

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY OREGON TITLE V OPERATING PERMIT

Eastern Region 475 NE Bellevue Dr, Suite 110 Bend, OR 97701 Telephone: 541-388-6146

Issued in accordance with provisions of ORS 468A.040 and based on land use compatibility findings included in the permit record.

ISSUED TO:

Deschutes County Dept. of Solid Waste 61050 SE 27th Street Bend, OR 97702

INFORMATION RELIED UPON:

LAND USE COMPATIBILITY STATEMENT:

DEC 21 2016

Application Numbers: Received: 28252 & 28794 06/29/2015 & 10/3/2016

PLANT SITE LOCATION:

Knott Landfill 61050 SE 27th Street Bend, OR 97702 Issued by: Dated:

Date

Deschutes County 06/06/1995 and 12/01/2004

ISSUED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY

An

Mark W. Bailey, Eastern Region Air Quality Manager

Nature of Business	<u>SIC</u>	NAICS
Municipal Solid Waste Landfill	4953	562212

RESPONSIBLE OFFICIAL

Title: Director of Solid Waste

FACILITY CONTACT PERSON

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TABLE OF CONTENTS

LIST OF ABBREVIATIONS THAT MAY BE USED IN THIS PERMIT	3
PERMITTED ACTIVITIES	4
EMISSIONS UNIT (EU) AND POLLUTION CONTROL DEVICE (PCD) IDENTIFICATION	4
EMISSION LIMITS AND STANDARDS, TESTING, MONITORING AND RECORDKEEPING REQUIREMENTS	4
Facility-Wide Requirements Visible and Fugitive Particulate Emissions Nuisance Conditions Asbestos	5 5
Accidental Release Prevention Emergency Generator – NSPS (40 CFR Part 60, Subpart IIII) New Source Performance Standards Emissions Units FLR-01 and FLR-02 Insignificant Activities Requirements	7 7 7 10
PLANT SITE EMISSION LIMITS	12
EMISSION FEES	15
GENERAL TESTING REQUIREMENTS	15
GENERAL MONITORING AND RECORDKEEPING REQUIREMENTS	16
REPORTING REQUIREMENTS	17
General Reporting Requirements Semi-Annual and Annual Reports NSPS Reporting Requirements	18
General Conditions	20

LIST OF ABBREVIATIONS THAT MAY BE USED IN THIS PERMIT

Act	Federal Clean Air Act	NO _x	Nitrogen Oxides
ASTM	American Society of Testing and Materials	O ₂	Oxygen
Btu	British thermal unit	OAR	Oregon Administrative Rules
CFR	Code of Federal Regulations	ODEQ	Oregon Department of Environmental Quality
CO	Carbon Monoxide	ORS	Oregon Revised Statutes
CO ₂ e	Carbon Dioxide Equivalent	O&M	Operation and Maintenance
CPMS	Continuous Parameter Monitoring System	Pb	Lead
DEQ	Department of Environmental Quality	PCD	Pollution Control Device
dscf	dry standard cubic feet	PM	Particulate Matter
EF	Emission Factor	PM_{10}	Particulate Matter less than 10 microns in size
EPA	US Environmental Protection Agency	PM _{2.5}	Particulate Matter less than 2.5 microns in size
EU	Emissions Unit	ppm	parts per million
FCAA	Federal Clean Air Act	PSEL	Plant Site Emission Limit
FSA	Fuel Sampling and Analysis	psia	pounds per square inch, actual
GHG	Greenhouse Gas	SERP	Source Emissions Reduction Plan
gr/dscf	grain per dry standard cubic feet (1 pound = 7000 grains)	SO_2	Sulfur Dioxide
НАР	Hazardous Air Pollutant as defined by OAR 340-244-0040	ST	Source Test
HCFC	Halogenated Chloro-Fluoro- Carbons	VE	Visible Emissions
ID	Identification Number or Label	VMT	Vehicle Miles Traveled
I&M	Inspection and Maintenance	VOC	Volatile Organic Compounds
NA	Not Applicable		

PERMITTED ACTIVITIES

- 1. Until such time as this permit expires or is modified or revoked, the permittee is allowed to discharge air contaminants from those processes and activities directly related to or associated with air contaminant source(s) in accordance with the requirements, limitations and conditions of this permit. [OAR 340-218-0010 and 340-218-0120(2)]
- 2. All conditions in this permit are federally enforceable, meaning that they are enforceable by DEQ, EPA and citizens under the Clean Air Act, except Conditions 6, 7, 8, 9, 10, 11, 12, G5 and G9 (OAR 340-248-0005 through 340-248-0180) are only enforceable by the state. [OAR 340-218-0060]

EMISSIONS UNIT (EU) AND POLLUTION CONTROL DEVICE (PCD) IDENTIFICATION

3. The emissions units regulated by this permit are the following: [OAR 340-218-0040(3)]

Emission Unit Description	EU ID	Pollution Control Device Description	PCD ID
Landfill Gas	LFG-01	Flare	FLR-02 or FLR-01
Flare (Auxiliary)	FLR-01	None	NA
Flare (Primary)	FLR-02	None	NA
Compost Piles	COM-01	None	NA
Petroleum Contaminated Soil	PCS-01	None	NA
Material Handling	MH-01	Water	NA
Unpaved Roads	UPR-01	Dust suppressant and water	NA
Paved Roads	PRD-01	Sweeping and water	NA

 Table 1. EU and PCD Identification:

3.a. The flares are considered a control device for non-methane organic compound (NMOC) emissions from the landfill, but it is a separate emissions unit for all other pollutants.

EMISSION LIMITS AND STANDARDS, TESTING, MONITORING AND RECORDKEEPING REQUIREMENTS

The following tables and conditions contain the applicable requirements along with testing, monitoring and recordkeeping requirements for the emissions units to which those requirements apply.

Facility-Wide Requirements

Table 2.	Facility V	Wide Emission	Limits	and Standards
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Applicable Requirement	Condition Number	Pollutant/ Parameter	Limit/Standard	Monitoring Condition
OAR 340-208-0210(2)	4	Fugitive Emissions	Minimize	5
OAR 340-208-0300	6	Nuisance	No Nuisance	8
OAR 340-208-0450	7	PM >250µm	No Fallout	8
OAR 340-248-0280(10)	9 - 11	Asbestos	Safe Management	12
40 CFR Part 68	13	Risk Management	Risk Management Plan	13

Visible and Fugitive Particulate Emissions

- 4. <u>Applicable Requirement:</u> The permittee must not allow or permit any materials to be handled, transported or stored; or a building, its appurtenances, or a road to be used, constructed, altered, repaired or demolished; or any equipment to be operated, without taking reasonable precautions to prevent particulate matter from becoming airborne. [OAR 340-208-0210(2)]
 - 4.a. Such reasonable precautions must include, but not be limited to the following:
 - 4.a.i. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land;
 - 4.a.ii. Application of water, or other suitable chemicals on unpaved roads, materials stockpiles and other surfaces which can create airborne dusts;
 - 4.a.iii. Full or partial enclosure of materials stockpiles in cases where application of water or chemicals are not sufficient to prevent particulate matter from becoming airborne;
 - 4.a.iv. Installation and use of hoods, fans and fabric filters to enclose and vent the handling of dusty materials;
 - 4.a.v. Adequate containment during sandblasting or other similar operations;
 - 4.a.vi. Covering, at all times when in motion, open bodied trucks transporting materials likely to become airborne; and
 - 4.a.vii. Prompt removal from paved streets of earth or other material that does or may become airborne.
 - 4.b. Upon request by DEQ, the permittee must develop a fugitive emission control plan for approval by DEQ if the above precautions are not adequate, and implement the plan whenever fugitive emissions leave the property for more than 18 seconds in a six-minute period.
- 5. <u>Monitoring Requirement:</u> At least once each week for a minimum period of 30 minutes, the permittee must visually survey the plant for any sources of excess fugitive emissions. For the purpose of this survey, excess fugitive emissions are considered to be any visible emissions that leave the plant site boundaries for more than 18 seconds in a six-minute period. The person conducting the observation must follow the procedures of EPA Method 22. If sources of visible emissions are identified, the permittee must: [OAR 340-208-0300]
 - 5.a. Immediately take corrective action to minimize the fugitive emissions, including but not limited to those actions identified in Condition 4; or
 - 5.b. Develop a DEQ approved fugitive emission control plan upon request by DEQ and implement the plan whenever fugitive emissions leave the property for more than 18 seconds in a six-minute period. [OAR 340-218-0050(3)(a)]
 - 5.c. <u>Recordkeeping:</u> The permittee must maintain records of the fugitive emissions surveys, corrective actions (if necessary), and/or the results of any EPA Method 22 tests.

