



H.B. Case No.: 2021-12-M1

Petitioner: Mustang Renewable Power Ventures, LLC

Permit No.: 14500-05

Date Rec'd: October 3, 2022

Time Rec'd: 1525 hours

Filing Fee Paid: \$686.00

PETITION FOR VARIANCE

Type of Variance Requested:

Emergency _____ Interim¹ _____ 90-Day _____ Regular X

Length of Variance Requested: Start Date 10/15/2022

End Date 10/14/2023

¹ A 90-Day or Regular Variance must be filed concurrently with an Interim Variance

1. PETITIONER INFORMATION

A. Please provide the name, address and phone number of the Petitioner.

Name: John Dewey
Address: 17 Corporate Plaza Drive, Suite 200
Newport Beach, CA 92660
Phone Number: (805) 259-9499

B. Please provide the name, address and phone number of the person authorized to receive correspondence regarding this Petition if different from response in 1.A.

Name: _____
Address: _____

Phone Number: _____

C. The Petitioner is (please check one):

- 1) An Individual ()
- 2) Partnership ()
- 3) Corporation (X)
- 4) Public Agency ()
- 5) Other Entity (please describe)

2. Location of equipment for which the variance is requested if different from response in 1.A.

14470 Calle Real-MRF, Goleta, CA 93117

3. List any District permits that are applicable to the equipment subject to this variance request.

ATC 14500-05

4. Briefly describe the equipment that is the subject of this Petition.

Tipping Area Baghouse (Device No. 388339), Materials Sorting Area (Device No. 388344), Tipping Area Biofilter (Device No. 388341), Materials Sorting Area Biofilter (Device No. 388346), Tipping Area Biofilter Scrubber (Device No. 388799), and Materials Sorting Area Biofilter Scrubber (Device No. 388797).

5. FINDINGS REQUIRED FOR THE GRANTING OF A VARIANCE

In order for the Hearing Board to grant a variance to a Petitioner authorizing the operation of a source in violation of any rule, regulation or order of the District, the Hearing Board is required to make “findings” in accordance with the requirements specified in California Health and Safety Code §42352, et. seq. and District rules and regulations. The Hearing Board’s variance decision will take into consideration information you provide in this Petition. Please ensure your responses are complete and thorough. Please use additional pages as necessary.

A. Please state 1) what District rule, regulation or order you either are or will be in violation of, and 2) the date said violation will or did occur. Include as appropriate the applicable permit conditions for which variance relief is being sought.

6. ATC 14500-05, Section 9.C.1.b.vii, Section 9.C.2.b.iii, Sections 9.C.4.a.i through 9.C.4.a.iii., Section 9.C.4.a.v., Section 9.C.4.a.vi., Section 9.C.4.a.viii., Section 9.C.4.a.x., Section 9.C.4.a.xi., Sections 9.C.4.b.i through 9.C.4.b.iii, Sections 9.C.4.c.i through 9.C.4.c.iii, Section 9.C.5.b.i. through 9.C.5.b.iii., Section 9.C.5.b.v., Section 9.C.5.b.vi., Section 9.C.5.b.viii., Section 9.C.5.b.xi., Section 9.C.5.b.xii., Section 9.C.5.c.i., Section 9.C.5.c.ii., Section 9.C.5.c.iv., Section 9.C.5.d.i., Section 9.C.5.d.ii., Section 9.C.5.d.v., Sections 9.C.6.a.i. through 9.C.6.a.iv., Sections 9.C.6.b.i. through 9.C.6.b.iii., Sections 9.C.6.c.i. through 9.C.6.c.iii. Section C.33 .a., and 9.C.33.f of Authority to Construct 14500-05.

- B. Please describe how compliance with the District rule, regulation or order listed in Section A above is beyond your reasonable control. In addition to any other relevant factors, please include in your discussion 1) what actions you have taken to comply or seek a variance, which were timely and reasonable under the circumstances.

Due to the Alisal Fire, there was a complete loss of the MRF Biofilter woodchip media, all three biofilter acid scrubbers and the Materials Sorting Area biofilter scrubber acid storage tank. Additionally, the 2 MRF baghouse filters are not operational due to the melting of the baghouse filter fans from the heat of the fire. Repairs and/or replacement of the previously installed biofilter are beyond Petitioner's reasonable control as the entire ReSource Center facility is owned and insured by Santa Barbara County. Petitioner is a Contractor to the County responsible for the operations of the facility and has not been provided a budget to rebuild the MRF Biofilter as it has been deemed not necessary for Best Available Control Technology (BACT) pursuant to feedback provided to the Petitioner by District Engineering staff in connection with a pending modification (i.e., ATC 14500-10) to the facilities ATC-14500-05. District Engineering staff agreed with Petitioner's air quality consultant, AECOM, that the weekly MRF indoor air monitoring results since November 2021 have demonstrated that the levels of H₂S and NH₃ in the ambient air were less than an average of 3-5% of the post biofilter control required levels.

