2018 ODOUR MANAGEMENT & MITIGATION MONITORING REPORT





Submitted By:

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1. Executive Summary

The Durham York Energy Centre (DYEC), respectfully submits the 2018 Annual Odour Management and Mitigation Monitoring Report (OMMMR) covering operations encompassing November 1, 2017 to October 31, 2018.

Under the Environmental Assessment Act – Notice to Proceed with Undertaking EA File No. 04-EA-02-08 (Section 18), as well as the multi-media Environmental Compliance Approval (ECA) number 7306-8FDKNX (Condition 8. (8)) issued by the Ministry of the Environment, Conservation and Parks (MECP), an Odour Management and Mitigation Plan (OMMP) was required prior to construction of the DYEC or by such other date as agreed to in writing by the Director. The OMMP became effective upon initial receipt of non-hazardous municipal solid waste on February 9th, 2015.

In addition, the preparation and approval of a Containment Test Protocol was required pursuant to ECA Condition 8. (7) prior to the receipt of waste at the DYEC. The Containment Test Protocol recognized that "as it is not practicable to measure air velocity or pressure within the tipping building, the smoke test was determined to provide visualization of the flow of combustion air, odours and dust, and hence demonstrate the design of DYEC to manage and mitigate odours from waste stored before combustion". The Containment Test Protocol was approved by the MECP on September 20th, 2014 and the DYEC was directed to conduct periodic inspections identified in the Containment Test Protocol which thus fulfills ECA Condition 8. (1)(b)(i) to undertake a test to measure the worst case scenario negative air pressure atmosphere throughout the Tipping Hall.

The OMMP requires the preparation and submission of an OMMMR to the MECP York Durham Regional Director every 12 months until such time that the Director notifies DYEC that the OMMMR is not required. The initial OMMMR was submitted on November 26th, 2015 and included the results of odour testing and modelling of potential impacts to sensitive receptors. The second and third submissions were on December 23rd, 2016 and November 24th, 2017 respectively. This OMMMR represents the fourth submittal. The scope of this OMMMR follows the activities enumerated by the OMMP and the Containment Test Protocol applicable to the control of odours:

- Normal Operations Odour Control.
- Inspection and Maintenance.
- Monitoring, Recording and Reporting.
- Shutdown or Disruption of Operations.
- Odour Complaint Response Procedure.

2. Normal Operations Odour Control

The application of good working practices and process control is of fundamental importance in eliminating and minimizing the quantities of odours formed on site and their subsequent release to the atmosphere. Containment and mitigation of odour at the source through standard operating procedures (SOP's) is proven and effective. The overall aim in the operation of the DYEC is to apply Best Management Practices at all stages of the waste treatment processes undertaken on site. Waste received for processing may include odourous substances. Potential odour emission sources may include truck transportation, handling and storage of waste during normal operations and thermal treatment of waste on site. The

following sections explain mitigation procedures for potential DYEC odour sources during normal operations.

2.1 Truck Transportation

The Regions of Durham and York have advanced waste management programs for source separation and diversion of waste from landfills. Specifically, the diversion of household organic waste reduces the amount of potential odour generating waste that reaches the DYEC.

All vehicles hauling municipal solid waste to the DYEC have been approved by the MECP. All waste under these waste management system approvals must be transported in a covered vehicle.

Table 1: MSW (Municipal Solid Waste) Hauler Waste Management System ECA's

Hauler	MECP ECA#
Challenger Motor Freight Inc.	A841577
U-Pak Disposals Limited	A8597
J.E. Culp Transport	A820843

The Scale House Operator performs a cursory inspection of hauler vehicles both upon arrival and departure, specifically ensuring covers and tarps are present and there are no obvious leaks or dripping waste. There were no hauler vehicles cited for absent covers, leaks or drips nor were there any incidents of queueing of MSW trucks outside the facility on municipal roadways during the reporting period.

Site personnel monitor the grounds and roadways for litter on a daily basis. Any waste that has fallen from the trucks is either picked up during the daily operator rounds, weekly sweeper truck rounds or monthly site wide clean-up. This work is documented in operator check sheets that are archived at the DYEC.

2.2 Handling and Storage of Waste during Normal Operations

The Tipping Hall entrance and exit are equipped with high speed doors to control potential fugitive emissions (odour or dust) during the truck unloading process. Doors remain closed at all times except to facilitate the entry, positioning and exiting of waste delivery trucks i.e. both entrance and exit doors must be closed before offloading of MSW or loading of Unacceptable Waste may commence. All trucks remain covered/closed until they enter the Tipping Hall, reducing the potential for the release of odour emissions. On an hourly basis, one MSW truck is directed to unload on the Tip Floor. Trained operating personnel perform a visual inspection and any necessary sorting of this waste, which also includes recording the presence of any extreme odours coming from the incoming MSW vehicles. These results are recorded on the Waste Screening Report and are archived at the DYEC. See Appendix 1 for a copy of the Waste Screening Report.