Nuisance Conditions

- 6. <u>Applicable Requirement:</u> The permittee must not cause or allow air contaminants from any source to cause a nuisance. Nuisance conditions will be verified by DEQ personnel. [OAR 340-208-0300] This condition is enforceable only by the State.
- 7. <u>Applicable Requirement:</u> The permittee must not cause or permit the deposition of any particulate matter larger than 250 microns in size at sufficient duration or quantity, as to create an observable deposition upon the real property of another person. [OAR 340-208-0450] This condition is enforceable only by the State.
- 8. <u>Monitoring Requirement:</u> The permittee must maintain a log of each nuisance complaint received by the permittee during the operation of the facility. Documentation must include date of contact, time of

observed nuisance condition, description of nuisance condition, location of receptor, status of plant operation during the observed period, and time of response to complainant. A plant representative must immediately investigate the condition following the receipt of the nuisance complaint and a plant representative must provide a response to the complainant within 24 hours, if possible. This condition is enforceable only by the state. [OAR 340-218-0050(3)(a)]

Asbestos

- 9. <u>Applicable Requirement:</u> For all asbestos-containing waste material received, the permittee must:
 - 9.a. Ensure that off-loading of asbestos-containing waste material is done under the direction and supervision of the landfill operator or their authorized agent and accomplished in a manner that prevents the leak-tight transfer containers from rupturing and prevents visible emissions to the air. [OAR 340-248-0280(10)(a)(A)] If visible emissions are observed, the permittee must immediately take measures to suppress emissions. Such measures include but are not limited to wetting the source of emissions or covering the source of emissions with soil.
 - 9.b. Ensure that off-loading of asbestos-containing waste material occurs at the immediate location where the waste is to be buried and restrict public access to the off-loading area until waste is covered. [OAR 340-248-00280(10)(a)(B)]
 - 9.c. Immediately notify the Department by telephone, followed by a written report the following working day, of the presence of improperly enclosed or uncovered waste. Submit a copy of the signed asbestos waste shipment record along with the report. [OAR 340-248-0280(10)(a)(D)]
 - 9.d. Send a copy of the signed asbestos waste shipment record to the asbestos waste generator as soon as possible, but no longer than 30 days after receipt of the waste. [OAR 340-248-0280(10)(a)(E)]
 - 9.e. Upon discovering a discrepancy between the quantity of waste designated on the asbestos waste shipment records and the quantity actually received, attempt to reconcile the discrepancy with the asbestos waste generator. If the discrepancy cannot be reconciled, the permittee must report the discrepancy and reconciliation attempts in writing to the Department within the 15th day after receiving the waste. A copy of the asbestos waste shipment record with the Department assigned asbestos project number shall be submitted with this report. [OAR 340-248-0280(10)(a)(F)]
 - 9.f. Select the asbestos waste burial site in an area of minimal work activity that is not subject to future excavation. [OAR 340-248-0280(10)(a)(G)]
 - 9.g. Cover all asbestos-containing waste material deposited at the disposal site with at least 12 inches of soil or six inches of soil plus 12 inches of other waste before compacting equipment runs over it, but no later than the end of the operating day. [OAR 340-248-0280(10)(a)(H)]
- 10. <u>Applicable Requirement:</u> Excavation or disturbance of asbestos-containing waste material, that has been deposited at a waste disposal site and is covered, shall be considered an asbestos abatement project. The notification for any such project shall be submitted as specified in OAR 340-248-0260 with some exceptions as detailed by rule. [OAR 340-248-0280(10)(c)]
- 11. <u>Applicable Requirement:</u> Upon closure of an active asbestos-containing waste disposal site each owner or operator shall comply with all provisions for an inactive asbestos-containing waste disposal site. [OAR 340-248-0280(10)(d)]
- 12. <u>Monitoring and Recordkeeping Requirements:</u> The permittee must maintain the following records for asbestos:
 - 12.a. Shipment records for at least two years and ensure that all information requested on the Department form regarding waste disposal has been supplied. [OAR 340-248-0280(10)(a)(C)]
 - 12.b. Records of the location, depth and area, and quantity in cubic yards of asbestos-containing waste material within the disposal site on a map or diagram of the disposal area until site closure.
 [OAR 340-248-0280(10)(b)] Copies of these records indicating locations and quantities shall be submitted to the Department upon closure. [OAR 340-248-0280(10)(d)(B)]

Accidental Release Prevention

13. <u>Applicable Requirement:</u> Should this stationary source become subject to the accidental release prevention regulations in 40 CFR Part 68, then the permittee must submit a risk management plan (RMP) by the date specified in 40 CFR 68.10 and comply with the plan and all other applicable Part 68 requirements. [40 CFR Part 68]

Emergency Generator - NSPS (40 CFR Part 60, Subpart IIII)

- 14. 40 CFR Part 60 Subpart IIII, NSPS requirements are applicable to the emergency stationary Compression Ignition (CI) Internal Combustion Engine (ICE): [40 CFR 60.4205]
 - 14.a. The permittee must comply with fuel, metering, labeling, operating limits and recordkeeping requirements for the emergency generator. The emergency generator must comply with the emission standards for new non-road CI engines in 40 CFR 60.4202(a), for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE. [40 CFR 60.4205(b)]
 - 14.b. The permittee must comply with the emergency engine generator standards set forth in 40 CFR 60.4205 over the entire life of the engine. [40 CFR 60.4206]
 - 14.c. The permittee must meet the requirements of 40 CFR 80.510(b) for non-road diesel fuel. [40 CFR 60.4207(b)]
 - 14.d. The permittee must install a non-resettable hour meter on the engine. [40 CFR 60.4209(a)]
 - 14.e. The permittee must operate and maintain the CI internal combustion engines and control devices according to the manufacturer's written instructions or procedures developed by the permittee that are approved by the engine manufacturer. The permittee may only change those settings that are permitted by the engine manufacturer. [40 CFR 60.4211(f)]
 - 14.e.i. There is no time limit on the use of emergency engine in emergency situations. [40 CFR 60.4211(f)(1)]
 - 14.e.ii. The permittee must operate the emergency engine for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the manufacturer, the vendor, or the insurance company associated with the engine. Required maintenance and testing of such units is limited to 50 hours per year. [40 CFR 60.4211(f)(2)]
 - 14.e.iii. The permittee is prohibited from using its emergency engine for any non-emergency use including, but not limited to peak shaving, demand response operation, and/or generation of income from the sale of power. To perform such activity the permittee must first obtain a modified permit or a separate permit for power generation that appropriately addresses and allows this activity.