- C. Please describe how you would be impacted if you were required to immediately comply with the District rule, regulation or order the subject of this variance request. In addition to any other relevant factors, please discuss why such impacts would result in 1) an arbitrary or unreasonable taking of property, or 2) the practical closing and elimination of a lawful business.

The main purpose of the scrubbers is to remove ammonia from MRF indoor air prior to passing through the biofilter media. The average ammonia concentration at the biofilter media surface on 9/7/2021, prior to the start of the requested variance date, was 0.4 ppmv vs. the permit limit of 5.0 ppmv (14500-02, Table 4.7). The average ammonia concentrations at the biofilter media surface on 9/10/2021 and 9/15/2021 was 0.25 ppmv even without the operation of the scrubbers. In other words, ammonia concentrations in the MRF indoor air are near zero as the municipal solid waste is processed through the MRF within a few hours of receipt at the tip floor avoiding conditions where ammonia could be generated. Due to the loss of the Materials Sorting Area biofilter scrubber and baghouse filter fan and Tipping Area biofilter scrubber and baghouse filter fan, immediate operation of the equipment is not possible until the completion of repairs, replacement and restoration of the fire damaged emission control devices listed above.

- D. If you were required to immediately comply with the District rule, regulation or order the subject of this variance request, please describe what impact, if any, that would have on air contaminants.

The air contaminant (ammonia) level is 95% below permit levels while we continued to operate without the MRF processing area scrubbers operating. Due to the loss of the baghouse filter fans there may be PM emissions attributed to the processing of the recyclables in the MRF. We intend to monitor the indoor air quality and MRF building emissions of H₂S, NH₃ and PM on a weekly basis for the duration of the repair, replacement and restoration process.

- E. Please describe what consideration you have given to curtailing operations in lieu of obtaining a variance.

The County ceased Landfill operations and MSB/MarBorg ceased operations of the MRF and ADF on Monday afternoon, October 11th when all personnel were ordered to evacuate. Landfill operations recommenced on October 25th after a 2-week shutdown following completion of repairs and replacement to fire damaged systems and equipment. The MRF also recommenced its operations on a coordinated basis with the Landfill as of October 25th when it was determined safe to do so.

The MRF operations remain critical and necessary waste infrastructure as it sorts and recovers recyclable commodities and organic waste to reduce the volume of material landfilled by ~60%. During the two-week October 2021 shutdown of the Landfill and the MRF, waste normally processed at the MRF with residue disposed at the Tajiguas Landfill was exported to remote landfills, contrary to various CalRecycle regulations mandating recycling and organic waste diversion from landfilling. While the MRF was shut down, waste was trucked to alternative sorting facilities in Ventura County, increasing the cost materially to ratepayers and contributing adversely to air quality and traffic impacts with numerous trucks added to US 101 congestion. If MRF operations were curtailed on a long-term basis, the cost to ratepayers would be estimated at a cost of more than \$20 million annually (200,000 tons per year at a cost to transport to and process at an alternative location at ~100/ton). Current employment at the MRF is ~80 employees with an annual payroll estimated at ~\$5 million. Long-term curtailment of operations was not a consideration as the financial and environmental impacts to the County ratepayers would have been prohibitive.

- F. Please describe what steps and measures you will take to reduce excess pollutant emissions the maximum extent feasible during the requested variance period.

When the MRF resumed operations as of October 25th, 2021, it continued to reduce potential emissions of H₂S and NH₃ by processing all MSW and the related organics through the MRF with immediate transport to the ADF for processing. The potential for H₂S, NH₃ and PM emissions has been and will continue to be monitored weekly until the MRF related baghouse filters are replaced, repaired and restored.

- G. If requested to do so by the District, please describe how you will monitor or otherwise quantify and report to the District any pollutant emissions associated with the granting of your variance.

Indoor air monitoring for the past nearly 12 months has confirmed that ammonia and hydrogen sulphide concentrations inside the MRF are ~80-95% below the permit limits of the MRF Biofilter surface emissions of 5 ppmv. The current monitoring frequency (weekly) provides an adequate understanding of continued compliance with ammonia and hydrogen sulfide emissions limits.

H.. Why is additional coverage necessary?

It has taken the past 12 months for Petitioner and its air quality consultant, AECOM, in coordination with County Public Works staff completing a CEQA memorandum related to the alternative of rebuilding the MRF baghouse filters without replacing the MRF Biofilter, to work with District Engineering staff to complete a permit modification (ATC 14500-10) for the proposed baghouse filter repairs and replacement without the replacement of the MRF Biofilter. As of this date, the ATC 14500-10 permit modification has not yet been granted. Hopefully it and the related CEQA memo will be concluded prior to December 31, 2022. The ATC 145001-10 permit modification is nearly complete, as is the CEQA analysis, which must then be presented to the Board of Supervisors for approval before a 4-month construction process can be commenced for the repairs.