The outdoor storage of waste, whether in or out of transport vehicles, is not permitted.

The entrance and exit doors into the Residue and the Grizzly Buildings are kept closed at all times except to permit the entry or exit of waste transport vehicles and waste handling equipment into and out of these buildings. The air from the Tipping, Residue and Grizzly Buildings and from the Equipment is exhausted through appropriate and fully functional air pollution control (APC) equipment.

2.3 Thermal Treatment of Waste

Under normal operating conditions one or two combustion trains are on line. Combustion air is drawn through the Tipping Hall by the thermal treatment units' combustion air fans through large air inlet ducts above the pit. The process of inducing combustion air flow through the Tipping Hall and across the refuse pit area prevents fugitive dust and odours from escaping into the environment. Potential malodourous air is drawn into the furnace and destroyed via direct exposure to the flame and high temperature oxidation that occurs during the combustion process. A system of manually adjustable louvers controls the amount of makeup air that is admitted to the Tipping Hall from the outside environment. These louvers are adjusted as necessary to ensure odours remain contained within the Tipping Hall and pit area.

2.4 Preventative and Control Measures at the Facility

The DYEC employs numerous preventative and control measures at the facility for odour abatement as listed in Table 2 below.

Table 2: Description of Odour Preventative and Control Measures at the DYEC

Emission Source	Potential Source of Odour	Control Measures / Preventative Procedure		
Trucks	 the queue time of trucks onsite Waste falling off trucks 	 Minimize the queue time through effective delivery protocols If necessary, communication with Transfer Stations to divert trucks to designated locations. Regional and facility staff monitor trucks visually and record drivers that do not follow protocol. Drivers are assessed penalties for coming on to the site with uncovered vehicles. Fallen waste is recovered and moved to the Tipping Hall. 		
Wasta Starage	Outside storage	Waste is not stored outside anywhere on the facility		
Waste Storage	Unacceptable waste	Unacceptable waste is stored in a dedicated location on the Tipping Hall floor. Compressed gas		

Emission Source	Potential Source of Odour	Control Measures / Preventative Procedure		
		cylinders are stored outside the Tipping Hall in a dedicated cage.		
Tipping Hall / Refuse Building	Fugitive odours	 Tipping Hall entrance and exit doors are closed when waste is not being delivered. Combustion Air Fans continuously draw combustion air from the Tipping Hall where the thermal treatment process will destroy any odour. An alarm alerts the control room when combustion air flow into the thermal treatment units drops below low level requiring Tipping Hall air inlet investigation and possible adjustment. Calibration of Boiler Combustion Air Flow Transmitter for Louver Positioning 		
Both thermal treatment trains have an unexpected outage lasting a prolonged period	Both the facility thermal treatment units are off-line for an extended period	 Facility staff communicate with Regional Transfer Stations to divert trucks from the facility Trucks on-site will be diverted to appropriate locations Entrance and exit doors to the Tipping Hall and louvers will be closed to prevent fugitive odour escape. ID Fans will continue to operate as feasible and convey air from the Tipping Hall to the stack. In the unusual case scenario of both units being off line for an extended period, waste in the pit may be recovered and transferred in a covered haul truck to appropriate disposal areas. Active odour suppression using the facility's micronutrient misting system (See 5.1 for a description) 		

3. Inspection and Maintenance

Planned maintenance and inspection activities are an important part of maintaining the effectiveness of odour control measures. The DYEC operations and maintenance staff ensure that all plant processes and equipment perform properly, including those that have a direct effect on the success of the odour control program. A maintenance schedule of all facility equipment is included as part of the facility Operations

and Maintenance Manual. An electronic Maintenance Management System is utilized to co-ordinate and document inspection and repair activities and ensure the availability of critical spare parts. This ensures the DYEC maintains an effective planned inspection and preventative maintenance program on equipment that is critical to odour control and abatement.

3.1 Maintaining Combustion Air Flow

While the thermal treatment units are in operation, combustion air flow is maintained through the Tipping Hall and pit area. A system of louvers is adjusted according to prevailing operating conditions, such as the number of units in operation and also whether or not MSW is being delivered. Louver positions for various unit operating scenarios were developed during the 2014 containment (smoke) test. To ensure this works effectively, regular maintenance and inspection activities are performed to ensure that doors and roof vents are closed and that the building envelope remains in good condition. The doors and louvers are inspected for proper operation on a daily basis. These activities ensure that louver adjustments effectively contain odours within the Tipping Hall and pit.