Table 3. La	andfill Gas	(LFG-01)) Rec	uirements
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Applicable Requirement	Condition Number	Pollutant/ Parameter	Limit/Standard	Monitoring Condition
40 CFR 60.752	15	NMOC	Capture and Control Once NMOC Exceeds 50 Megagrams/Year	16

New Source Performance Standards

15. <u>Applicable Requirements:</u> The permittee must either comply with 40 CFR 60.752(b)(2) or calculate an NMOC emission rate for the landfill using the procedures specified in Condition 16. The NMOC emission rate must be recalculated annually, except as provided in Condition 42.b. If the calculated NMOC emission rate is less than 50 megagrams per year, the permittee must:

- 15.a. Submit an annual emission report to the Department, except as provided for in Condition 42.b; and
- 15.b. Recalculate the NMOC emission rate annually using the procedures specified in Condition 16 until such time as the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, or the landfill is closed.
 - 15.b.i. If the NMOC emission rate upon recalculation is equal to or greater than 50 megagrams per year, the permittee must install a collection and control system in accordance with 40 CFR 60.752(b)(2).
 - 15.b.ii. If the landfill is permanently closed, a closure notification must be submitted to the Department as provided in 40 CFR 60.757(d)
- 16. <u>Testing and Monitoring Requirement:</u> The permittee must calculate the NMOC emission rate using the equation provided below. The values to be used in the equation are 0.05 per year for k, 170 cubic meters per megagram for L_o , and a site specific value determined in accordance with permit Condition 16.b for C_{NMOC} . For landfills located in geographical areas with a thirty year annual average precipitation of less than 25 inches, as measured at the nearest representative official meteorological site, the k value that may be used is 0.02 per year. [40 CFR 60.754(a)(1)]
 - 16.a. To calculate the NMOC emission rate, use the following equation: [40 CFR 60.754(a)(1)(i)]

$$M_{NMOC} = \sum_{i=1}^{n} 2kL_{o}M_{i} \left(e^{-kt_{i}}\right) C_{NMOC} \left(3.6x10^{-9}\right)$$

Where:

M _{NMOC}	=	Total NMOC emission rate from the landfill, megagrams per year
k	=	Methane generation rate constant, year ⁻¹ (0.02 or 0.05 year ⁻¹ – see above)
Lo	=	Methane generation potential, cubic meters per megagram solid waste (170
		m ³ /Mg)
M_i	=	Mass of solid waste in the i th section, megagrams (see Condition 16.e)
ti	=	Age of the i th section, years
C _{NMOC}	=	Concentration of NMOC, parts per million by volume as hexane (590 ppm or
		value determine in accordance with Condition 16.b)
3.6x10 ⁻⁹	=	Conversion factor

16.b. *Tier 2.* The permittee must determine the NMOC concentration using the following sampling procedure. The permittee must install at least two sample probes per hectare of landfill surface that has retained waste for at least 2 years. If the landfill is larger than 25 hectares in area, only 50 samples are required. The sample probes should be located to avoid known areas of nondegradable solid waste. The permittee must collect and analyze one sample of landfill gas from each probe to determine the NMOC concentration using Method 25C or Method 18 of Appendix A of 40 CFR Part 60. If using Method 18, the minimum list of compounds to be tested must be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42). If composite sampling is used, equal volumes must be taken from each sample probe. If more than the required number of samples are collected, all samples must be used in the analysis. The permittee must divide the NMOC concentration from Method 25C by six to convert from C_{NMOC} as carbon to C_{NMOC} as hexane. If the landfill has an active or passive gas removal system in place, Method 25 or 25C samples may be collected from these systems instead of surface probes provided the removal system can be shown to provide sampling as representative as the two sampling probe per hectare requirement. For active collection systems, samples may be collected from the common header pipe before the gas moving or condensate removal equipment. For these systems, a minimum of three samples must be collected from the header pipe. [40 CFR 60.754(a)(3)]

- 16.b.i. The Tier 2 analysis must be performed once during the permit term by October 27, 2018. The permittee must submit a source test plan to the Department at least 15 days prior to the date of the tests. The test plan must be prepared in accordance with the Department's Source Sampling Manual and address any planned variations or alternatives to the prescribed test methods, such as the procedures to be used for collecting a single composite sample. The permittee should be aware that if significant variations are requested, it may require more than 30 days for the Department to grant approval and may require EPA approval in addition to Department approval. [OAR 340-212-0120(3)]
- 16.b.ii. The permittee must recalculate the NMOC mass emission rate using the equation provided in Condition 16.a and using the average NMOC concentration (C_{NMOC}) from the collected samples instead of the default value in the equation provided in Condition 16.a.
- 16.b.iii. If the resulting mass emission rate calculated using the site-specific NMOC concentration is equal to or greater than 50 megagrams per year, then the permittee must either comply with 40 CFR §60.752(b)(2) or determine the site-specific methane generation rate constant (k) and recalculate the NMOC emission rate using the site-specific methane generation rate using the procedure specified in Condition 16.c.
- 16.b.iv. If the resulting NMOC mass emission rate is less than 50 megagrams per year, the permittee must submit a periodic estimate of the emission rate report as provided in Condition 42 and retest the site-specific NMOC concentration within 5 years using the methods specified in this Condition.
- 16.c. *Tier 3*. The site-specific methane generation rate constant must be determined using the procedure provided in Method 2E of Appendix A of 40 CFR Part 60. The permittee must estimate the NMOC mass emission rate using the equation in Condition 16.a and using the site-specific methane generation rate constant (k), and the site-specific NMOC concentration (C_{NMOC}) as determined in Condition 16.b instead of the default values provided in Condition 16.a. The permittee must compare the resulting NMOC mass emission rate to the standard of 50 megagrams per year. [40 CFR 60.754(a)(4)]
 - 16.c.i. If the NMOC mass emission rate as calculated using the site-specific methane generation rate (k) and concentration of NMOC (C_{NMOC}) is equal to or greater than 50 megagrams per year, the permittee must comply with 40 CFR 60.752(b)(2).
 - 16.c.ii. If the NMOC mass emission rate is less than 50 megagrams per year, then the permittee must submit a periodic emission rate report as provided in Condition 42 and shall recalculate the NMOC mass emission rate annually, as provided in Condition 42 using the equation in Condition 16.a and using the site-specific methane generation rate constant (k) and NMOC concentration (C_{NMOC}) obtained in Condition 16.b. The calculation of the methane generation rate constant is performed only once, and the value obtained from this test must be used in all subsequent annual NMOC emission rate calculations.
- 16.d. The permittee may use other methods to determine the NMOC concentration or a site-specific k as an alternative to the methods required in Conditions 16.b and 16.c if the method has been approved by the EPA. [40 CFR 60.754(a)(5)] [Note: The authority to approve alternative methods has not been delegated to the Department in accordance with 40 CFR 60.750(b)]
- 16.e. The mass of nondegradable solid waste may be subtracted from the total mass of solid waste in a particular section of the landfill when calculating the value for M_i if documentation of the nature and amount of such wastes is maintained. [40 CFR 60.754(a)(1)(i)]

Emissions Units FLR-01 and FLR-02

Applicable Requirement	Condition Number	Pollutant/ Parameter	Limit/Standard	Monitoring Condition
OAR 340-208-0110(4)	17	Visible Emissions	20% Opacity	17
OAR 340-228-0210(2)(b)(B)	18	PM	0.14 gr/dscf	18 & 20
ACDP 09-0040, Condition 2.1	19	Operation and Maintenance	See Condition 19	20

Table 4. Summary of Requirements for the Flares (FLR-01 & FLR-02)