6. **SUPPLEMENTAL FINDINGS IF APPLYING FOR AN EMERGENCY VARIANCE
PURSUANT TO RULE 506 (EMERGENCY VARIANCE FOR BREAKDOWNS)**

A. Please provide the date and time the breakdown was reported to the District

Date: 10/12/2021 Time: 12:00 a.m.

B. Breakdown number (as provided by the District):

C. Please provide a description of the "breakdown condition", including equipment involved and the cause to the extent it is known.

The MRF biofilter, biofilter acid scrubbers and Materials Sorting Area biofilter scrubber acid storage tank have been destroyed by the recent Alisal Fire. The Tipping Area Baghouse filter fan and Materials Sorting Area Baghouse filters fans have also been damaged.

D. Please describe why the continued operation of your facility in a "breakdown condition" is not likely to cause an immediate threat or hazard to public health or safety and will not interfere with the attainment or maintenance of any primary national ambient air quality standard.

The operating conditions of the MRF are similar to MarBorg's downtown operations which have operated continuously for more than 10 years without any significant air quality impacts even while operating without any baghouse filters, scrubbers or biofilters.

7. Will the operation of the equipment subject to this variance result in violation of District Rule 303, Nuisance?

No.

8. Please state whether or not any civil or criminal case involving the equipment subject to this variance is pending any court.

No civil or criminal cases are pending involving the equipment subject to this variance.

The undersigned is authorized to submit the above Petition on behalf of the Petitioner and further states under penalty of perjury that the above Petition, including any attachments and the items therein set forth, are true and correct.

DATE: 11/09/2022

SIGNATURE: 

TITLE: CEO

PRINT NAME: John Dewey

Variance Filing Fees: All variance Petitions must be accompanied by the requisite filing fee at the time of filing or include a letter from the Petitioner on company letterhead authorizing the District to debit the filing fee from the company's reimbursable account. You may also pay your filing fees by credit card using the attached form. Current variance filing fees may be found under Rule 210, schedule F, Sections 12a and 12b at <http://www.sbcapcd.org/fees.htm>

Credit Card Payment: The Variance Filing Fee may be paid with a credit card. Please use APCD Form -01C to pay via credit card. The form may be downloaded at: <http://www.sbcapcd.org/eng/dl/dl01.htm>

ATC Mod 14500-05 Condition	In Old Variances?	Permit Condition Language	Notes/Clarifications
9.C.1.b.vi	Yes	vi. <i>Tipping Area Exhaust:</i> All tipping area room exhaust shall be vented to the tipping area baghouse whenever MSW or CSSR are being handled.	Variance might be incorrectly referencing condition 9.C.1.b.vii instead of this condition. If so, update petition to reference condition 9.C.1.b.vi. If not, revise petition to add this condition.
9.C.1.b.vii	No (new condition)	vii. <i>Sweeper Hours:</i> Sweepers in the tipping area shall only operate between the hours of 11 am and 5 pm.	Correct as needed based on comment above.
9.C.2.b.iii	Yes (2021-11-I and 2021-12-R)	iii. <i>Materials Sorting Area Exhaust:</i> All materials sorting area room exhaust shall be vented to the materials sorting area baghouse whenever MSW or CSSR are being handled.	
9.C.4.a.i	Yes (2021-11-I and 2021-12-R)	i. <i>Operational Restrictions:</i> The permittee shall not accept or handle MSW or CSSR in the tipping area or materials sorting area when their respective baghouses are not in operation. The permittee shall not process wet paper products in the rolling bed dryer when the paper recycling baghouse is not in operation.	
9.C.4.a.ii	Yes (2021-11-I and 2021-12-R)	ii. <i>Tipping Area Baghouse Pressure Drop:</i> Except during startup operations as defined below, the tipping area baghouse shall operate within a pressure drop range of 0.5" to 6" water column measured across the baghouse. If the pressure drop falls outside the permitted range, immediate corrective action shall be taken return the pressure drop to the permitted range. Startup operations begin with powering up the exhaust blower associated with the baghouse and end with the pressure drop across the baghouse reaching steady state or when the elapsed time since powering up reaches 3 hours, whichever is sooner.	
9.C.4.a.iii	Yes (2021-11-I and 2021-12-R)	iii. <i>Material Sorting Baghouse Pressure Drop:</i> Except during startup operations as defined below, the material sorting area baghouse shall operate within a pressure drop range of 0.5" to 6" water column measured across the baghouse. If the pressure drop falls outside the permitted range, immediate corrective action shall be taken return the pressure drop to the permitted range. Startup operations begin with powering up the exhaust blower associated with the baghouse and end with the pressure drop across the baghouse reaching steady state or when the elapsed time since powering up reaches 3 hours, whichever is sooner.	
9.C.4.a.v	Yes (2021-11-I and 2021-12-R)	v. <i>Tipping Area Baghouse Air Flow Rate:</i> The tipping area baghouse exhaust air flow shall not exceed 52,000 scfm.	
9.C.4.a.vi	Yes (2021-11-I and 2021-12-R)	vi. <i>Materials Sorting Area Baghouse Air Flow Rate:</i> The materials sorting area baghouse exhaust air flow shall not exceed 55,022 scfm.	
9.C.4.a.viii	Yes (2021-11-I and 2021-12-R)	viii. <i>Tipping Area and Materials Sorting Area Baghouse Operational Limits:</i> The tipping area and materials sorting area baghouses each shall not exceed 24 hours/day and 8,322 hours/year of operations.	
9.C.4.a.x	Yes (2021-11-I and 2021-12-R)	x. <i>Bags:</i> The bags in each baghouse shall be maintained as to not exhibit any tears, perforations, or other defects that would allow unfiltered material to bypass the bags. The bags shall be free of excessive caked material and allow sufficient air flow through them.	Add a note in the variance petition that relief is only sought for Tipping Area Baghouse (Device ID: 388339) and Materials Sorting Area Baghouse (Device ID: 388344).
9.C.4.a.xi	Yes (2021-11-I and 2021-12-R)	xi. <i>Baghouse Exhaust:</i> All tipping area and materials sorting area baghouse exhaust shall be vented to a biofilter.	