3.2 Inspection Frequency and Checklists

The DYEC has developed a comprehensive program that includes inspections of all aspects of the facility operations including buildings and the indoor waste storage facilities for the presence of odour and leaks in or near any openings, such as doorways, windows, vents or louvers and any off-site nuisance impacts from odour.

The Equipment Operator performs daily rounds of the Tipping Hall area. Items of concern include confirmation that the louvers are in the correct position, integrity of the entrance/exit doors, presence of dust, odours and leaks exiting/entering the Tipping Hall and for the presence of trash outside of the building. He/She is also responsible for ensuring the misting system is operable when required.

The Environmental Specialist performs an inspection of the entire facility on a weekly basis and records findings on the DYEC Weekly Environmental Site Inspection Form. In addition to odour, litter and track out of MSW are recorded.

The Outside Environmental Checklist was designed to comply with ECA 7306-8FDKNX Condition 5: Equipment and Site Inspections and Maintenance, (5) Inspections. It includes buildings and the indoor waste storage facilities and presence of dust/odour/leaks in or near any openings, such as doorways, windows, vents, louvers or any other opening and off-site nuisance impacts such as odour, dust and litter.

The waste water settling basin (WWSB) is inspected on a daily basis for odour, dust and litter. The results of these inspections, including any actions taken, are recorded on the Outside Environmental Checklist. On a weekly basis, the facility's Environmental Specialist performs an independent check. If necessary, the WWSB can be emptied and cleaned. It has not been the source of any odours during this or any other reporting period. During the reporting year, the WWSB was cleaned out and inspected on May 10th, 2018 per SOP DYEC-BLR-051 Settling Basin Cleaning and Maintenance.

The Waste Screening Report is also completed by the Equipment Operator. Every truck is examined for extreme odour.

Table 3 provides a summary of these facility inspections. See Appendix 1 for copies of the inspection forms.

Table 3: Summary of Inspections, Frequency and Forms

Inspection Type		Form	
Tip Floor Entrance and Evit	Daily	Equipment Operator Daily Rounds	
Tip Floor Entrance and Exit Doors	Weekly	DYEC Weekly Environmental Site Inspection Form	
Louver Positions	Daily	Equipment Operator Daily Rounds	
Zouvoi i collidino	Weekly	DYEC Weekly Environmental Site Inspection Form	
Combustion Air Flow to the Thermal Treatment Units	Continuously recorded on the facility's Distributed Control System	Distributed Control System data historian	
Environmental Inchestion	Daily	Outside Environmental Checklist	
Environmental Inspection (as per ECA 5 (5))	Weekly	DYEC Weekly Environmental Site Inspection Form	
Haul Truck Odour Inspection	Daily – every truck	Waste Screening Report	
Odour Walk	As needed i.e. outages and/or odour concerns	Odour Log	
	Daily	Outside Environmental Checklist	
Waste Water Settling Basin	Weekly	DYEC Weekly Environmental Site Inspection Form	

In addition, the facility has routine equipment maintenance inspections for the operation of the facility as part of the facility Operating and Maintenance Manual.

The following activities are performed throughout the day or on a scheduled basis to control potential sources of fugitive odour emissions:

• The Tipping Floor is cleaned as needed between MSW truck deliveries and at the end of the day

- No waste handling equipment or empty storage containers are stored outside, unless they have been washed
- Equipment and storage areas that are used to handle, process and store waste (including the surfaces of the outdoor spill containment areas) are cleaned as required

3.3 OMMP Plan Review and Continuous Improvement

Inspection and monitoring procedures assist facility personnel in maintaining an effective OMMP. The OMMP will be reviewed and updated, as follows:

- if there are significant changes in the odour emissions sources or in facility operations;
- periodically, every five years (minimum); and/or
- if there are verified complaints associated with odour emissions from the facility.

A review of the OMMP is intended to evaluate the effectiveness of the odour control practices and focus on the identification of improvement opportunities that can reduce the possibility of the release of fugitive odour emissions. Significant changes in the odour emission sources from facility operations have not occurred.

3.4 Training

All new DYEC employees receive standard Environmental Training. This includes a presentation on the Odour Management and Mitigation Plan. Facility staff are trained to identify odour concerns. This training includes:

- management control techniques in place for addressing odour including review of how to conduct and report an odour observation check;
- actions to take in the event of an unexpected odour release; and
- notification protocols.

The facility's Environmental Specialist conducts refresher training on an as necessary basis. Training records are archived at the Facility.

4. Monitoring, Recording and Reporting

During normal operating hours, all staff are responsible to report any abnormal odour emissions at the site. If an abnormal odour is detected, facility staff will implement reactive measures to determine the root cause of the odour. SOP DYEC-PEO-002 External Communications — Public Complaints has been developed to record complaints and ensure adequate information is collected to determine the cause and identify/implement mitigative actions. The SOP covers the following:

- records to be kept, including documentation of maintenance and process conditions;
- meteorological conditions to be recorded; and
- form completion, follow through and notification to the MECP.