- 17. <u>Applicable Requirement:</u> Visible emissions from the flare must not exceed 20% opacity for any six minute block average using EPA Method 9. [OAR 340-208-0110(4)]
- 18. <u>Applicable Requirement:</u> Particulate matter emissions must not exceed 0.14 gr/dscf as measured by Oregon Method 5. [OAR 340-226-0210(2)(b)(B)]
- 19. <u>Applicable Requirement:</u> The permittee must operate the primary flare (FLR-02) and backup flare (FLR-01) in accordance with good combustion practices and perform routine maintenance to maintain maximum destruction efficiency. Operation and maintenance activities are to include but not be limited to: [ACDP 09-0040, Condition 2.1]
 - 19.a. The temperature sensing system for determining a flame-out event is to be operating whenever the flare is in use and the igniter system is to be activated at a temperature no less than 200° F.
 - 19.b. The flame arrestor filter must be cleaned as specified within the landfill gas (LFG) extraction system Operations and Maintenance Manual (O&M). At a minimum, the flame arrestor filter will be cleaned annually. Maintenance activities are to be recorded as per Condition 21.i.
 - 19.c. Maintenance to the mechanical flow measuring device at the inlet to the flare must be conducted in such a manner to assure accurate LFG flow measurements. Maintenance activities are to be recorded as per Condition 21.j.
- 20. <u>Monitoring Requirements:</u> The permittee must monitor the operation and maintenance of the LFG extraction system as follows: [ACDP 09-0040, Condition 4.1]
 - 20.a. At a minimum, the permittee must monitor the flow rate of the LFG at the inlet to the blower serving the flare once for every ten (10) days the LFG extraction system is in operation. LFG flow rate records must be maintained and reported as per Conditions 21.c and 38.b.v.C.
 - 20.b. At a minimum, the permittee must continuously monitor the exit temperature of the flare when the LFG extraction system is in operation. The temperature must be recorded as per Condition 21.d.
 - 20.c. At a minimum, the permittee must monitor the LFG composition once for every ten (10) days the LFG extraction system is in operation. The composition analysis must include methane (CH₄) concentration and the measurement records must be maintained and reported as per Conditions 21.e. and 38.b.v.D
 - 20.d. At a minimum, the permittee must monitor the operating parameters of the flame arrestor for determining the condition of the flame arrestor once for every ten (10) days the LFG extraction system is in operation. The flame arrestor parameters are to be recorded as per Condition 21.f.
 - 20.e. At a minimum, the permittee must monitor the hours of flare operation every ten (10) calendar days. The hours of flare operation are to be recorded and reported as per Conditions 21.g. and 38.b.v.F.
 - 20.f. At a minimum, the permittee must visually inspect all working components of the flare serving the LFG extraction system for signs of incomplete combustion (i.e. flame color, smoke, excessive soot build up, etc.) once for every ten (10) days the LFG extraction system is in operation. If

incomplete combustion is suspected, corrective action is to be performed immediately. Findings are to be recorded as per Condition 21.h.

- 21. <u>Recordkeeping:</u> The permittee must maintain the following records related to the operation and maintenance of the facility and associated air contaminant control devices: [ACDP 09-0040, Condition 6.1]
 - 21.a. All operating parameters to be reported to the Department annually as required by Condition 38.b.v.
 - 21.b. The permittee must record the cumulative amount of MSW within Knott Landfill at the conclusion of every calendar month.
 - 21.c. The permittee must record the LFG flow rate at the inlet to the blower serving the flare at least once every ten (10) days the LFG extraction system is in operation.
 - 21.d. The permittee must record the exit temperature of the flare at least once daily the LFG extraction system is in operation. Records must be kept within a logbook.
 - 21.e. The permittee must record the LFG composition (CH_4 concentration) at the inlet to the blower serving the flare at least once every ten (10) days the LFG extraction system is in operation. Records must be kept within a logbook.
 - 21.f. The permittee must record the operating parameters of the flame arrestor at least once every ten (10) days the LFG extraction system is in operation. Records must be kept within a logbook.
 - 21.g. The permittee must record the hours of flare operation at least once every ten (10) calendar days. Records must be kept within a logbook.
 - 21.h. The permittee must record the results of each visual inspection for determining incomplete combustion from the flare as specified by Condition 20.f. Records must be kept within a logbook.
 - 21.i. The permittee must record all maintenance performed on the blower, flame arrestor and flare within a logbook. Entries are to be recorded immediately preceding the activity.
 - 21.j. The permittee must record all maintenance and calibration activities performed on the flow measurement devices, thermocouples, igniter system and portable gas analyzing equipment. Entries are to be recorded within a logbook immediately preceding the activity.

Insignificant Activities Requirements

- 22. DEQ acknowledges that insignificant emissions units (IEUs) identified by rule as either categorically insignificant activities or aggregate insignificant emissions as defined in OAR 340-200-0020 exist at facilities required to obtain an Oregon Title V Operating Permit. IEUs must comply with all applicable requirements. In general, the requirements that could apply to IEUs are incorporated as follows:
 - 22.a. OAR 340-208-0110(4) (20% opacity for non-fugitive sources)
 - 22.b. OAR 340-226-0210(2)(b)(B) (0.14 gr/dscf for non-fugitive, non-fuel burning equipment)
 - 22.c. OAR 340-226-0310 (process weight limit for non-fugitive, non-fuel burning process equipment)
 - 22.d. OAR 340-228-0210(b)(B) (0.14 gr/dscf corrected to 12% CO₂ for fuel burning equipment)
 - 22.e. The permittee must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to the following: [40 CFR 63.11116(a), (b), (d) and OAR 340-244-0240]
 - 22.e.i. Minimize gasoline spills;
 - 22.e.ii. Clean up spills as expeditiously as practicable;
 - 22.e.iii. Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
 - 22.e.iv. Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.
 - 22.e.v. The permittee is not required to submit the notifications or reports as specified in 40 CFR 63.11124 and 63.11126, or Subpart A. The permit must have records available within 24 hours of a request by DEQ to document gasoline throughput.

- 22.e.vi. Portable gasoline containers that meet the requirements of 40 CFR Part 59, Subpart F, are considered acceptable for compliance with Condition 22.e.iii.
- 22.f. In addition to the measures specified in Condition 22.e, the permittee must take the following measures to minimize vapor releases: [OAR 340-244-0240, state only enforceable]
 - 22.f.i. Do not top off or overfill vehicle tanks. If a person can confirm that a vehicle tank is not full after the nozzle clicks off (such as by checking the vehicle's fuel tank gauge), the person may continue to dispense fuel using best judgment and caution to prevent a spill;
 - 22.f.ii. Post a sign at the gasoline dispensing facility (GDF) instructing a person filling up a motor vehicle to not top off the vehicle tank;
 - 22.f.iii. Ensure that cargo tanks unloading at the GDF comply with Conditions 22.e.i through 22.e.iii, 22.f.i and 22.f.ii.
 - 22.f.iv. The permittee must only load gasoline into storage tanks at the facility by utilizing submerged filling, as defined in OAR 340-244-0030. The submerged fill pipe must be no more than 12 inches from the bottom of the storage tank.

Unless otherwise specified in this permit or an applicable requirement, DEQ is not requiring any testing, monitoring, recordkeeping or reporting for the applicable emissions limits and standards that apply to IEUs. However, if testing were performed for compliance purposes, the permittee would be required to use the test methods identified in and perform the testing in accordance with DEQ's Source Sampling Manual.