9.C.4.b.i	Yes (2021-11-I and 2021-12-R)	i. <i>Pressure Drop:</i> The permittee shall install and maintain District-approved electronic pressure meters and recording systems to measure the inlet and outlet pressures of each baghouse. The differential pressures shall be continuously measured and recorded. The pressure meters shall be accurate to within 5 percent of the full scale reading. The pressure meters and recording systems shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and the calibration records shall be made available to the District upon request.	Add a note in the variance petition that relief is only sought for Tipping Area Baghouse (Device ID: 388339) and Materials Sorting Area Baghouse (Device ID: 388344).
9.C.4.b.ii	Yes (2021-11-I and 2021-12-R)	ii. <i>Air Flow Rate:</i> The permittee shall install and maintain District-approved electronic flowrate meters and recording systems to measure the inlet flowrate of each baghouse. The flowrates shall be continuously measured and recorded. The flowrate meters shall be accurate to within 5 percent of the full scale reading. The flowrate meters and recording systems shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and the calibration records shall be made available to the District upon request.	Add a note in the variance petition that relief is only sought for Tipping Area Baghouse (Device ID: 388339) and Materials Sorting Area Baghouse (Device ID: 388344).
9.C.4.b.iii	Yes (2021-11-I and 2021-12-R)	iii. <i>Bags:</i> The permittee shall check the bags in the baghouses for rips and tears on a calendar weekly basis. Any ripped or torn bag shall be repaired or replaced before commencing operations.	Add a note in the variance petition that relief is only sought for Tipping Area Baghouse (Device ID: 388339) and Materials Sorting Area Baghouse (Device ID: 388344).
9.C.4.c.i	Yes (2021-11-I and 2021-12-R)	i. <i>Pressure Drop:</i> The permittee shall continuously record the differential pressure across the baghouses. The permittee shall record the date and time of each excursion from the permitted differential pressure range, the cause of each excursion, the corrective action taken, and the date and time that the differential pressure was returned to the permitted range.	Add a note in the variance petition that relief is only sought for Tipping Area Baghouse (Device ID: 388339) and Materials Sorting Area Baghouse (Device ID: 388344).
9.C.4.c.ii	Yes (2021-11-I and 2021-12-R)	ii. <i>Air Flow Rate:</i> The permittee shall continuously record the flowrate from the baghouse inlets. The permittee shall record the dates and times of each excursion from the permitted maximum flowrate, the cause of each excursion, the corrective action taken, and the date and time that the flowrate was returned to below the permitted maximum value.	Add a note in the variance petition that relief is only sought for Tipping Area Baghouse (Device ID: 388339) and Materials Sorting Area Baghouse (Device ID: 388344).
9.C.4.c.iii	Yes (2021-11-I and 2021-12-R)	iii. <i>Maintenance Records:</i> The permittee shall maintain baghouse maintenance records that include the baghouse malfunctions and maintenance activities. The log shall include a malfunction summary specifying: <ol style="list-style-type: none"> 1. Date of malfunction or preventive maintenance activity. 2. Description of activity. 3. Date and time taken to remedy the malfunction or perform maintenance. Monitoring and recording this information does not fulfill breakdown reporting required by Rule 505 or Rule 1305.	Add a note in the variance petition that relief is only sought for Tipping Area Baghouse (Device ID: 388339) and Materials Sorting Area Baghouse (Device ID: 388344).
9.C.5.b.i	Yes (2021-11-I and 2021-12-R)	i. <i>Operational Restrictions:</i> The permittee shall not accept or handle MSW or CSSR in the tipping area or materials sorting area when the associated biofilters are not in operation. The permittee shall not accept or handle food waste, green waste, or digestate in the ADF when the ADF biofilter is not in operation. Biofilters are considered to be operational as long as half of the cells are abating the exhaust sent to the filter.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346)
9.C.5.b.ii	Yes (2021-11-I and 2021-12-R)	ii. <i>Tipping Area Biofilter Inlet Flowrate:</i> The inlet flowrate to the tipping area biofilter shall not exceed 52,000 scfm.	
9.C.5.b.iii	Yes (2021-11-I and 2021-12-R)	iii. <i>Materials Sorting Area Biofilter Inlet Flowrate:</i> The inlet flowrate to the materials sorting area biofilter shall not exceed 55,022 scfm.	