The DYEC monitors combustion air flow rates, adjusts Tipping Hall louvers as necessary and maintains equipment to meet the odour control requirements of the ECA. The following monitoring is carried out to evaluate the performance of control and reaction measures in use at the DYEC.

- a) Continuous monitoring of combustion airflow by each unit.
- b) Monthly review of meteorological data provided by the Region of Durham.
- c) Monitoring of complaints and other forms of community feedback.

On a monthly basis all complaints received directly at the DYEC are recorded and delivered to the Region of Durham for inclusion in the monthly complaint logs sent to the MECP.

4.1 Monitoring of Combustion Airflow

The continuous monitoring of the combustion airflow rate through the Tipping Hall is a surrogate for determining whether negative pressure is being maintained within the building. Temperatures, pressures and flow rates are monitored throughout the combustion air and flue gas path. Combustion airflows (Combustion Air Flow Transmitters (1/2-FIT-4202)) in each of the two thermal treatment units are monitored continuously to ensure proper airflow (negative pressure) through the Tipping Hall is maintained. Periodic inspection and annual verification of the combustion air flow transmitters is conducted in accordance with the Containment Test Protocol.

The facility induces airflow through the Tipping Hall and across the refuse pit by combustion air fans that pull the combustion air through the intake ducts located above the cranes on the charging deck. The DCS (Distributed Control System) continuously monitors, measures and records this flowrate. As operating conditions change (i.e. shutdowns, non-delivery times), the airflow is adjusted with the use of louvers on the north wall of the Tipping Hall to maintain sufficient airflow and to prevent the odours from leaving the building. An alarm indicator in the DCS will alert the Control Room Operator of low combustion air flows requiring possible louver repositioning.

In the event that adequate airflow cannot be maintained, additional odour containment and control measures will be implemented.

4.2 Complaints Monitoring

Condition 6 of the Environmental Assessment (EA) and Condition 10 of the ECA both require that the DYEC monitors and responds to odour complaints and inquiries. These complaints may come through the Regions of Durham and York (telephone or email), through the MECP or directly to the facility. DYEC staff are in place to record and respond to these complaints twenty-four (24) hours per day, seven (7) days per week. Written and digital records of complaint follow-up investigations and responses are maintained on site. See Section 6, Odour Complaint and Response Procedure, for additional details.

4.3 Source Odour Sampling

The Tipping Hall has been identified as the principal source of potential fugitive odours. On October 8th and 9th, 2015, Zorix Environmental carried out representative one-time odour sampling as per Ontario Source Testing Code Method ON-6. Triplicate samples were collected from the Tipping Hall feed chute area. These air samples were then analyzed by an 8-member odour panel to determine the typical odour source concentration. Dispersion of worst case potential odours through the stack during a 2-unit outage was modeled using the CALPUFF dispersion model approved under Schedule B of the ECA. According to the model, the

maximum 10-minute odour concentration at a sensitive receptor was 0.28 OU and occurred at a former house to the west of the facility. This result was well within the compliance limit of 1.0 Odour Units.

5. Shutdown or Disruption of Operations

5.1 Scheduled Shutdowns

Scheduled shutdowns are used to complete unit inspection and repairs and are a key component of the facility's maintenance program.

During a single unit outage, the remaining unit continues to run and provides for Tipping Hall and pit area ventilation, maintaining odour control. In addition to this, SOP D-ENV-003 Fugitive Dust and Odour Control, for monitoring and mitigation of odours is employed. This may include the completion of perimeter odour surveys and the use of active odour suppression within the Tipping Hall.

When in a full plant outage (both units offline), Tipping Hall and pit area ventilation is reduced. During this period of time, perimeter odour surveys are completed, louver positions are monitored, and the active odour suppression system may be employed. Table 4 summarizes the planned facility outages during the reporting time frame.

Table 4: 2018 Planned Facility Outages

Unit 1	Unit 2
March 11 – March 29	February 11 – March 1
September 24 – September 29	October 9 – October 19

The facility's active odour suppression system consists of an Aqua Fog® Odour Control unit. This misting unit uses a diluted solution of a plant based organic micronutrient (SciCorp BIOLOGIC® SRC3) which neutralizes odour by stimulating both aerobic and anaerobic non-odour producing bacteria while competitively inhibiting sulphur-reducing and ammonia forming bacteria and enzymes. This mobile misting fan can be placed in varying positions either misting over the MSW in the pit or misting toward the entrance door. The unit, in combination with control (opening and closing) of the louvers on the north wall of the Tipping Hall work effectively to prevent fugitive odour. Aqua Fog® usage dates are documented in Table 5.