PLANT SITE EMISSION LIMITS

23. The permittee must not cause or allow plant site emissions to exceed the following limits for any 12 consecutive calendar month period: [OAR 340-222-0035 through OAR 340-222-0041]

Pollutant	Plant Site Emission Limit (tons/yr)
РМ	25
PM_{10}	14
PM _{2.5}	9
SO_2	39
NO _x	39
СО	99
VOC	39
NMOC	49
GHG (CO ₂ e)	84,684

- 24. <u>Monitoring Requirement:</u> The permittee must determine pollutant emissions, except for GHG, from the landfill using the formulas provided below. Emissions must be calculated each month for the previous 12-month period. Records must be maintained and reported as per Condition 38.b. [OAR 340-222-0080]
 - 24.a. The permittee must determine the fugitive uncontrolled NMOC and VOC monthly and 12-month consecutive rolling emissions from the landfill (LFG-01) by subtracting the combusted NMOC by the flare from the uncontrolled emissions from the landfill using the following formula:

E _{NMOC}	=	Uncontrolled NMOC – Combusted NMOC by the Flare
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Where:

Uncontrolled NMOC	=	$[\sum 2kL_oM_i(e^{-kti})(C_{NMOC}/1,000,000)(3.6x10^{-9}) \ge 1.1023]$
Combusted NMOC by the Flare	=	$[(Q_{LFG})(C_{NMOC}/)(MW_{Hexane}/K) \ge 60 \ge H \ge (1 \ ton/2,000 \ lb)]$

 $E_{VOC} = E_{NMOC} \times 0.997$

Where:

E _{NMOC}	=	Non-methane organic compound emissions from the landfill (tons/yr)
Evoc	=	Volatile organic compound emissions from the landfill (tons/yr)
Lo	=	Methane generation potential
	=	$170 \text{ m}^3 \text{CH}_4/\text{Mg}$ waste
k	=	Methane generation rate constant
	=	0.02/yr
Κ	=	Molar volume at standard conditions
	=	359.05 dscf/lb-mole
М	=	Waste acceptance rate (Mg/yr)
ti	=	Age of landfill from the 1 st year through current year
C _{NMOC}	=	NMOC concentration
	=	313 ppm (as Hexane) or as measured in Condition 16.b.
1.1023	=	Constant for converting megagrams to tons
Q _{LFG}	=	Average flow rate of the landfill gas captured and combusted in the Flare (scfm)
MW _{Hexa}	ne=	Molecular weight of hexane
	=	86.18 lb/lb-mole
Н	=	Flare operating time (hours/year)
0.6	=	Ratio of VOC to NMOC based on speciated emission estimates from AP-42
		Table 2.4-2

24.b. The permittee must determine PM, PM_{10} , $PM_{2.5}$, NO_x and CO monthly and 12-month consecutive rolling emissions from the Flare using the following formula and emission factors:

$$E_x = EF_x x (Q_{CH4}/1,000,000) x 60 x H x (1 ton/2,000 lb)$$

Where:

Ex	=	Pollutant x emissions (tons/year);
EFx	=	Pollutant x emission factor (lb/MMscf CH ₄);
	=	15 for PM
	=	15 for PM_{10}
	=	15 for PM _{2.5}
	=	39 for NO _x
	=	46 for CO
Q_{CH4}	=	Average CH_4 flow rate to the flare (scfm);
Н	=	Flare operating time (hours/year)

The permittee must determine SO_2 emissions from the Flare using the following formula. 24.c. Emissions must be calculated each month for the previous 12-month period. Records must be maintained and reported as per Condition 21.

	E_{SO2}	$= (C_{\rm S}/10^6)(2 \text{ x MW}_{\rm S}/{\rm K})(Q_{\rm LFG}) \text{ x 60 x H x (1 ton/2,000 lb)}$		
Where:				
E _{SO2}	=	SO ₂ emissions (tons/year);		
Cs	=	Total reduced sulfur concentration in landfill gas (ppm)		
	=	47 ppm		
MWs	=	Molecular weight of Sulfur		
	=	32 lb/lb-mole		
Κ	=	Molar volume at standard conditions t		
	=	359.05 dscf/lb-mole		
Q_{LFG}	=	Average flow rate of the landfill gas captured and combusted in the flare (scfm)		
Н	=	Flare operating time (hours)		

24.d. The permittee must determine VOC and NMOC monthly and 12-month consecutive rolling emissions from the Flare using the following formula and emission factors:

Who	***
wne	re:

Where

Ex

=

ere:		
Ex	=	Pollutant x emissions (tons/year);
C _x	=	Pollutant x concentration in landfill gas (ppm)
	=	312 for VOC
	=	313 for NMOC
MW_x	=	Pollutant x molecular weight (lb/lb-mole) (74 for VOC and 86.18 for NMOC)
Κ	=	Molar volume at standard conditions
	=	359.05 dscf/lb-mole
Q_{LFG}	=	Average flow rate of the landfill gas captured and combusted in the flare (scfm)
Н	=	Flare operating time (hours)
CE	=	Destruction efficiency/100
	=	0.977

 $(C_x/10^6)(MW_x/K)(Q_{LFG}) \ge 60 \ge H \ge (1 - CE)(1 -$

The permittee must determine VOC monthly and 12-month consecutive rolling emissions from the 24.e. use of petroleum contaminated soil (PCS) using the following formula and emission factors:

	E_{VOC}	$= M_{PCS} \times EF_{VOC} \times 1 \text{ ton/2,000 lb}$	
ere:			
E_{VOC}	=	VOC emissions (tons/yr)	
M _{PCS}	=	PCS material received (tons/yr);	
EFvoc	=	VOC emission factor (lb/ton of PCS)	

- $\mathrm{EF}_{\mathrm{VOC}}$ 0.25 =
- 24.f. The permittee must determine VOC monthly and 12-month consecutive rolling emissions from the compost piles using the following formula and emission factors:

	E _{VOC}	$= M_{CP} \times EF_{VOC} \times 1 \text{ ton/2,000 lb}$	
Where:			
E _{VOC}	=	VOC emissions (tons/yr)	
M_{CP}	=	Compost material throughput (tons/yr);	
EF _{VOC}	=	VOC emission factor (lb/ton of compost material)	
	=	1.78	

24.g. The permittee must determine fugitive PM, PM_{10} , $PM_{2.5}$ monthly and 12-month consecutive rolling emissions from the landfill activities using the following formula and emission factors:

	E_x	= $W \times EF_x \times 1 \tan/2,000 \text{ lb}$	
Where:			
E_x	=	Pollutant x emissions (tons/yr)	
W	=	Waste received (tons/yr);	
EF_x	=	Pollutant x emission factor (lb/ton of waste)	
	=	0.21 for PM	
	=	0.06 for PM ₁₀	
	=	0.01 for PM _{2.5}	

- 24.h. Total monthly and 12-month consecutive rolling emissions from the landfill operations for each 12-month period are the sum of the emissions calculated in Conditions 24.a through 24.g for each pollutant.
- 24.i. The emissions factors listed in this Condition are not enforceable limits unless otherwise specified in this permit. Compliance with PSELs must only be determined by the calculations contained in this Condition. Documentation of the emission factors used in this Condition is provided in the emission detail sheets attached to the permit review report.

EMISSION FEES

25. Emission fees will be based on the Plant Site Emission Limits, unless permittee elects to report actual emissions for one or more permitted processes/pollutants. [OAR 340-220-0090]

GENERAL TESTING REQUIREMENTS

- 26. Unless otherwise specified in this permit, the permittee must conduct all testing in accordance with DEQ's Source Sampling Manual. [OAR 340-212-0120]
 - 26.a. Unless otherwise specified by a state or federal regulation, the permittee must submit a source test plan to DEQ at least 30 days prior to the date of the test. The test plan must be prepared in accordance with the Source Sampling Manual and address any planned variations or alternatives to prescribed test methods. Permittee should be aware, if significant variations are requested; it may require more than 30 days for DEQ to grant approval and may require EPA approval in addition to approval by DEQ.
 - 26.b. Only regular operating staff may adjust the processes or emission control device parameters during a compliance source test and within two (2) hours prior to the tests. Any operating adjustments made during a compliance source test, which are a result of consultation during the tests with source testing personnel, equipment vendors, or consultants, may render the source test invalid.
 - 26.c. Unless otherwise specified by permit condition or DEQ approved source test plan, all compliance source tests must be performed as follows:
 - 26.c.i. At least 90% of the design capacity for new or modified equipment;
 - 26.c.ii. At least 90% of the maximum operating rate for existing equipment; or
 - 26.c.iii. At 90 to 110% of the normal maximum operating rate for existing equipment. For purposes of this permit, the normal maximum operating rate is defined as the 90th percentile of the average hourly operating rates during a 12 month period immediately preceding the source test. Data supporting the normal maximum operating rate must be included with the source test report.