9.C.5.b.v	Yes (2021-11-I and 2021-12-R)	v. <i>Tipping Area Inlet Temperature:</i> The temperature of the tipping area biofilter inlet stream shall not exceed 105 °F.	
9.C.5.b.vi	Yes (2021-11-I and 2021-12-R)	vi. <i>Materials Sorting Area Inlet Temperature:</i> The temperature of the materials sorting area biofilter inlet stream shall not exceed 105 °F.	
9.C.5.b.viii	Yes (2021-11-I and 2021-12-R)	viii. <i>Biofilter Media Moisture Content:</i> The permittee shall maintain biofilter media moisture content between 40 and 60 percent.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).
9.C.5.b.ix	No	ix. <i>Sulfur Control Efficiency:</i> The biofilters shall control sulfur (as H ₂ S) emissions by 95 percent at all times. Compliance with this condition shall be based on source testing.	Recommend adding this condition to the variance petition and adding a note in the variance petition that relief is only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).
9.C.5.b.xi	Yes (2021-11-I and 2021-12-R)	xi. <i>Biofilter Subsurface Hydrogen Sulfide:</i> The hydrogen sulfide concentration at each biofilter subsurface shall not exceed 1 ppmv averaged over 10 points. Compliance with this condition shall be based on the monitoring conditions of this permit.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).
9.C.5.b.xii	Yes (2021-11-I and 2021-12-R)	xii. <i>Biofilter Subsurface Ammonia:</i> The ammonia concentration at each biofilter subsurface shall not exceed 5 ppmv @ 15% O ₂ averaged over 10 points. Compliance with this condition shall be based on the monitoring conditions of this permit.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).
9.C.5.b.xiii	No	xii. <i>Biofilter Subsurface Ammonia:</i> The ammonia concentration at each biofilter subsurface shall not exceed 5 ppmv @ 15% O ₂ averaged over 10 points. Compliance with this condition shall be based on the monitoring conditions of this permit.	Recommend adding this condition to the variance petition and adding a note in the variance petition that relief is only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).
9.C.5.b.xv	No	xv. <i>Uniform Inlet Air Flowrate:</i> The permittee shall ensure that the inlet air flowrate to each cell of biofilters is uniform. Compliance with this condition shall be based on source testing.	Recommend adding this condition to the variance petition and adding a note in the variance petition that relief is only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).
9.C.5.c.i	Yes (2021-11-I and 2021-12-R)	i. <i>Inlet Flowrate:</i> The permittee shall install and maintain District-approved electronic flowrate meters and recording systems to measure the inlet flowrate of each biofilter. The flowrates shall be continuously measured and recorded. The flowrate meters shall be accurate to within 5 percent of the full-scale reading. The flowrate meters and recording systems shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and the calibration records shall be made available to the District upon request.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).
9.C.5.c.ii	Yes (2021-11-I and 2021-12-R)	ii. <i>Inlet Temperature:</i> The permittee shall install and maintain District-approved electronic temperature measuring and recording systems to measure the inlet temperatures of each biofilter. The temperatures shall be continuously measured and recorded. The temperature meters shall be accurate to within 5 percent of the full-scale reading. The temperature measuring and recording systems shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and the calibration records shall be made available to the District upon request.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).