Table 5: 2018 Aqua Fog Usage Dates

Dates	Reason				
September 4	Precautionary use (low pit level following the long weekend)				

5.2 Disruption / Unscheduled Shutdowns

A disruption of normal facility operations leading to an unplanned outage is handled in the same way as a planned outage. Louver positions are adjusted to maintain Tipping Hall ventilation. In the event

that both units are affected and adequate negative airflow cannot be maintained, additional odour containment and control measures will be implemented, including the operation of the active odour suppression system.

5.3 Extended Waste Storage

In the event the facility experiences an abnormal / upset condition that causes the Facility to enter an extended emergency waste storage condition, the facility will formally notify the MECP per Condition 2 (8)(b)(i) of the ECA, as amended on March 14, 2016. This notification will include an explanation of the issue, duration of the outage and control measures the facility is implementing to potential odours. These mitigating actions may include reducing waste deliveries, implementing more frequent odour surveys and the operation of the active odour suppression system. MECP notifications of extended waste storage are archived at the site.

There have been no verified odour complaints due to planned or unplanned shutdowns.

6. Odour Complaint Response Procedure

Monitoring of Complaints and Inquiries at the DYEC is a requirement of Condition 6 of the EA and Condition 10 of the ECA.

DYEC has a comprehensive system of monitoring and inspection to check that all odour control measures are functioning effectively. However, in the event that an odour complaint is received, it is important that complaints are properly and systematically addressed and resolved.

Complaints are directed to the DYEC though the Regions of Durham or York or received directly at the facility. The Standard Operating Procedure DYEC-PEO-003 External Communications – Public Complaints is based upon the *Durham/York Energy from Waste Complaint Protocol for Design, Construction & Operations* and is followed whenever an odour complaint is received. *See Appendix 2: DYEC Record of Complaint* for information collected during an investigation.

A register of all odour complaints regarding the site is maintained. A Complaint and Inquiry report submission is provided to the MECP York Durham District Office District Manager on a monthly basis in accordance with the Complaint Protocol approved by the MECP in 2011. Hard copies and digital records of complaints and the complaint investigation and responses are maintained on site. All Complaint and Inquiry logs are available to the public on the DYEC website: www.durhamyorkwaste.ca

All odour complaints made to the facility are reported to the MECP District Office by phone or email as soon as reasonably possible. An investigation into each complaint is immediately initiated. Between November 2017 and October 2018, there were no odour complaints received at the facility.

NOTE:

Under the Odour Management and Mitigation Plan, the Regions committed to notifying the Municipality of Clarington of any odour complaints received. The Municipality advised the Regions on June 16, 2015 that further notifications regarding odour complaints were not required.



EQUIPMENT OPERATOR DAILY ROUNDS

			Boilers On	Incoming Waste	# of Louvers Open	Check ✓					
At 7	am, confirm only one]	1 or 2	Yes	All closed						
	ne following:		1	No	One bank						
			2	No	Two banks						
		,	0	Yes	All closed						
			0	No	One bank						
No	Itam		0 (no ID fan)	No	All closed						
No											
_		Inspect the Loader using the approved inspection form Portable Fire Extinguishers: present and properly charged and fire hose in good condition									
_				erly charged and fir	e nose in good conditi	on					
	Drain all fire system			chife.							
-	Floor area is clear o										
$-\!\!\!\!-$	Review building int			beams, walls etc.							
	Inspect, open and o										
$-\!\!\!\!-$	Confirm all lights are functioning. If lights are out, record in comments below.										
\rightarrow		Dust/odours/water leaks exiting/entering the Tipping Floor. If found, record below.									
	Unacceptable Wastes are stored in proper containment locations and are not stored incompatibly										
	Confirm Spill Kit is full										
	Recycling placed in green recycling bin										
	Trash present outsi	de east o	r west Tip Floor	doors. If yes, pick up							
	Is the misting system	m for odo	ur control in ope	eration?							
	If misting, verify nu	trient is p	resent and reser	voir does not need	refilling during entire s	hift					
\neg	Charging Deck floor	swept/cl	eaned.	Record tim	e -						
\neg	Yellow parapet clea	ned – fre	e of dust	Record tim	e -						
	Stairwells swept/cle	eaned		Record tim	e -						
\neg	Firing Aisle (in front	of Martin	n - El 8.7) cleane	ed Record tim	ie -						
	Barn Door Areas (b				ne -						
\neg			firm heat tracing is on for fire system drip leg								
			Boilers On	Incoming Waste	# of Louvers Open	Check ✓					
			1 or 2	Yes	All closed						
At 71	pm, confirm only one		1	No	One bank						
U. 1	e following:		2	No	Two banks						
	ie ioliowing.										
	ie following.		0	Yes	All closed						
	e ronowing.		0 0 0 (no ID fan)	Yes No No	All closed One bank All closed						