- 26.d. Each source test must consist of at least three (3) test runs and the emissions results must be reported as the arithmetic average of all valid test runs. If for reasons beyond the control of the permittee a test run is invalid, DEQ may accept two (2) test runs for demonstrating compliance with the emission limit or standard.
- 26.e. Source test reports prepared in accordance with DEQ's Source Sampling Manual must be submitted to DEQ within 60 days of completing any required source test, unless a different time period is approved in the source test plan submitted prior to the source test.

GENERAL MONITORING AND RECORDKEEPING REQUIREMENTS

General Monitoring Requirements

- 27. The permittee must not knowingly render inaccurate any required monitoring device or method. [OAR 340-218-0050(3)(a)(E)]
- 28. The permittee must use the same methods to determine compliance as those used to determine actual emissions for fee purposes and can be no less rigorous than the requirements of OAR 340-218-0080. [OAR 340-218-0050(3)(a)(F)]
- 29. The permittee must comply with the monitoring requirements on the date of permit issuance unless otherwise specified in the permit or an applicable requirement. [OAR 340-218-0050(3)(a)(G)]

General Recordkeeping Requirements

- 30. The permittee must maintain the following general records of testing and monitoring required by this permit: [OAR 340-218-0050(3)(b)(A)]
 - 30.a. The date, place as defined in the permit, and time of sampling or measurements;
 - 30.b. The date(s) analyses were performed;
 - 30.c. The company or entity that performed the analyses;
 - 30.d. The analytical techniques or methods used;
 - 30.e. The results of such analyses;
 - 30.f. The operating conditions as existing at the time of sampling or measurement; and
 - 30.g. The records of quality assurance for continuous monitoring systems (including but not limited to quality control activities, audits, calibration drift checks).
- 31. Unless otherwise specified by permit condition, the permittee must make every effort to maintain 100 percent of the records required by the permit. If information is not obtained or recorded for legitimate reasons (e.g., the monitor or data acquisition system malfunctions due to a power outage), the missing record(s) will not be considered a permit deviation provided the amount of data lost does not exceed 10% of the averaging periods in a reporting period or 10% of the total operating hours in a reporting period, if no averaging time is specified. Upon discovering a required record is missing, the permittee must document the reason for the missing record. In addition, any missing record that can be recovered from other available information will not be considered a missing record. [OAR 340-214-0110, 340-214-0114, and 340-218-0050(3)(b)]
- 32. The permittee must comply with the recordkeeping requirements on the date of permit issuance unless otherwise specified in the permit or an applicable requirement. [OAR 340-218-0050(3)(b)(C)]
- 33. Unless otherwise specified, the permittee must retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report or application. Support information includes all calibration and maintenance records and all original strip-chart recordings (or other original data) for continuous monitoring instrumentation, and copies of all

reports required by the permit. All existing records required by the previous Air Contaminant Discharge Permit or Oregon Title V Operating Permit must also be retained for five (5) years from the date of the monitoring sample, measurement, report or application. [OAR 340-218-0050(b)(B)]

REPORTING REQUIREMENTS

General Reporting Requirements

- 34. <u>Excess Emissions Reporting</u>: The permittee must report all excess emissions as follows: [OAR 340-214-0300 through 340-214-0360]
 - 34.a. Immediately (within 1 hour of the event) notify DEQ of an excess emission event by phone, email or facsimile; and
 - 34.b. Within 15 days of the excess emissions event, submit a written report that contains the following information: [OAR 340-214-0340(1)]
 - 34.b.i. The date and time of the beginning of the excess emissions event and the duration or best estimate of the time until return to normal operation;
 - 34.b.ii. The date and time the permittee notified DEQ of the event;
 - 34.b.iii. The equipment involved;
 - 34.b.iv. Whether the event occurred during planned startup, planned shutdown, scheduled maintenance, or as a result of a breakdown, malfunction or emergency;
 - 34.b.v. Steps taken to mitigate emissions and corrective action taken, including whether the approved procedures for a planned startup, shutdown or maintenance activity were followed;
 - 34.b.vi. The magnitude and duration of each occurrence of excess emissions during the course of an event and the increase over normal rates or concentrations as determined by continuous monitoring or best estimate (supported by operating data and calculations);
 - 34.b.vii. The final resolution of the cause of the excess emissions; and
 - 34.b.viii. Where applicable, evidence supporting any claim that emissions in excess of technologybased limits were due to any emergency pursuant to OAR 340-214-0360.
 - 34.c. In the event of any excess emissions which are of a nature that could endanger public health and occur during non-business hours, weekends or holidays, the permittee must immediately notify DEQ by calling the Oregon Emergency Response System (OERS). The current number is 1-800-452-0311.
 - 34.d. If startups, shutdowns or scheduled maintenance may result in excess emissions, the permittee must submit startup, shutdown or scheduled maintenance procedures used to minimize excess emissions to DEQ for prior authorization, as required in OAR 340-214-0310 and 340-214-0320. New or modified procedures must be received by DEQ in writing at least 72 hours prior to the first occurrence of the excess emission event. The permittee must abide by the approved procedures and have a copy available at all times.
 - 34.e. The permittee must notify DEQ of planned startup/shutdown or scheduled maintenance events.
 - 34.f. The permittee must continue to maintain a log of all excess emissions in accordance with OAR 340-214-0340(3). However, the permittee is not required to submit the detailed log with the semiannual and annual monitoring reports. The permittee is only required to submit a brief summary listing the date, time and the affected emissions units for each excess emission that occurred during the reporting period. [OAR 340-218-0050(3)(c)]
- 35. <u>Permit Deviations Reporting</u>: The permittee must promptly report deviations from permit requirements that do not cause excess emissions, including those attributable to upset conditions, as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. "Prompt" means within 15 days of the deviation. Deviations that cause excess emissions, as specified in OAR 340-214-0300 through 340-214-0360 must be reported in accordance with Condition 34.

- 36. All required reports must be certified by a responsible official consistent with OAR 340-218-0040(5). [OAR 340-218-0050(3)(c)(D)]
- 37. Reporting requirements must commence on the date of permit issuance unless otherwise specified in the permit. [OAR 340-218-0050(3)(c)(E)]

Addresses of regulatory agencies are the following, unless otherwise instructed:

DEQ – Eastern Region	DEQ – Air Quality Division	Clean Air Act Compliance Manager
475 NE Bellevue Dr., #110	700 NE Multnomah St., #600	US EPA Region 10, MS: OCE-101
Bend, OR 97701	Portland, OR 97204	1200 Sixth Avenue, Suite 900
541-388-6146	503-229-5359	Seattle, WA 98101

Semi-Annual and Annual Reports

- 38. The permittee must submit three (3) copies of reports of any required monitoring at least every 6 months, completed on forms approved by the Department. Six month periods are January 1 to June 30, and July 1 to December 31. One copy of the report must be submitted to the EPA and two copies to the DEQ regional office. All instances of deviations from permit requirements must be clearly identified in such reports: [OAR 340-218-0050(3)(c)(A) and 340-218-0080(6)(d)]
 - 38.a. The first semi-annual report is due on **July 30** and must include the semi-annual compliance certification, OAR 340-218-0080.
 - 38.b. The annual report is due on **February 15** and must include the following:
 - 38.b.i. The emission fee report; [OAR 340-220-0100]
 - 38.b.ii. A summary of the excess emissions upset log; [OAR 340-214-0340]
 - 38.b.iii. The second semi-annual compliance certification; [OAR 340-218-0080]
 - 38.b.iv. Greenhouse gas emissions report in accordance with OAR 340-215-0030; and
 - 38.b.v. Other annual reporting requirements: [ACDP 09-0040, Condition 7.2]

38.b.v.A.	The annual emissions, calculated monthly for each 12-consecutive calendar month period.
38.b.v.B.	The cumulative amount of MSW within Knott Landfill as of December 31.
38.b.v.C.	The average LFG flow rate at the inlet to the blower serving the flare, calculated monthly for each 12-consecutive calendar month period.
38.b.v.D.	The average concentration of CH_4 at the inlet to the blower serving the flare, calculated monthly for each 12-consecutive calendar month period.
38.b.v.E.	The total volume of CH_4 (actual cubic feet) at the inlet to the blower serving the flare, calculated monthly on a calendar year basis.
38.b.v.F.	The total hours of flare operation, calculated monthly for each 12- consecutive calendar month period.
38.b.v.G.	Annual Greenhouse gas (GHG) emissions as calculated according to Condition 40.