9.C.5.c.iv	Yes (2021-11-I and 2021-12-R)	iv. <i>Biofilter Media Replacement Hydrogen Sulfide Measurements:</i> When a biofilter is shutdown for media replacement, perimeter hydrogen sulfide monitoring shall be conducted downwind of the biofilter in the direction of the closest offsite receptor at least once every 4 hours from 6:30 am to 4 pm (otherwise on call) using a District-approved meter. Monitoring shall be conducted until the biofilter is in operation.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346)
9.C.5.c.v	Yes (2021-11-I and 2021-12-R)	v. <i>Biofilter Water System:</i> The permittee shall conduct daily inspections of each biofilter water spray system and water pump to ensure the equipment is properly operating and maintaining the biofilter media sufficiently moist.	Recommend adding this condition to the variance petition and adding a note in the variance petition that relief is only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).
9.C.5.c.vi	Yes (2021-11-I and 2021-12-R)	vi. <i>Biofilter Media Surface Inspections:</i> The permittee shall conduct daily inspections to ensure that each biofilter media surface does not contain any openings or excessive vegetation.	Recommend adding this condition to the variance petition and adding a note in the variance petition that relief is only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).
9.C.5.c.vii	Yes (2021-11-I and 2021-12-R)	vii. <i>Biofilter Subsurface Moisture Monitoring:</i> On a calendar weekly basis, the permittee shall measure each biofilter subsurface media moisture content using a District-approved moisture sensor at a location of at least 6 inches of depth into the biofilter, at a minimum of 5 locations. The moisture sensor shall be calibrated prior to each monitoring event.	Recommend adding this condition to the variance petition and adding a note in the variance petition that relief is only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).
9.C.5.c.viii	Yes (2021-11-I and 2021-12-R)	viii. <i>Biofilter Surface Hydrogen Sulfide Monitoring:</i> The hydrogen sulfide concentration at each biofilter surface shall be monitored on a calendar weekly basis using colorimetric detection tubes or a District-approved equivalent. The measured hydrogen sulfide concentration shall not exceed 1 ppmv averaged over a minimum of 10 points. If any exceedances are measured, the permittee shall take the following actions:	Recommend adding this condition to the variance petition and adding a note in the variance petition that relief is only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).
9.C.5.c.ix	Yes (2021-11-I and 2021-12-R)	ix. <i>Biofilter Surface Ammonia Monitoring:</i> The ammonia concentration at each biofilter surface shall be monitored on a calendar weekly basis using colorimetric detection tubes or a District-approved equivalent. The measured ammonia concentration shall not exceed 5 ppmv @ 15% O ₂ averaged over a minimum of 10 points on the surface of a biofilter. If any exceedances are measured, the permittee shall take the following actions:	Recommend adding this condition to the variance petition and adding a note in the variance petition that relief is only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).
9.C.5.d.i	Yes (2021-11-I and 2021-12-R)	i. <i>Inlet Flowrate:</i> The permittee shall continuously record the flowrates from the biofilter inlets. The permittee shall record the dates and times of each excursion from the permitted maximum flowrates, the cause of each excursion, the corrective action taken, and the date and time that the flowrate was returned to below the permitted maximum value.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).
9.C.5.d.ii	Yes (2021-11-I and 2021-12-R)	ii. <i>Inlet Temperature:</i> The permittee shall continuously record the temperature of the biofilter inlets. The permittee shall record the date and time of each excursion from the permitted maximum temperatures, the cause of each excursion, the corrective action taken, and the date and time that the temperature was returned to below the permitted maximum value.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).
9.C.5.d.v	Yes (2021-11-I and 2021-12-R)	v. <i>Biofilter Water System:</i> The permittee shall record all corrective actions taken as a result of the daily biofilter water spray system and water pumps inspections.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).