DYEC WEEKLY ENVIRONMENTAL SITE INSPECTION FORM

Date:			Completed By:			
at Catiofa	tani NI Noods I			entief.		
	tory NI – Needs Imp	rovement Uns	at - Un	satista	actory	
GENERAL	CONDITIONS		Sat	NI	UnSat	Comments
Odours are co	ontrolled					
Dust is control	lled – Roadways are adequat	ely swept				
Overall site litt	ter is controlled					
No evidence o						
Facility is main	y condition					
Areas adjacent		1	$\overline{\Box}$			
	ping is neatly trimmed and p		Ī	П		
	,,	,	1		ī	
	Tanks				Comr	ments
	Leaks detected (dust or					
	liquid)					
Carbon	Yes No					
Lime	Yes No					
Pozzolan	Yes No					
Cement	Yes No No					
Diesel Tank	Yes No	Spill Kit -				
Ammonia	Yes No No					
BOILER/TU	IRBINE BUILDING ARI	AS				
		Sat	NI	UnSat	Comments	
	nent or spill pallets	1				
	enches are functioning prop	erly	님			
	f spilled material and/or oil		1			
	dequately stocked (turbine a					
No evidence of	f leaks/spills or malfunctioning	ng equipment				
APC AREA						
			Sat	NI	UnSat	Comments
Surfaces are cl	ear of spilled material and/o	r oil	Sat	NI		Comments
	ear of spilled material and/o		Sat	_	UnSat	Comments
Floor drains/tr		erly	Sat	_		Comments
Floor drains/tr Baghouse syste	enches are functioning prop	erly	Sat	_		Comments
Floor drains/tr Baghouse syste Ammonia tank	enches are functioning prop ems are functioning properly	erly der	Sat	_		Comments
Floor drains/tr Baghouse syste Ammonia tank Carbon/lime/a	enches are functioning prop ems are functioning properly /diking in proper working or	erly der				Comments
Floor drains/tr Baghouse syste Ammonia tank Carbon/lime/a order	enches are functioning prop ems are functioning properly /diking in proper working or	erly der				Comments
Floor drains/tr Baghouse syste Ammonia tank Carbon/lime/a order	enches are functioning property ems are functioning properly (diking in proper working or emmonia injection systems in	erly der				Comments
Floor drains/tr Baghouse syste Ammonia tank Carbon/lime/a order	enches are functioning property ems are functioning properly (diking in proper working or emmonia injection systems in	der proper working				
Floor drains/tr Baghouse syste Ammonia tank Carbon/lime/a order CEMS PERS	enches are functioning property control of the cont	der proper working	Sat		UnSat	
Floor drains/tr Baghouse syste Ammonia tank Carbon/lime/a order CEMS PERI	enches are functioning property are functioning properly (diking in proper working or mmonia injection systems in FORMANCE)	der proper working ssues addressed	Sat		UnSat	
Floor drains/tr Baghouse syste Ammonia tank Carbon/lime/a order CEMS PERF Daily Summary CEMS data qua CEMS mainten	enches are functioning property are functioning properly (diking in proper working or ammonia injection systems in FORMANCE or Reports reviewed and any in ality issues being addressed	der proper working ssues addressed ately performed	Sat		UnSat	

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DYEC WEEKLY ENVIRONMENTAL SITE INSPECTION FORM

Sat – Satisfactory	NI – Needs Improvement U	nSat - Un	satisf	actory	
RO WATER TRE	ATMENT AREA				
		Sat	NI	UnSat	Comments
Floor is clear or spille	d material and/or oil				
Spill kit is adequately	stocked				
No evidence of exces	sive leaks or malfunctioning equipment				
Storage tanks/contain	nment basins properly maintained				
STORM WATER	PONDS and SETTLING BASIN				
		Sat	NI	UnSat	Comments
No evidence of visible	sheen on ponds				
No evidence of visible	sheen on WWSB				
Spill kits at East and V	Vest ponds are adequately stocked				
RESIDUE BUILD	ING AND HANDLING AREAS				
		Sat	NI	UnSat	Comments
Ash, ferrous and non-	-ferrous material is properly contained				
Spill kit is adequately	stocked				
Floor is clear of spille	d material and/or oil				
	out or leaking transport vehicles		П	n	
No sign of ferrous/no		Th.	n	n	
	e beneath outside conveyors	17	Ħ	h	
Condition of Pozzolar		15	H	H	
CONDICION OF POZZOIAI	y cerrent sno base	\dashv	H	H	
CDIZZI V DI III DI	NG & EMERGENCY DIESEL GEN	ERATOR	/ED/	C) AREA	
GRIZZET BOILDI	NG & EMERGENCY DIESEL GEN	Sat	NI	UnSat	Comments
Floor is clear of spille	d material and/or oil				
No sign of excessive a	ash spillage, NO ash track-out.		$\overline{\Box}$		
Spill kit is adequately		Th.	Ħ	'n	
No sign of leaks/spills		1	Ħ	'n	
FIRE PUMP HOL					
TIME FOINT HOC	752	Sat	NI	UnSat	Comments
Spill kits are adequate	ely stocked				Comments
Diesel tanks: no leaks			П	n	
	ning equipment evident	1	ī	'n	
Water tank containm		1	H	ñ	
		౼	H	n	
MAINTENANCE	SHOP				
MAINTENANCE	31101	Sat	NI	UnSat	Comments
No drums or drums o	n spill pallets				
Floor is clear of spille		1			
	n paved areas outside of shop				
	es conducted in a manner minimizing spill		_	_	
potential					

