintenance of landfill gas collection and control system to prevent leaks in the system and ensure proper function of the system; Progressively install the LFG collection system to improve collection efficiency; Flare or otherwise combust all collected LFG; Record meteorological conditions (i.e., wind) on a continuous basis and consider the conditions before undertaking highly odourous activities to minimize off-site odour impacts (i.e., excavation of previously filled areas); Minimize area of the landfill working face to reduce LFG and odour releases to the atmosphere; Cover landfill working face daily with appropriate cover materials (soil) to 	Landfill Gas BMP Plan.		
		 For a stand with the stand with the stand sta			
		leachate gases to the landfill gas collection system.			
Atmospheric (Landfill Gas (VOC)) Detailed Impact epaAssessment	SD #5 – Atmospheric (Odour) DIA, Section 8.1.1 SD #5 – Atmospheric (Landfill Gas (VOC)) DIA, Section 7.2	 Develop an Odour and Landfill Gas BMP Plan that may include the following monitoring measures: Total hydrocarbon or hydrogen sulphide surface surveys of both the existing and proposed alternative landfill mounds, as well as leachate collection manholes, to identify any cracks, fissures, or other hot-spots for escaping landfill gas; Continuous monitoring for temperature and flow on the landfill gas flares and the landfill gas-to-energy engine-generator sets to ensure proper operation; Volatile organic compound and hydrogen sulphide ambient air quality monitoring programs to continue to track annual emissions and identify increases in emissions over time; and Source testing of the SBR and leachate evaporator for source validation. Develop an Odour and Landfill Gas BMP Plan that may include the following mitigation measures: Progressively install the LFG collection system to improve collection efficiency; 	Confirm monitoring measures have been included in the Odour and Landfill Gas BMP Plan.		
epaAssessment		 Flare or otherwise combust all collected LFG; Place the leachate collection system under negative pressure and send the leachate gases to the landfill gas collection system. Minimize area of the landfill working face to reduce LFG and odour releases to the atmosphere; and Cover landfill working face daily with appropriate cover materials (soil) to filter odour and apply odour suppressant chemicals, if necessary. 			
	SD #5 – Atmospheric (Landfill Gas (VOC)) DIA, Section 9.1.1	 Develop an Odour and Landfill Gas BMP Plan that may include the following monitoring measures: Total hydrocarbon or hydrogen sulphide surface surveys of both the existing and proposed alternative landfill mounds, as well as leachate collection manholes, to identify any cracks, fissures, or other hot-spots for escaping landfill gas; Continuous monitoring for temperature and flow on the landfill gas flares and the landfill gas-to-energy engine-generator sets to ensure proper operation; Volatile organic compound and hydrogen sulphide ambient air quality monitoring programs to continue to track annual emissions and identify increases in emissions over time; and Source testing of the SBR and leachate evaporator for source validation. 	Confirm monitoring measures have been included in the Odour and Landfill Gas BMP Plan.		

Status of Completion
We have included mitigation measures in the Odour and Landfill Gas BMP in the ECA application.
 We have included monitoring measures in the Odour and
Landfill Gas BMP in the ECA application.
We have included mitigation measures in the Odour and Landfill Gas BMP in the ECA application.
We have included monitoring measures in the Odour and
Landfill Gas BMP in the ECA application.