- 39. The semi-annual compliance certification must include the following (provided that the identification of applicable information may cross-reference the permit or previous reports, as applicable): [OAR 340-218-0080(6)(c)]
 - 39.a. The identification of each term or condition of the permit that is the basis of the certification;
 - 39.b. The identification of the method(s) or other means used by the permittee for determining the compliance status with each term and condition during the certification period, and whether such methods or other means provide continuous or intermittent data. Such methods and other means

must include, at a minimum, the methods and means required under OAR 340-218-0050(3). Note: Certification of compliance with the monitoring conditions in the permit is sufficient to meet this requirement, except when the permittee must certify compliance with new applicable requirements that are incorporated by reference into the permit. When certifying compliance with new applicable requirements that are not yet in the permit, the permittee must provide the information required by this condition. If necessary, the permittee must identify any other material information that must be included in the certification to comply with section 113(c)(2) of the FCAA, which prohibits knowingly making a false certification or omitting material information;

- 39.c. The status of compliance with terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification must be based on the method or means designated in Condition 39.b of this rule. The certification must identify each deviation and take it into account in the compliance certification. The certification must also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance, as defined under OAR 340-200-0020, occurred; and
- 39.d. Such other facts as DEQ may require to determine the compliance status of the source.
- 40. <u>Greenhouse Gas Registration and Reporting:</u> If the calendar year emission rate of greenhouse gases (CO₂e) is greater than or equal to 2,756 tons (2,500 metric tons), the permittee must register and report its greenhouse gas emissions with DEQ in accordance with OAR 340-215. The greenhouse gas report must be certified by the responsible official consistent with OAR 340-218-0040(5).
- 41. Notwithstanding any other provision contained in any applicable requirement, the permittee may use monitoring as required under OAR 340-218-0050(3) and incorporated into the permit, in addition to any specified compliance methods, for the purpose of submitting compliance certifications. [OAR 340-218-0080(6)(e)]

NSPS Reporting Requirements

- 42. The permittee must submit an NMOC emission rate report to the Department annually, except as provided in Condition 42.b. [40 CFR 60.757(b)]
 - 42.a. The NMOC emission rate report must contain an annual or 5-year estimate of the NMOC emission rate calculated using the formula and procedures in Condition 16. [40 CFR 60.757(b)(1)]
 - 42.b. If the estimated NMOC emission rate as reported in the annual report to the Department is less than 50 megagrams per year in each of the next five years, the permittee may elect to submit an estimate of the NMOC emission rate for the next 5-year period in lieu of the annual report. This estimate must include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the 5 years for which an NMOC emission rate is estimated. All data and calculations upon which this estimate is based must be provided to the Department. This estimate must be revised at least once every 5 years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the 5-year estimate, a revised 5-year estimate must be submitted to the Department. The revised estimate must cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate. [40 CFR 60.757(b)(1)(ii)]
 - 42.c. The NMOC emission rate report must include all the data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions. [40 CFR 60.757(b)(2)]
 - 42.d. Unless the actual acceptance rate for any year exceeds the estimated acceptance rate provided in the report submitted on October 31, 2013, the next NMOC emission rate report is due as required by Condition 16.b.i and submitted with the following year's annual report required by Condition 38. [40 CFR 60.19(d) and (f)]

42.e. The permittee must submit a closure report to the Department within 30 days of waste acceptance cessation. The Department may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR 258.60. If a closure report has been submitted to the Department, no additional wastes may be placed into the landfill without filing a notification of modification as described in 40 CFR 60.7(a)(4). [40 CFR 60.757(d)]

GENERAL CONDITIONS

G1. General Provision

Terms not otherwise defined in this permit have the meaning assigned to such terms in the referenced regulation.

G2. <u>Reference Materials</u>

Where referenced in this permit, the versions of the following materials are effective as of the dates noted unless otherwise specified in this permit:

- a. Source Sampling Manual; April 16, 2015 State Implementation Plan Volume 3, Appendix A4;
- b. Continuous Monitoring Manual; April 16, 2015 State Implementation Plan Volume 3, Appendix A6; and
- c. All state and federal regulations as in effect on the date of issuance of this permit.

G3. <u>Applicable Requirements [OAR 340-218-0010(3)(b)]</u>

Oregon Title V Operating Permits do not replace requirements in Air Contaminant Discharge Permits (ACDP) issued to the source even if the ACDP(s) have expired. For a source operating under a Title V permit, requirements established in an earlier ACDP remain in effect notwithstanding expiration of the ACDP or Title V permit, unless a provision expires by its terms or unless a provision is modified or terminated following the procedures used to establish the requirement initially. Source specific requirements, including, but not limited to TACT, RACT, BACT, and LAER requirements, established in an ACDP must be incorporated into the Oregon Title V Operating Permit and any revisions to those requirements must follow the procedures used to establish the requirement initially.

G4. <u>Compliance</u> [OAR 340-218-0040(3)(n)(C), 340-218-0050(6), and 340-218-0080(4)]

- a. The permittee must comply with all conditions of this permit. Any permit condition noncompliance constitutes a violation of the Federal Clean Air Act and/or state rules and is grounds for enforcement action; for permit termination, revocation and re-issuance, or modification; or for denial of a permit renewal application. Any noncompliance with a permit condition specifically designated as enforceable only by the state constitutes a violation of state rules only and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- b. Any schedule of compliance for applicable requirements with which the source is not in compliance at the time of permit issuance is supplemental to, and does not sanction noncompliance with the applicable requirements on which it is based.
- c. For applicable requirements that will become effective during the permit term, the source must meet such requirements on a timely basis unless a more detailed schedule is expressly required by the applicable requirement.

G5. Masking Emissions

The permittee must not install or use any device or other means designed to mask the emission of an air contaminant that causes or is likely to cause detriment to health, safety, or welfare of any person or otherwise violate any other regulation or requirement. [OAR 340-208-0400] This condition is enforceable only by the State.

G6. <u>Credible Evidence</u>

Notwithstanding any other provisions contained in any applicable requirement, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any such applicable requirements. [OAR 340-214-0120]

G7. <u>Certification</u> [OAR 340-214-0110, 340-218-0040(5), 340-218-0050(3)(c)(D), and 340-218-0080(2)]

Any document submitted to DEQ or EPA pursuant to this permit must contain certification by a responsible official of truth, accuracy and completeness. All certifications must state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and, complete. The permittee must promptly, upon discovery, report to DEQ a material error or omission in these records, reports, plans, or other documents.

G8. <u>Open Burning</u> [OAR Chapter 340, Division 264]

The permittee is prohibited from conducting open burning, except as may be allowed by OAR 340-264-0020 through 340-264-0200.

G9. <u>Asbestos</u> [40 CFR Part 61, Subpart M (federally enforceable), OAR Chapter 340-248-0005 through 340-248-0180 (state-only enforceable) and 340-248-0205 through 340-248-0280]

The permittee must comply with OAR Chapter 340, Division 248, and 40 CFR Part 61, Subpart M when conducting any renovation or demolition activities at the facility.