9.C.5.d.vi	Yes (2021-11-I and 2021-12-R)	vi. <i>Biofilter Media Surface Inspections:</i> The permittee shall record all corrective actions taken as a result of the daily biofilter media surface inspections.	Recommend adding this condition to the variance petition and adding a note in the variance petition that relief that only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).
9.C.5.d.vii	Yes (2021-11-I and 2021-12-R)	vii. <i>Biofilter Subsurface Moisture Monitoring:</i> The permittee shall record the results of the calendar weekly biofilter media moisture content measurements and if the media moisture content was in the permitted range. All corrective actions taken as a result of the weekly measurements shall be recorded including the re-test dates, location of exceedances, and re-test results.	Recommend adding this condition to the variance petition and adding a note in the variance petition that relief that only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).
9.C.5.d.viii	Yes (2021-11-I and 2021-12-R)	viii. <i>Biofilter Surface Hydrogen Sulfide Monitoring:</i> The permittee shall record the results of the calendar weekly biofilter surface hydrogen sulfide measurements, if the average of the measurements was below 1 ppmv, and if any single reading exceeded 5 ppmv. All corrective actions taken as a result of the calendar weekly measurements shall be recorded including the re-test dates, location of exceedances, and re-test results.	Recommend adding this condition to the variance petition and adding a note in the variance petition that relief that only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).
9.C.5.d.ix	Yes (2021-11-I and 2021-12-R)	ix. <i>Biofilter Surface Ammonia Monitoring:</i> The permittee shall record the results of the calendar weekly biofilter surface ammonia measurements, if the average of the measurements was below 5 ppmv @ 15% O ₂ , and if any single reading exceeded 20 ppmv @ 15% O ₂ . All corrective actions taken as a result of the calendar weekly measurements shall be recorded including the re-test dates, location of exceedances, and re-test results.	Recommend adding this condition to the variance petition and adding a note in the variance petition that relief that only sought for Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).
9.C.6.a.i	Yes (2021-10-I, 2021-11-I and 2021-12-R)	i. <i>Operational Restrictions:</i> The permittee shall not accept or handle MSW or CSSR in the tipping area or materials sorting area when the associated biofilter scrubbers are not in operation. The permittee shall not accept or handle food waste, green waste, or digestate in the ADF when the ADF biofilter scrubbers are not in operation. Anaerobic digesters that have been loaded with material may continue the digestion process when the ADF biofilter is down. However, no new material may be loaded into the digesters when the ADF biofilter is down.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter Scrubber (Device ID: 388799) and Materials Sorting Area Biofilter Scrubbers (Device ID: 388797).
9.C.6.a.ii	Yes (2021-10-I, 2021-11-I and 2021-12-R)	ii. <i>Recirculation Water pH:</i> The permittee shall maintain the pH of the recirculated water in each biofilter scrubber between 4 and 7.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter Scrubber (Device ID: 388799) and Materials Sorting Area Biofilter Scrubbers (Device ID: 388797).
9.C.6.a.iii	Yes (2021-10-I, 2021-11-I and 2021-12-R)	iii. <i>Recirculating Flow:</i> The permittee shall maintain the water recirculating flowrate for each biofilter scrubber between 12 and 14 gallons per minute.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter Scrubber (Device ID: 388799) and Materials Sorting Area Biofilter Scrubbers (Device ID: 388797).
9.C.6.a.iv	Yes (2021-10-I, 2021-11-I and 2021-12-R)	iv. <i>Pressure Drop:</i> The permittee shall maintain each biofilter scrubber pressure drop between 1.2" and 3.2" water column.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter Scrubber (Device ID: 388799) and Materials Sorting Area Biofilter Scrubbers (Device ID: 388797).
9.C.6.b.i	Yes (2021-10-I, 2021-11-I and 2021-12-R)	i. <i>Operational Restrictions:</i> The permittee shall not accept or handle MSW or CSSR in the tipping area or materials sorting area when the associated biofilter scrubbers are not in operation. The permittee shall not accept or handle food waste, green waste, or digestate in the ADF when the ADF biofilter scrubbers are not in operation. Anaerobic digesters that have been loaded with material may continue the digestion process when the ADF biofilter is down. However, no new material may be loaded into the digesters when the ADF biofilter is down.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter Scrubber (Device ID: 388799) and Materials Sorting Area Biofilter Scrubbers (Device ID: 388797).

9.C.6.b.ii	Yes (2021-10-I, 2021-11-I and 2021-12-R)	ii. <i>Recirculation Water Flowrate:</i> The permittee shall install and maintain District-approved electronic flowrate meters and recording systems to measure the biofilter scrubber recirculation water flowrates. The recirculation water flowrates shall be continuously measured and recorded. The recirculation water flowrate meters shall be accurate to within 5 percent of the full scale reading. The recirculation water flowrate measuring and recording systems shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and the calibration records shall be made available to the District upon request.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter Scrubber (Device ID: 388799) and Materials Sorting Area Biofilter Scrubbers (Device ID: 388797).
9.C.6.b.iii	Yes (2021-10-I, 2021-11-I and 2021-12-R)	iii. <i>Pressure Drop:</i> The permittee shall install and maintain District-approved electronic pressure meters and recording system to measure the inlet and outlet pressures of the biofilter scrubbers. The differential pressures shall be continuously measured and recorded. The pressure meters shall be accurate to within 5 percent of the full scale reading. The pressure meters and recording systems shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and the calibration records shall be made available to the District upon request.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter Scrubber (Device ID: 388799) and Materials Sorting Area Biofilter Scrubbers (Device ID: 388797).
9.C.6.c.i	Yes (2021-10-I, 2021-11-I and 2021-12-R)	i. <i>Recirculation Water pH:</i> The permittee shall continuously record the pHs of the biofilter scrubber recirculation water. The permittee shall record the date and time of each excursion from the permitted pH range, the cause of each excursion, the corrective action taken, and the date and time that the pH was returned to the permitted range.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter Scrubber (Device ID: 388799) and Materials Sorting Area Biofilter Scrubbers (Device ID: 388797).
9.C.6.c.ii	Yes (2021-10-I, 2021-11-I and 2021-12-R)	ii. <i>Recirculation Water Flowrate:</i> The permittee shall continuously record the recirculation water flowrates for each biofilter scrubber. The permittee shall record the dates and times of each excursion from the permitted maximum recirculation water flowrate, the cause of each excursion, the corrective action taken, and the date and time that the recirculation water flowrate was returned to below the permitted maximum value.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter Scrubber (Device ID: 388799) and Materials Sorting Area Biofilter Scrubbers (Device ID: 388797).
9.C.6.c.iii	Yes (2021-10-I, 2021-11-I and 2021-12-R)	iii. <i>Pressure Drop:</i> The permittee shall continuously record the differential pressures across the each biofilter scrubber. The permittee shall record the date and time of each excursion from the permitted differential pressure range, the cause of each excursion, the corrective action taken, and the date and time that the differential pressure was returned to the permitted range.	Add a note in the variance petition that relief is only sought for Tipping Area Biofilter Scrubber (Device ID: 388799) and Materials Sorting Area Biofilter Scrubbers (Device ID: 388797).