Category	EA Report Section	EA Commitment	EA Commitment Fulfillment	EA Condition No.	EA Condition
Atmospheric – Air Quality	Chapter 8	Approval Requirement: An approval is required for the air emissions from the preferred undertaking and associated sources including landfill gas collection and management system, the leachate pretreatment system and the leachate evaporator system (should it be installed).			
Atmospheric (Noise) Detailed Impact Assessment	SD #5 – Atmospheric (Noise) DIA, Section 6.2	 Develop a Noise BMP Plan that may include the following mitigation measures: All WM trucks use standard (factory) silencers and be kept in good working order; All WM equipment will comply with MOE noise guideline for site equipment; Enclose stationary sources in buildings, where practical; The existing landfill height of approximately 172 mASL will act as a berm for receptors to the south; The finished height of the preferred landfill footprint of approximately 156 mASL will act as a berm for receptors to the north for sources travelling on the main access road; Construction and landfill operations are conducted between the hours of 7:00 am and 7:00 pm to reduce potential impacts; and Ancillary facilities, with the exception of the gas-to-energy plant, will operate between 7:00 am and 7:00 pm based on consultation with WM. 			
	SD #5 – Atmospheric (Noise) DIA, Section 8.1.1	 Develop a Noise BMP Plan that may include the following monitoring measures: 24-hr monitoring for impulsive noise sources at NR4 (292 Moonstone Road South) and NR8 (112 Willowlea Road). 	Confirm monitoring measures have been included in the Noise BMP Plan.		
Atmospheric – Noise	Chapter 8	Approval Requirement: In conjunction with the approvals for Air, emissions from stationary noise sources will be addressed as part of the Air ECA. Some mobile noise sources such as crushing equipment for C&D processing may also require a separate ECA. Other landfill operations equipment and potential on-site noise sources, including intermittent, will be addressed under the ECA for the site overall.			
Geology & Hydrogeology Detailed Impact Assessment	<i>Hydrogeology DIA,</i> <i>Section 6.2.1, Section</i> <i>6.2.2 and Section 8.2</i>	 Develop a Groundwater BMP Plan that may include the following mitigation measures for groundwater quality: Establish concentration limits on the effluent infiltrating to the groundwater from the unlined pond stages; Prepare an implementation plan for the design and construction of a purge well system (or other approved mitigation measure) in order to control leachate migration from the existing unlined (closed) landfill, if necessary. The implementation plan will be prepared and submitted to MOE concurrent with the application for approval under the Environmental Protection Act for the new WCEC landfill facility; Install a series of purge wells along the northern toe of the existing landfill, between the existing unlined (closed) landfill and the new landfill in accordance with the implementation plan; and Continue to operate and maintain the existing purge well system on the existing unlined (closed) landfill site to ensure that groundwater quality impacts from former operations remain within the boundaries of the CAZs. The purge well system will continue to be operated until such time as it can be demonstrated that the system is no longer required in order to maintain groundwater impacts within the CAZs. 	Confirm mitigation measures have been included into the Groundwater BMP Plan.	8	 The proponent shall prepare and submit to the Region Director a draft Groundwater and Surface Water Monitor for review and comment prior to the commencement of construction of the undertaking. The Regional Director r require the proponent to amend the plan. The proponent shall post the draft Groundwater and S Water Monitoring Plan on the proponent's website for the undertaking for a period of thirty days for review and pub comment. The proponent shall take any comments rece consideration prior to finalizing the plan. Once finalized, proponent shall implement the plan.
	SD #5 – Geology and Hydrogeology DIA, Section 8.1.1	 Develop a Groundwater BMP Plan that may include the following monitoring measures for groundwater flow: Monitor groundwater flow on-site and within the site-vicinity by measuring water levels in monitoring wells; Monitor water levels in the SWM ponds; and Use the collected data to map and interpret the groundwater flow orientations. 	Confirm monitoring measures have been included into the Groundwater BMP Plan.	8	 The proponent shall prepare and submit to the Region Director a draft Groundwater and Surface Water Monitor for review and comment prior to the commencement of construction of the undertaking. The Regional Director n require the proponent to amend the plan. The proponent shall post the draft Groundwater and S Water Monitoring Plan on the proponent's website for the undertaking for a period of thirty days for review and pub comment. The proponent shall take any comments rece consideration prior to finalizing the plan. Once finalized, proponent shall implement the plan.

	Status of Completion
	Our ECA application includes air emission (odour and landfill gas) approval requirements from the preferred undertaking and associated sources.
	We have included mitigation measures in the Noise BMP in the ECA application.
	We have included monitoring measures in the Noise BMP in the ECA application.
	Our ECA application includes air emission (noise) approval requirements from the preferred undertaking and associated sources.
Regional Ionitoring Plan Int of ector may and Surface for the nd public s received into alized, the	We have included mitigation measures in the Groundwater BMP in the ECA application.
Regional Ionitoring Plan ent of ector may and Surface for the nd public is received into alized, the	We have included monitoring measures in the Groundwater BMP in the ECA application.