G10. Stratospheric Ozone and Climate Protection [40 CFR 82 Subpart F, OAR 340-260-0040]

The permittee must comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, Recycling and Emissions Reduction.

- G11. Permit Shield [OAR 340-218-0110]
 - a. Compliance with the conditions of the permit is deemed compliance with any applicable requirements as of the date of permit issuance provided that:
 - i. Such applicable requirements are included and are specifically identified in the permit, or
 - ii. DEQ, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
 - b. Nothing in this rule or in any federal operating permit alters or affects the following:
 - i. The provisions of ORS 468.115 (enforcement in cases of emergency) and ORS 468.035 (function of department);
 - ii. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - iii. The applicable requirements of the national acid rain program, consistent with section 408(a) of the FCAA; or
 - iv. The ability of DEQ to obtain information from a source pursuant to ORS 468.095 (investigatory authority, entry on premises, status of records).

c. Sources are not shielded from applicable requirements that are enacted during the permit term, unless such applicable requirements are incorporated into the permit by administrative amendment, as provided in OAR 340-218-0150(1)(h), significant permit modification, or reopening for cause by DEQ.

G12. Inspection and Entry [OAR 340-218-0080(3)]

Upon presentation of credentials and other documents as may be required by law, the permittee must allow DEQ, or an authorized representative (including an authorized contractor acting as a representative of the EPA Administrator), to perform the following:

- a. Enter upon the permittee's premises where an Oregon Title V Operating Permit program source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under conditions of the permit;
- c. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- d. As authorized by the FCAA or state rules, sample or monitor, at reasonable times, substances or parameters, for the purposes of assuring compliance with the permit or applicable requirements.
- G13. Fee Payment [OAR 340-220-0010, and 340-220-0030 through 340-220-0190]

The permittee must pay an annual base fee and an annual emission fee for particulates, sulfur dioxide, nitrogen oxides, and volatile organic compounds. The permittee must submit payment to the Department of Environmental Quality, Financial Services, 811 SW 6th Ave., Portland, OR 97204, within 30 days of date DEQ mails the fee invoice or August 1 of the year following the calendar year for which emission fees are paid, whichever is later. Disputes must be submitted in writing to DEQ. Payment must be made regardless of the dispute. User-based fees will be charged for specific activities (e.g., computer modeling review, ambient monitoring review, etc.) requested by the permittee.

- G14. Off-Permit Changes to the Source [OAR 340-218-0140(2)]
 - a. The permittee must monitor for, and record, any off-permit change to the source that:
 - i. Is not addressed or prohibited by the permit;
 - ii. Is not a Title I modification;
 - iii. Is not subject to any requirements under Title IV of the FCAA;
 - iv. Meets all applicable requirements;
 - v. Does not violate any existing permit term or condition; and
 - vi. May result in emissions of regulated air pollutants subject to an applicable requirement but not otherwise regulated under this permit or may result in insignificant changes as defined in OAR 340-200-0020.
 - b. A contemporaneous notification, if required under OAR 340-218-0140(2)(b), must be submitted to DEQ and the EPA.
 - c. The permittee must keep a record describing off-permit changes made at the facility that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those off-permit changes.
 - d. The permit shield of Condition G11 does not extend to off-permit changes.
- G15. Section 502(b)(10) Changes to the Source [OAR 340-218-0140(3)]
 - a. The permittee must monitor for, and record, any section 502(b)(10) change to the source, which is defined as a change that would contravene an express permit term but would not:

- i. Violate an applicable requirement;
- ii. Contravene a federally enforceable permit term or condition that is a monitoring, recordkeeping, reporting, or compliance certification requirement; or
- iii. Be a Title I modification.
- b. A minimum 7-day advance notification must be submitted to DEQ and the EPA in accordance with OAR 340-218-0140(3)(b).
- c. The permit shield of Condition G11 does not extend to section 502(b)(10) changes.
- G16. Administrative Amendment [OAR 340-218-0150]

Administrative amendments to this permit must be requested and granted in accordance with OAR 340-218-0150. The permittee must promptly submit an application for the following types of administrative amendments upon becoming aware of the need for one, but no later than 60 days of such event:

- a. Legal change of the registered name of the company with the Corporations Division of the State of Oregon, or
- b. Sale or exchange of the activity or facility.
- G17. Minor Permit Modification [OAR 340-218-0170]

The permittee must submit an application for a minor permit modification in accordance with OAR 340-218-0170.

G18. Significant Permit Modification [OAR 340-218-0180]

The permittee must submit an application for a significant permit modification in accordance with OAR 340-218-0180

G19. <u>Staying Permit Conditions</u> [OAR 340-218-0050(6)(c)]

Notwithstanding Conditions G16 and G17, the filing of a request by the permittee for a permit modification, revocation and re-issuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

G20. Construction/Operation Modification [OAR 340-218-0190]

The permittee must obtain approval from DEQ prior to construction or modification of any stationary source or air pollution control equipment in accordance with OAR 340-210-0200 through OAR 340-210-0250.

G21. New Source Review Modification [OAR 340-224-0010]

The permittee may not begin construction of a major source or a major modification of any stationary source without having received an Air Contaminant Discharge Permit (ACDP) from DEQ and having satisfied the requirements of OAR 340, Division 224.

G22. Need to Halt or Reduce Activity Not a Defense [OAR 340-218-0050(6)(b)]

The need to halt or reduce activity will not be a defense. It will not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

G23. Duty to Provide Information [OAR 340-218-0050(6)(e) and OAR 340-214-0110]

The permittee must furnish to DEQ, within a reasonable time, any information that DEQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the permittee must also furnish to DEQ copies of records required to be retained by the permit or, for information claimed to be confidential, the permittee may furnish such records to DEQ along with a claim of confidentiality.

- G24. <u>Reopening for Cause</u> [OAR 340-218-0050(6)(c) and 340-218-0200]
 - a. The permit may be modified, revoked, reopened and reissued, or terminated for cause as determined by DEQ.
 - b. A permit must be reopened and revised under any of the circumstances listed in OAR 340-218-0200(1)(a).
 - c. Proceedings to reopen and reissue a permit must follow the same procedures as apply to initial permit issuance and affect only those parts of the permit for which cause to reopen exists.
- G25. Severability Clause [OAR 340-218-0050(5)]

Upon any administrative or judicial challenge, all the emission limits, specific and general conditions, monitoring, recordkeeping, and reporting requirements of this permit, except those being challenged, remain valid and must be complied with.

G26. Permit Renewal and Expiration [OAR 340-218-0040(1)(a)(D) and 340-218-0130]

- a. This permit expires at the end of its term, unless a timely and complete renewal application is submitted as described below. Permit expiration terminates the permittee's right to operate.
- b. Applications for renewal must be submitted at least 12 months before the expiration of this permit, unless DEQ requests an earlier submittal. If more than 12 months is required to process a permit renewal application, DEQ must provide no less than six (6) months for the owner or operator to prepare an application.
- c. Provided the permittee submits a timely and complete renewal application, this permit will remain in effect until final action has been taken on the renewal application to issue or deny the permit.
- G27. Permit Transference [OAR 340-218-0150(1)(d)]

The permit is not transferable to any person except as provided in OAR 340-218-0150(1)(d).

G28. Property Rights [OAR 340-200-0020 and 340-218-0050(6)(d)]

The permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations, except as provided in OAR 340-218-0110.

G29. Permit Availability [OAR 340-200-0020 and 340-218-0120(2)]

The permittee must have available at facility at all times a copy of the Oregon Title V Operating Permit and must provide a copy of the permit to DEQ or an authorized representative upon request.

ALL INQUIRIES SHOULD BE DIRECTED TO: Eastern Region-Bend Office 475 NE Bellevue Dr., Suite 110 Bend, OR 97701 541-388-6146