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DYEC WEEKLY ENVIRONMENTAL SITE INSPECTION FORM

Sat – Satisfactory	NI – Needs Improvement Uni	Sat - Un	satisf	actory	
SCALES					
		Sat	NI	UnSat	Comments
Spill kit is adequately	stocked				
Scales and roadway a	re free from MSW/dust/litter				
INTERNALLY GE	NERATED WASTE – COMPRESSO	OR ALLE	ΕY		
		Sat	NI	UnSat	Comments
No evidence of leaks/ drums	spills in the vicinity of the used oil storage				
Tanks and drums pro- spill pallets	vided with secondary containment and/or				
Spill kit is adequately	stocked				
IGW is properly labell	led				
TIPPING FLOOR					
		Sat	NI	UnSat	Comments
Vectors are prevented	d or controlled				
Waste volume in pit a	and tipping floor not excessive				
Daily Waste Screening	g Reports completed				
Spill kit is adequately	stocked				
Chemical/oil spills/de	bris present on floor				
Unacceptable waste s	stored safely				
No track out of MSW					
Louvers are functioni	ng and in correct position				
ADDITIONAL COM	IMENTS:				

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Outside Environmental Checklist

	Operator Name:							
East	South	West	North	Comments				
Y / N	Y / N	Y / N	Y / N					
Y / N	Y / N	Y / N	Y / N					
Y / N	Y / N	Y / N	Y / N					
V / N	V / N	Y / N	Y / N					
_		_						
_	.,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							

Make note of any odours coming from the Water Pollution Control Plant or Y / N Miller Waste			Please record TIME odour was noted:					
East	West	Commer	nts					
Y / N	Y / N							
	Comme	nts						
Y / N								
Y / N								
	Comments							
Y / N	Fuel Level -							
	Comments							
Y / N								
Y / N	If yes, info	orm Shift So	upervisor					
Y / N								
	Comments							
Y / N	Please circle light that is not functioning: NE SE SW NW							
	Comme	Comments						
Y / N								
Y / N	Fuel Leve	-						
8. Grizzly Building			Comments					
Y / N								
Y / N								
	Comments							
	Comme	nts						
Y / N	Comme	nts						
	Y / N Y / N	East South Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Please re Y / N Puel Leve Y / N Fuel Leve Y / N Please cir Comment Y / N Fuel Leve Y / N Fuel Leve Comment Y / N Fuel Leve Y / N Fuel Leve Comment Y / N Fuel Leve Comment Y / N Fuel Leve Comment Y / N Fuel Leve Comment Y / N Fuel Leve Y / N Fuel Leve Y / N Comment Y / N Fuel Leve Y / N Fuel Leve Y / N Comment Y / N Fuel Leve Y / N Comment Y / N Fuel Leve Y / N Comment Y / N Fuel Leve Y / N Comment Y / N Fuel Leve Y / N Y / N Y / N	East South West Y	East				

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Outside Environmental Checklist

10. ACC/ CCW		Comments
Leaks visible – around ACC	Y / N	
Leaks visible – around CCW	Y / N	
ACC Transformer containment free of oil/debris/water	Y / N	If oil is present in containment, do not pump water. Inform Shift Supervisor.
Water Level in north containment (Pump if 2 inches or greater.)	(Inches)	Water Pumped Y / N
Water Level in south containment (Pump if 2 inches or greater.)	(Inches)	Water Pumped Y / N
11. Ammonia		Comments
Containment compromised (cracks/peeling present)	Y / N	
Tank/valves/pipes compromised– leaks visible	Y / N	
Water Level in Dyke (Pump at 2 inches = bottom black line)	(Inches)	Water Pumped Y / N
Water pumped from WWSB or returned to WWSB	Y / N	If Yes, state which direction, when and how much
12. Pozzolan/ Cement/ Carbon Silos		Comments
Silos condition compromised – leaks visible	Y / N	
Pozzolan or Cement build up inside silo?	Y / N	
Offloading areas in clean condition	Y / N	
Make note of any off-site nuisance impact	ts such as	odour, dust, litter etc.
Comments:		