Category	EA Report Section	EA Commitment	EA Commitment Fulfillment	EA Condition No.	EA Condition	Status of Completion
	SD #5 – Geology and Hydrogeology DIA, Section 8.1.1 and Section 8.2	 Develop a Groundwater BMP Plan that may include the following monitoring measures for groundwater quality: Collect groundwater samples from selected monitoring wells located on-site and within the site-vicinity and analyze the samples for an appropriate site-specific indicator list; Collect effluent samples from the unlined stages of the SWM Ponds to measure water quality in effluent infiltrating to the groundwater table; Use the collected data to interpret groundwater quality conditions upgradient, between the landfill footprints, and downgradient from the new landfill facilities; and Continue to monitor the existing purge well system on the existing landfill site to ensure that groundwater quality impacts from the existing unlined landfill remain controlled by the existing purge well system and natural attenuation across the CAZ. The purge well system will continue to be operated until such time as it can be demonstrated that the system is no longer required in order to maintain groundwater impacts within the CAZs. 	Confirm monitoring measures have been included into the Groundwater BMP Plan.	8	 The proponent shall prepare and submit to the Regional Director a draft Groundwater and Surface Water Monitoring Plan for review and comment prior to the commencement of construction of the undertaking. The Regional Director may require the proponent to amend the plan. The proponent shall post the draft Groundwater and Surface Water Monitoring Plan on the proponent's website for the undertaking for a period of thirty days for review and public comment. The proponent shall take any comments received into consideration prior to finalizing the plan. Once finalized, the proponent shall implement the plan. 	
	SD #5 – Geology and Hydrogeology DIA, Section 8.1.1		Confirm this measure has been included in the EMP.			We have included reporting of monitoring results to MOE for review in an annual report in the EMP in the ECA application.
	SD #5 – Geology and Hydrogeology DIA, Section 8.1.1 and Section 8.2	An EMP for groundwater flow and quality monitoring will be developed as part of the application for approval under the Environmental Protection Act for the new WCEC landfill facility. Details of the groundwater monitoring program, including specific sampling locations, physical/chemical parameters, and sampling frequencies, as well as trigger/compliance locations and parameter concentrations, will be developed as part of the EMP for the proposed undertaking.	Confirm development of an EMP for groundwater flow and quality monitoring.	8	 The proponent shall prepare and submit to the Regional Director a draft Groundwater and Surface Water Monitoring Plan for review and comment prior to the commencement of construction of the undertaking. The Regional Director may require the proponent to amend the plan. The proponent shall post the draft Groundwater and Surface Water Monitoring Plan on the proponent's website for the undertaking for a period of thirty days for review and public comment. The proponent shall take any comments received into consideration prior to finalizing the plan. Once finalized, the proponent shall implement the plan. 	
	Chapter 8	Approval Requirement: Approval of an EMP: An EMP will be developed as part of the overall site ECA application for approval and be implemented through the ECA terms and conditions.				Our ECA application includes an EMP.
	Chapter 8	Approval Requirement: Permit to Take Water (Section 34 of the Ontario Water Resources Act): An amendment to the existing Permit to Take Water (PTTW) for the current landfill site will be required in order to install and operate the proposed new purge well system. The new wells would be specified as additional sources on the existing PTTW.				Our ECA application includes a Permit to Take Water (Section 34 of the Ontario Water Resources Act) approval application.
	Chapter 8	Approval Requirement: Industrial Sewage Works (Section 53 of the Ontario Water Resources Act): The collection of leachate, pretreatment of leachate, spray irrigation, and discharge of groundwater from the proposed SWM ponds will require approval under the Ontario Water Resources Act. These facilities will be required to meet all MOE design requirements outlined under "Design Guidelines for Sewage Works" (MOE, 2008) and the "Stormwater Management Planning and Design Manual" (MOE, 2003). Operations and monitoring requirements for all facilities would be specified in the terms and conditions of an ECA for the sewage works.				Our ECA application includes an Industrial Sewage Works (Section 53 of the Ontario Water Resources Act) approval application.
Surface Water Detailed Impact Assessment	SD #5 – Surface Wate DIA, Section 6.2 and Section 8.2	8	Confirm mitigation and monitoring measures have been included in the Surface Water BMP Plan.	8	1. The proponent shall prepare and submit to the Regional Director a draft Groundwater and Surface Water Monitoring Plan for review and comment prior to the commencement of construction of the undertaking. The Regional Director may require the proponent to amend the plan.	We have included an EMP and BMP(s) in the ECA application that includes Groundwater and Surface Water Monitoring Plans.
		 exposed soils and maximize length of overland flow through to points where stormwater is collected; Installation of swales and culverts, as required, to allow for surface flow to pass under the on-site roads; Construct two-stage SWM facilities to address surface water runoff from the site and emergency response to accidental leachate seeps or spills; Monitor inflow to SWM ponds regularly to identify emergency response situations, including leachate seeps and onsite spills; Implement emergency response actions, as required, when emergency response situations occur, including leachate seeps and onsite spills; and Monitor annual and periodic SWM pond inflow for parameters as identified by MOE in their surface water "assessment criteria" as it related to landfill sites. 			2. The proponent shall post the draft Groundwater and Surface Water Monitoring Plan on the proponent's website for the undertaking for a period of thirty days for review and public comment. The proponent shall take any comments received into consideration prior to finalizing the plan. Once finalized, the proponent shall implement the plan.	Draft EMP(s) and BMPs, including Groundwater and Surface Water Monitoring Plans, were posted on our project website for a period of 30 days from May 15, 2014 to June 16, 2014 for stakeholder review and comment. Comments that were received were taken into consideration in the finalizations of the draft Plans. Comments and Responses regarding the draft Plans are provided in the Record of Consultation for the ECA application.

Category	EA Report Section	EA Commitment	EA Commitment Fulfillment	EA Condition No.	EA Condition	Status of Completion
	SD #5 – Surface Water	Develop a Sediment and Erosion Control BMP Plan that may include the	Confirm mitigation and monitoring	8	1. The proponent shall prepare and submit to the Regional	We have included an EMP and BMP(s) in the ECA application
	DIA, Section 6.2	following mitigation and monitoring measures:	measures have been included in the	Ŭ	Director a draft Groundwater and Surface Water Monitoring Plan	
		 Installation of silt fences, blankets, and/or berms around construction areas 	EMP.		for review and comment prior to the commencement of	
		to prevent sediment runoff and erosion;			construction of the undertaking. The Regional Director may	
		 Retention of sediment and erosion control measures around construction 			require the proponent to amend the plan.	
		areas until stabilized:			2. The proponent shall post the draft Groundwater and Surface	Draft EMP(s) and BMPs, including Groundwater and Surface
		• Storage and stabilization of stockpiled materials to prevent sediment runoff;			Water Monitoring Plan on the proponent's website for the	Water Monitoring Plans, were posted on our project website for
		• Storage and refueling of equipment to prevent potential fuel, oil and grit runoff;			undertaking for a period of thirty days for review and public	a period of 30 days from May 15, 2014 to June 16, 2014 for
		Implementation of vehicle and equipment cleaning procedures to minimize			comment. The proponent shall take any comments received into	
		mud, dirt, and debris tracking along the access routes and areas where			consideration prior to finalizing the plan. Once finalized, the	received were taken into consideration in the finalizations of the
		sediment and control measures are not in place;			proponent shall implement the plan.	draft Plans. Comments and Responses regarding the draft
		 Monitoring of function and integrity of sediment and erosion control 				Plans are provided in the Record of Consultation for the ECA
		measures; and				application.
		 Restoration and re-vegetation of the site to provide sediment and erosion 				
		control, when conditions allow.				
	Chapter 8	Approval Requirement: As described in the third bullet in Section 9.3, the				Our ECA application includes a Permit to Take Water (Section
		proposed SWM ponds and related conveyance systems will require approval				34 of the Ontario Water Resources Act) approval application.
		as part of the ECA for the site. In addition to the PTTW requirements				
		described above, the PTTW should include the ability to take surface water				
		from the SWM ponds for on-site dust control (roads and stockpiles) and				
		potentially for irrigation of landscaping.				
Biology Detailed	SD #5 – Biology DIA,	Develop a Biology BMP Plan that may include the following mitigation	Confirm mitigation measures have			We have included mitigation measures in the Biology BMP in the
Impact Assessment	Section 7.2.2	measures related to clearing and grubbing activities:	been included in the Biology BMP			ECA application.
		 Minimization of removal of native vegetation; 	Plan.			
		 Minimization of impact to retained features; 				
		 Maintenance of water balance; and 				
		Avoidance of native soil disturbance.				
	SD #5 – Biology DIA,	Develop a Biology BMP Plan that may include the following mitigation	Confirm mitigation measures have			We have included mitigation measures in the Biology BMP in the
	Section 7.2.2	measures related to erosion and sediment control to prohibit sediment from	been included in the Biology BMP			ECA application.
		5	Plan.			
		 Minimization of soil mobilization; 				
		 Minimization of duration of soil exposure; 				
		Retention of existing vegetation, where feasible;				
		Maintenance of low runoff velocities; and				
		Retention of sediment as close to its source as possible.				
	SD #5 – Biology DIA,	Develop a Biology BMP Plan that may include the following mitigation	Confirm mitigation measures have			We have included mitigation measures in the Biology BMP in the
	Section 7.2.2	measures related to site grading:	been included in the Biology BMP			ECA application.
			Plan.			
		Creation of low gradients, where possible; and				
		Avoidance of release of fuel, chemicals, and other materials from				
		construction equipment and construction areas into natural areas and				
		watercourses during equipment maintenance activities and material				
	SD #F Dialogy DIA	management.	Confirm mitigation management have			We have included mitigation measures in the Dislamy DMD in the
	SD #5 – Biology DIA,	Develop a Biology BMP Plan that may include the following mitigation	Confirm mitigation measures have			We have included mitigation measures in the Biology BMP in the
	Section 7.2.3.1	measures related to edge management:	been included in the Biology BMP Plan.			ECA application.
		 Retention of a narrow zone where no root grubbing will occur (in order to stimulate suckering of cut trees); 	Plan.			
		Removal of hazard trees;				
		 Removal of hazard trees, Installation of edge plantings using appropriate native species; 				
		 Installation of temporary vegetation protection fencing at the edge of the 				
		clearing limits where the edge of a forest community is removed; and				
		 Restriction of tree removal to the working area, where possible. 				
	SD #5 – Biology DIA,	 Restriction of the removal to the working area, where possible. Develop a plan to address displacement of Bank Swallow colony, which may 	Confirm these measures have been	9	1. The proponent shall develop and implement a Bank Swallow	We have developed a Bank Swallow Mitigation, Compensation
	SD #5 – Biology DIA, Section 7.2.3.2 and	include relocation of colony to suitable sites within approximately 2 km of the	included in the EMP.	9	Mitigation, Compensation and Monitoring Plan in consultation	and Monitoring plan in consultation with Environment Canada
	Section 7.3.3	WCEC and/or creation of a suitable site at the WCEC (i.e., exposed earthen			with Environment Canada and the Ontario Ministry of Natural	and the Ontario Ministry of Natural Resources. The Plan is
	36010117.3.3	cliff).			Resources prior to the commencement of construction of the	included in the Biology BMP in the ECA application.
		(), (), (), (), (), (), (), (), (), (),			undertaking.	
					2. The Bank Swallow Mitigation, Compensation and Monitoring	We have included mitigation, compensation, and monitoring
					Plan shall include measures to mitigate impacts of the	measures in the Bank Swallow Mitigation, Compensation, and
					undertaking on the species, compensate for unavoidable	Monitoring Plan in the Biology BMP in the ECA application.
					adverse impacts and detail monitoring requirements.	