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Waste Screening Report - Tipping Floor

Date:	

Once per hour, Trained Personnel shall unload the incoming Waste on the tipping floor for a manual visual inspection and sorting of the incoming Waste. (ECA - Condition 4 (2)(b)(ii))

		Waste Hauler				Any Unacceptable Waste? Trucks of		eptable	Trucks dumped directly into Pit	ector Initials
	Time	Durham	York (UPAK)	ID#	Yes	No	Yes	No	ID#	
		Dur	y D				163		Please place a D (Durham) or Y (York)	
7am										
8am										
9am										
10am										
11am										
12pm										
1pm										
2pm										
3pm										
4pm										
5pm										
6pm										

To report Unacceptable Waste please use the other side of this form.



Waste Screening Report - Tipping Floor

							Plea	se re	cord vo	lume/q	uanti	ty of ma	eterials	remov	ed fron	n waste	strea	am				
					llasts	ses	oad		as	Liquid		,	rials	arts	ste	- logs		ا ا		Sto	orage L	ocation
	Time of Inspection		Pathological or Biological	MHSW*	Transformers / Ballasts	Chemical Wastes	Hot or Burning Load		Compressed Gas Cylinders	Sealed Drums - Li Wastes	Tires - > 10	Construction Demolition	Recycling Materials	Motor Vechicle Parts	Electronic Waste	Leaf-Yard Waste - logs and stumps		Items > 6 feet	Description of Materials	Floor/Bin	Bermed Area	Compressed Gas Cage Outside
7am		Sa						tes									Wastes					
8am		Hazaardous Wastes						Wastes									le V					
9am		N SI															Unprocessable					
L0am		nop						Unacceptable									oce					
l1am		zaar						less									np					
2pm		На						Jna									J C					
1pm								_									Bulky					
2pm] _					
3pm																						
4pm																						
5pm																						
6pm																						
MHSV	/ - Municipa	Hazar	dous an	d Spec	ial Was	tes: p	esticid	es/he	rbicides,	batteri	es, anti	freeze,	solvents	, light b	ulbs etc.							

comments.	
Shift Supervisor Signature:	
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ODOUR LOG

Date	Time	Wind	Odour	Detected	(V/N)	Location of odours (i.e. east side of admin)	Extent of odours (i.e. How far away from plant can you smell it) Any comments	Yellow Drum Level of Micronutrient (inches)	Micro- nutrient Added (Y/N)	Initial
		ec .								
		-							245	
		+	t						1	
		Ŷ							307	
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COV		
I-IIW		
Personning Testary.	Protecting	Tomorrew.

DYEC Record of Complaint

Tracking	Number:	 (ad	mir	n use	only	1)

Follow Up: (Include date for completion) Response Method (to Complainant):	Describe actions taken to a	ddress the cause of the	e complaint.		
Is the Complainant satisfied with the response and follow-up?	Follow Up: (Include date fo	or completion)			
Was the MECP contacted? Yes No In No, Why? Date of MECP contact: Verbal Written Both Name of MECP contact: Print Signature Facility Manager: Print Signature					
In No, Why? Date of MECP contact:					
Name of MECP contact: Complaint Processor: Print Signature Facility Manager: Print Signature		☐ Yes	□ No		
Complaint Processor: Print Signature Facility Manager: Print Signature			☐ Verbal	_ Written	☐ Both
Print Signature		Print		Sign	ature
Chief Engineer:	Facility Manager:	Print		Sign	ature
Print Signature	Chief Engineer:	Print		Sign	ature
Print Signature Date Closed:		Print		Sign	ature

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DYEC Record of Complaint
Tracking Number: _____ (admin use only)

Describe actions taken to address the cause of the complaint.								
Follow Up: (Include date for completion)								
Response Method (to Comp	olainant):	Telephone	☐ In Person	_ Email				
Is the Complainant satisfied	I with the response ar	nd follow-up?	☐ Yes	No				
If No, Please provide comm	ents/reason:							
Was the MECP contacted? In No, Why?	☐ Yes	☐ No						
Date of MECP contact:		☐ Verbal	☐ Written	☐ Both				
Name of MECP contact:								
Complaint Processor:								
	Print		Sig	nature				
Facility Manager:	Print		Sig	nature				
Chief Engineer:								
	Print		Sig	nature				
Environmental Specialist:	Print							
	rrint		Sig	nature				
Date Closed:								

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