Category	EA Report Section	EA Commitment	EA Commitment Fulfillment	EA Condition No.	EA Condition	Status of Completion
	SD #5 – Biology DIA, Section 7.2.5.1 and Section 7.2.5.2	Develop a Compensation and Restoration Plan to offset removals of natural forest and wetland in the landfill footprint.	Confirm these measures have been included in the EMP.			Forest and wetland compensation and enhancement plans have been developed and are included in the Biology BMP in the ECA application.
	SD #5 – Biology DIA, Section 7.3.3	 Include in the EMP the following compensation measures identified in the Biology Detailed Impact Assessment: Create or enhance 4 ha of wetland habitat that is suitable for amphibian breeding at a location near the preferred landfill footprint that is yet to be determined; Create or restore forest habitat on lands owned by WM or at location near preferred landfill footprint that is yet to be determined; Create or restore old field habitat where possible on lands owned by WM; Establish some natural vegetation between preferred landfill footprint and William Mooney Road. 	Confirm these measures have been included in the EMP.			Forest and wetland compensation and enhancement plans have been developed and are included in the Biology BMP in the ECA application.
	SD #5 – Biology DIA, Section 8.1.1.4	 Develop a Biology BMP Plan that may include the following monitoring measures related to vegetation and wildlife: Monitoring of vegetation during clearing, planting and restoration; and Monitoring of wildlife during clearing, planting and restoration. 	Confirm monitoring measures have been included in the Biology BMP Plan.			We have included monitoring measures in the Biology BMP in the ECA application.
	SD #5 – Biology DIA, Section 8.2	Contact OMNR should species at risk (e.g., Eastern Meadowlark and Barn Swallow) be encountered on-site and adhere to applicable permits, acts, and guidelines in detailed design and construction.	Confirm these measures have been included in the EMP.	9	presence of Barn Swallow habitat on-site in consultation with the Ontario Ministry of Natural Resources.	presence of nesting barn swallows. The species was not found on-site and the MNR was notified in November 2013. The survey is documented in the Biology BMP in the ECA application.
					4. Should Barn Swallow habitat be present, the proponent shall comply with the requirements of the Endangered Species Act, 2007.	We conducted on-site surveys in September 2013 for the presence of nesting barn swallows. The species was not found on-site and the MNR was notified in November 2013. The survey is documented in the Biology BMP in the ECA application.
					5. The proponent shall conduct on-site surveys to determine the presence of Flooded Jellyskin habitat on-site in consultation with the Ontario Ministry of Natural Resources prior to the commencement of construction of the undertaking.	We conducted on-site surveys in September 2013 for the presence of Flodded Jellyskin habitat. The species was not found on-site and the MNR was notified in November 2013. The survey is documented in the Biology BMP in the ECA application.
					6. Should the presence of Flooded Jellyskin habitat be present, the proponent shall comply with the requirements of the Endangered Species Act, 2007.	We conducted on-site surveys in September 2013 for the presence of Flodded Jellyskin habitat. The species was not found on-site and the MNR was notified in November 2013. The survey is documented in the Biology BMP in the ECA application.
	Chapter 8	Approval Requirement: Tree clearing should adhere to applicable City of Ottawa By-Laws or approval requirements. A Wildlife Scientific Collectors Permit is required through MNR to capture, contain and release amphibians from one site to another, if required. No other approvals or permits are identified as required, assuming that the Endangered Species Act does not apply.				We will confirm that all permits and/or approvals are obtained prior to the start of construction.
Archaeology Detailed Impact Assessment	SD #5 – Archaeology DIA, Section 5	Confirm in writing from MTC - Heritage Operations Unit that all archaeological licensing and technical review requirements have been satisfied prior to any excavation activities within the study area.	Confirm these measures have been included in the EMP.			We received written approval from the MTC – Heritage Operations Unit on May 15, 2013.
	SD #5 – Archaeology DIA, Section 6	Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48 (1) of the Ontario <i>Heritage Act</i> . The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological field work, in compliance with Section 48 (1) of the Ontario <i>Heritage Act</i> .	Confirm these measures have been included in the EMP.			In the event previously undocumented archaeological resources are discovered, We will cease work and engage a licensed archaeologist to conduct the necessary field work.
	SD #5 – Archaeology DIA, Section 6	The <i>Cemeteries Act</i> , R.S.O. 1990 c. C.4 and the <i>Funeral, Burial and Cremation Services Act</i> , 2002, S.O. 2002, c.33 (when proclaimed in force) require that any person discovering human remains must notify the police or coroner and the Registrar of Cemeteries at the Ministry of Consumer Services.	Confirm these measures have been included in the EMP.			In the event human remains are discovered, We will notify the appropriate authorities.
	Chapter 8	Approval Requirement: Should any archaeological sites be uncovered during subsequent works, work must cease and an archaeological investigation must be done by a licensed archaeologist as per Section 48 (1) of the Ontario Heritage Act. Additional Stage 2 work may be required depending upon the specific location of the public drop off area.	Confirm these measures have been included in the EMP.			In the event previously undocumented archaeological resources are discovered, WM will cease work and engage a licensed archaeologist to conduct the necessary field work.

Category	EA Report Section	EA Commitment	EA Commitment Fulfillment	EA Condition No.	EA Condition	Status of Completion
Cultural Heritage Detailed Impact Assessment	SD #5 – Cultural Heritage DIA, Section 8.1.1 and Section 8.2	CLU5 – 569 William Mooney Road CLU6 – 2485 Carp Road	Confirm these measures have been included in the EMP.			A landscape concept plan has been prepared as part of the approved zoning by-law amendment for the WCEC, including visual buffering.
Transportation Detailed Impact Assessment	SD #5 – Transportation DIA, Section 6.3	Design and construct a northbound left turn lane in consultation with the City of Ottawa. Approval Requirement: The design and implementation of the proposed left hand turn lane from Carp Road into WCEC will require approval and agreement from the City of Ottawa.	Confirm implementation of transportation mitigation measures.			 We consulted with the City of Ottawa on the design of a northbound left turn lane from Carp Road to the WCEC. The final design and implementation of the northbound left turn lane from Carp Road to the WCEC will be the subject of a Road Modification Agreement with the City of Ottawa.
	SD #5 – Transportation DIA, Section 8.1.1	 Maintain communication with the City of Ottawa regarding transportation-related matters, including: Collision experience and collision-prone areas; and Existing and future level of service and travel demand forecasting. 	Confirm implementation of transportation monitoring measures.			We will communicate with the City of Ottawa regarding transportation-related matters.
	Chapter 8	Approval Requirement: The proposed site access location, which is further north along Carp Road than the existing site entrance, is beyond 395 m from the controlled access highway (Highway 417) and hence an approval of the MTO is not required under the Public Transportation and Highway Improvement Act. Site signage that is visible from the controlled access highway may require approval, subject to determination of MTO.				No site signage is anticipated to be visible from Highway 417.
Integrated Gull Management Plan	SD #5 – Integrated Gull Management Plan, Section 5	 Finalize the Integrated Gull Management Plan outlined in the Detailed Impact Assessment stage. This Plan may include the following measures related to gull control: Design suggestions to minimize attractiveness of the site to gulls; Deterrent methods to minimize gull habituation (i.e., lethal enforcement); Contingency methods, if monitoring indicates these are necessary; and Staff training and communications (i.e., Tier 1 and Tier 2). 	Confirm these measures have been included in the EMP.			We have included gull control measures in the IGMP in the ECA application.
	SD #5 – Integrated Gull Management Plan, Section 6.1	 Finalize the Integrated Gull Management Plan outlined in the Detailed Impact Assessment stage. This Plan may include the following measures related to the active tipping face: Minimization of tipping face area; Operation of only one tipping face at a time; Diligent application of daily cover to the active face; Minimization of waste protrusion through daily cover; and Monitoring of daily cover operations. 	Confirm these measures have been included in the EMP.			We have included gull control measures in the IGMP in the ECA application.
	SD #5 – Integrated Gull Management Plan, Section 6.3, Section 6.4, and Section 6.5;	 Finalize the Integrated Gull Management Plan outlined in the Detailed Impact Assessment stage. This Plan may include the following measures related to site operations: Implementation of litter management procedures and techniques to reduce the presence of exposed waste that may attract gulls to the site; Placement of gull-resting deterrents on existing or new structures (i.e., needle or porcupine wire); and Communication with Carp Airport personnel. 	Confirm these measures have been included in the EMP.			We have included gull control measures in the IGMP in the ECA application.
	SD #5 – Integrated Gull Management Plan, Section 6.2, Section 9.1, and Section 10	 Finalize the Integrated Gull Management Plan outlined in the Detailed Impact Assessment stage. This Plan may include the following monitoring measures related to gull control: Ensuring all activities are undertaken following standard practices and safety protocols (i.e., staff training and communication, permit acquisition, deterrent implementation); Monitoring of gull activity and control (i.e., gull numbers, gull attraction, deterrent measures, firearm use details, lethal enforcement details); and Documentation of gull activity and control (i.e., wildlife management log, annual summary, meeting with Carp Airport personnel). 	Confirm these measures have been included in the EMP.			We have included gull control measures in the IGMP in the ECA application.

Category	EA Report Section	EA Commitment	EA Commitment Fulfillment	EA Condition No.	EA Condition
Land Use Detailed Impact Assessment	SD #5 – Land Use DIA, Section 8.1.1	 Monitor land use applications, plans, and/or policies, including Official Plan, Zoning By-Law, Community Development Plans, plans of subdivision, site plans, and OMB decisions, for the following: To determine any potential effects on the undertaking and other WCEC facilities; To provide comments to the City of Ottawa, as necessary, in relation to the above; and To take further action, as required, in relation to the above, including appeals. 	Confirm monitoring of land use applications, plans, and/or policies.		
	Chapter 8	Approval Requirement: The existing landfill site is identified as a Waste Disposal Site in the City of Ottawa Official Plan. The Waste Disposal Site symbol does not determine the boundaries of the landfill site; the physical extent of a landfill site is to be regulated through the Zoning By-law. An amendment to the Official Plan is not required. Any expansion to an existing designated Solid Waste Disposal Site requires a zoning by-law amendment, which is subject to the same criteria applied to the establishment of new landfill sites (City of Ottawa Official Plan, Section 3.8, Policy 4). A segment of the On-Site Study Area is currently designated Sand and Gravel Resource Area. However, the mineral resources on the lands designated Sand and Gravel Resource Area have been fully extracted. Policy 14 of Section 3.7.4 states that where sand and gravel mineral resources have been fully extracted on a property, the property may be used for other purposes. WM understands the City will not require amendment of the Official Plan rather the Plan will be amended to accurately reflect the new use at the time of the next comprehensive Official Plan update or through general Official Plan amendment. However, in either scenario, Policy 14 imposes a number of requirements such as a technical study to demonstrate the resource has been exhausted, evidence that the license has been surrendered and any environmental issues have been addressed. Policy 15 states that lands that are predominantly surrounded by designations other than Agricultural Resource Area, the uses of General Rural Area will be permitted. Based on a review of Section 41 of the Planning Act, and the City of Ottawa Site Control By-law Amendment – A Zoning By-law Amendment is anticipated for the undertaking, for which the City of Ottawa may require a Community Information and Comment Session.			
Agriculture Detailed	SD #5 – Agriculture	Implement other BMPs, including Dust, Noise, Odour, and Surface Water, to	Confirm implementation of other		
Impact Assessment	DIA, Section 8.2	mitigate potential nuisance effects caused by the undertaking and other WCEC facilities in relation to the surrounding agricultural operations.	BMPs.		
Socio-Economic Detailed Impact Assessment	6.7.10	Implement other BMPs, including Biology and Compensation and Restoration Plan, and landscape/vegetation treatments to mitigate potential visual impacts caused by the undertaking and other WCEC facilities in relation to the surrounding areas (e.g., berms, rock outcroppings, and native grass, shrub, and tree species).	Confirm implementation of other BMPs, Compensation and Restoration Plan, and landscape/vegetation treatments.		
	8.1.1	Implement other BMPs, including Biology, Compensation and Restoration Plan, and landscape/vegetation treatments to monitor the effectiveness of the measures used to mitigate potential visual impacts caused by the undertaking and other WCEC facilities in relation to the surrounding areas (e.g., berms, rock outcroppings, and native grass, shrub, and tree species).	Confirm implementation of other BMPs, Compensation and Restoration Plan, and landscape/vegetation treatments.		
	SD #5 – Socio- Economic DIA, Section 6.7.10	Implement other BMPs, including Noise, Odour, and Landfill Gas, and transportation measures to mitigate potential socio-economic impacts caused by the undertaking and other WCEC facilities in relation to the surrounding areas.	Confirm implementation of other BMPs and transportation measures.		
	8.1.1	Implement other BMPs, including Noise, Odour, and Landfill Gas, and transportation measures to monitor the effectiveness of the measures used to mitigate potential socio-economic impacts caused by the undertaking and other WCEC facilities in relation to the surrounding areas.	Confirm implementation of other BMPs and transportation measures.		
	SD #5 – Socio- Economic DIA, Section 6.3	Implement Community Commitments from the ToR to create up to 75 jobs through the development of the undertaking and other WCEC facilities.	Confirm job creation through development of the undertaking and other WCEC facilities.		

Status of Completion
We will monitor land use applications, plans, and/or policies, including Official Plan, Zoning By-Law, Community Development Plans, plans of subdivision, site plans, and OMB decisions.
We obtained a zoning by-law amendment approval from the City of Ottawa on July 9, 2014. There were no appeals of the zoning by-law amendment approval to the Ontario Municipal Board (OMB).
We will confirm implementation of the BMPs, as necessary.
We will confirm implementation of the BMPs, Compensation and Restoration Plan, and landscape/vegetation treatments, as necessary.
We will confirm implementation of the BMPs, Compensation and Restoration Plan, and landscape/vegetation treatments, as necessary.
 We will confirm implementation of the BMPs and transportation measures, as necessary.
We will confirm implementation of the BMPs and transportation measures, as necessary.
We will confirm jobs creation through development of the undertaking and other WCEC facilities.

Category EA Report Section	EA Commitment	EA Commitment Fulfillment	EA Condition No.	EA Condition	Status of Completion
			3 (Public Record)	1. Where a document is required for the public record, the	Where a document is required for the public record, we will
				proponent shall provide two copies of the document to the	provide two copies of the document to the Director: a copy for
				Director: a copy for the public record file and a copy for staff use.	
				2. The EAB file number EA-02-08-02 shall be quoted on all	We will quote the EAB file number EA-02-08-02 shall be quoted
				documents submitted to the ministry pursuant to this Notice.	on all documents submitted to the ministry pursuant to this Notice.
				3. For every document submitted to the ministry, the proponent	For evety document submitted to the MOE, we will clearly
				shall clearly identify which condition the document is meant to fulfill	identify which condition the document is meant to fulfill.
				4. Documents may be provided electronically where appropriate.	We will provide documents electronically to the MOE and
				The ministry may request that the document be provided in hardcopy.	provide hardcopy, as requested.
			4 (Compliance	1. The proponent shall prepare and submit to the Director for the	This table is prepared and submitted to the MOE (Director) for
			Monitoring Program)	public record, an environmental assessment compliance monitoring program.	the public record as an Environmental Assessment compliance monitoring plan.
			i rogram)	2. The program shall be submitted to the Director within one year	81 81
				from the date of approval, or 60 days before the commencement of construction, whichever is earlier.	
				3. The program shall include monitoring of the proponent's	This table is submitted to the MOE (Director) in fulfillment of this
				implementation of the undertaking in accordance with the	requirement.
				environmental assessment and the conditions in this Notice with	
				respect to mitigation measures, public consultation, and	
				additional studies and work to be carried out. The program shall	
				also include monitoring of compliance with all commitments	
				made in the environmental assessment and the subsequent	
				review of the environmental assessment and the approval	
				process for the environmental assessment with respect to	
				mitigation measures, public consultation, and additional studies and work to be carried out.	
				4. The program must contain an implementation schedule.	This table is submitted to the MOE (Director) in fulfillment of this requirement.
				5. The Director may require the proponent to amend the	We will amend this table, as required by the MOE (Director).
				program. The program, as it may be amended by the Director, must be carried out by the proponent.	
				6. The proponent shall make the program documentation available to the ministry or its designate upon request in a timely	This table is submitted to the MOE (Director) in fulfillment of this requirement.
			- (2	manner when so requested by the ministry.	
			5 (Compliance	1. The proponent shall prepare an annual compliance report	We will prepare and annual update of this table in fulfillment of
			Reporting)	which describes the proponent's compliance with the conditions in this Notice and the results of the program.	this requirement and include it in our Annual Report for the WCEC that we submit to the MOE on or before March 31 of each year.
			1	2. The annual compliance report shall be submitted for the public	
				record on or before March 31 of each year, with the first report	this requirement and include it in our Annual Report for the
				being due in 2014, and shall cover all activities of the previous	WCEC that we submit to the MOE on or before March 31 of
				calendar year.	each year.
				3. The proponent shall submit annual compliance reports until all	We will prepare and annual update of this table in fulfillment of
				conditions are satisfied.	this requirement and include it in our Annual Report for the
					WCEC that we submit to the MOE on or before March 31 of
					each year until all conditions are satisfied.
				4. When all conditions have been satisfied, the proponent shall	When all conditions have been satisfied, we will indicate in the
				indicate in the annual compliance report that it is the final annual compliance report.	update.
			1	5. The proponent shall retain, either on site or in another location	
				approved by the Director, copies of the annual compliance reports for each reporting year and any associated documentation of compliance monitoring activities.	the MOE (Director), copies of the annual compliance reports for each reporting year and any associated documentation of compliance monitoring activities.
				6. The proponent shall make the compliance reports and	We will make the compliance reports and supporting
				supporting documentation available to the ministry or its designate upon request in a timely manner when requested to so	documentation available to the ministry or its designate upon
				by the ministry.	

Category	EA Report Section	EA Commitment	EA Commitment Fulfillment	EA Condition No.	EA Condition	Status of Completion
				, ·	respect to the undertaking. 2. The proponent shall submit the Complaint Protocol to the	A complaint management plan is included in the Design and Operations Report included in the ECA application. A complaint management plan is included in the Design and Operations Report included in the ECA application.
					3. The Director may require the proponent to amend the	We will amend the complaint management plan, as requested by the MOE (Director).
					4. The proponent shall submit the amended Complaint Protocol to the Director within the time period specified by the Director.	We will submit the amended complaint management plan to the MOE (Director) within the time period specified by the MOE (Director).
					5. The proponent shall implement the Complaint Protocol and any amendments to it.	We will implement the complaint management plan and any amendments to it.

Attachment 9

(List of Supporting Documents)

Waste ECA Reports

- 1. Development & Operations Report, Volume 1, West Carleton Environmental Centre, WSP Canada Inc., dated July 2014.
- 2. Development & Operations Report, Volume 2, West Carleton Environmental Centre, WSP Canada Inc., dated July 2014.

Environmental Monitoring Program Reports, WCEC (Items 2 to 4 Bound Together)

- 3. Environmental Monitoring Plan, Groundwater, Surface Water, Leachate and Subsurface Gas Components, West Carleton Environmental Centre, Ottawa, Ontario, WESA, a Division of BluMetric Environmental Inc., dated July 2014.
- 4. West Carleton Environmental Centre, Ambient Air Quality Monitoring Program, RWDI Air Inc., dated July 30, 2014.
- 5. West Carleton Environmental Centre, Noise Monitoring Program, RWDI Air Inc., dated July 30, 2014.

Best Management Practice Plan Reports, WCEC (Items 5 to 13 Bound Together)

- 6. Groundwater Best Management Practices Plan, West Carleton Environmental Centre, Ottawa, Ontario, WESA, a Division of BluMetric Environmental Inc., dated July 2014.
- 7. Best Management Practices Plan (Surface Water, Sediment & Erosion Control), West Carleton Environmental Centre, WSP Canada Inc., dated July 2014
- 8. West Carleton Environmental Centre, Biology Best Management Plan, AECOM Canada Limited, dated July 2014.
- 9. Integrated Gull Management Plan, Waste Management of Canada Corporation, West Carleton Environmental Centre, Beacon Environmental, dated August 2014.
- 10. Best Management Practice Plan (Dust), West Carleton Environmental Centre Landfill, RWDI Air Inc., dated July 30, 2014.
- 11. Best Management Practice Plan (Odour and LFG), West Carleton Environmental Centre, RWDI Air Inc., dated July 30, 2014.
- 12. Best Management Practice Plan (Combustion By-Products), West Carleton Environmental Centre, RWDI Air Inc., dated July 30, 2014.
- 13. Noise Best Management Practices Plan, West Carleton Environmental Centre, RWDI Air Inc., dated July 30, 2014.
- 14. Odour Enforcement Mechanism, Waste Management of Canada Corporation.
- Hydrogeologic and Surface Water Assessment Reports, WCEC (Items 14 and 15 Bound Together)
- 15. Hydrogeologic Assessment Report, Proposed West Carleton Environmental Centre Landfill, Ottawa, Ontario, WESA, a Division of BluMetric Environmental Inc., dated July 2014.
- 16. Surface Water Assessment Report for the West Carleton Environmental Centre Landfill, AECOM Canada Limited, dated July 2014.
- 17. Financial Assurance Report, West Carleton Environmental Centre, WSP Canada Inc, dated July 2014. (Confidential).

Air & Noise ECA Reports

- 18. Final Report, Emission Summary & Dispersion Modelling Report, RWDI Air Inc., dated July 30, 2014.
- 19. Final Report, Acoustic Assessment Report, RWDI Air Inc., dated July 30, 2014.

PTTW Reports

20. Application for Amendment to MOE Permit to Take Water (PTTW) 8737-7FZNB4, West Carleton Environmental Centre (WCEC), WSP Canada Inc., dated July 2014.

An electronic copy, in pdf format, of all of the above noted documents and ECA applications, including attachments, is provided on a separate disc included within the ECA Waste Application.