9.C.18	No	<p>C.18 Source Testing. The source testing provisions listed below shall apply:</p> <p>a. The permittee shall conduct source testing of air emissions and process parameters listed in Table 4.5 through Table 4.11 of this permit. The ADF CHP engines, ADF enclosed flare (purging and engine offline), MRF enclosed flare, MRF CHP engines, tipping area biofilter, materials sorting area biofilter, ADF biofilter, and windrows shall be source tested not less than once every 12 months based on the date of the previous source test.</p> <p>The HAP emissions source testing for an ADF CHP engine, ADF enclosed flare (purging and engine offline), MRF enclosed flare, ADF biofilter, and windrows shall be conducted upon equipment start up and upon written District request thereafter.</p> <p>The ADF CHP engines, ADF enclosed flare (purging and engine offline), MRF enclosed flare, MRF CHP engines, tipping area biofilter, materials sorting area biofilter, ADF biofilter, and windrows shall be source tested during the SCDP to confirm compliance with BACT emission standards. More frequent source testing may be required if the equipment does not comply with permitted limitations or if other compliance problems, as determined by the District, occur. Source testing shall be performed on a schedule using the date of the SCDP source test as the anniversary date.</p> <p>b. The permittee shall submit a written source test plan to the District for approval at least thirty (30) days prior to initiation of each source test. The source test plan shall be prepared consistent with the District's Source Test Procedures Manual (revised May 1990 and any subsequent revisions). The permittee shall obtain written District approval of the source test plan prior to commencement of source testing. The District shall be notified at least ten (10) calendar days prior to the start of source testing activity to arrange for a mutually agreeable source test date when District personnel may observe the test.</p> <p>c. Source test results shall be submitted to the District within forty-five (45) calendar days following the date of source test completion and shall be consistent with the requirements approved within the source test plan. Source test results shall document the permittee's compliance status with BACT requirements, mass emission rates in Table 5.1-3, Table 5.2-3, Table 5.3-3, Table 5.4-3, Table 5-5.3, and applicable permit conditions, rules and NSPS (if applicable). All District costs associated with the review and approval of all plans and reports and the witnessing of tests shall be paid by the permittee as provided for by District Rule 210.</p> <p>A source test for an item of equipment shall be performed on the scheduled day of testing (the test day mutually agreed to) unless circumstances beyond the control of the operator prevent completion of the test on the scheduled day. Such circumstances include mechanical malfunction of the equipment to be tested, malfunction of the source test equipment, delays in source test contractor arrival and/or set-up, or unsafe conditions on site. Except in cases of an emergency, the operator shall seek and obtain District approval before deferring or discontinuing a scheduled test, or performing maintenance on the equipment item on the scheduled test day. If the test cannot be completed on the scheduled day, then the test shall be rescheduled for another time with prior authorization by the District. Once the sample probe has been inserted into the exhaust stream of the equipment unit to be tested (or extraction of the sample has begun), the test shall proceed in accordance with the approved source test plan. In no case shall a test run be aborted except in the case of an emergency or unless approval is first obtained from the District. Failing to perform the source test of an equipment item on the scheduled test day without a valid reason and without District's authorization shall constitute a violation of this permit. If a test is postponed due to an emergency, written documentation of the emergency event shall be submitted to the District by the close of the business day following the scheduled test day.</p> <p>The timelines in a, b, and c above may be extended for good cause provided a written request is submitted to the District at least three (3) days in advance of the deadline, and approval for the extension is granted by the District.</p>	<p>Recommend adding this condition to the variance petition and adding a note in the variance petition that relief that only sought for Tipping Area Baghouse (Device ID: 388339), Materials Sorting Area Baghouse (Device ID: 388344), Tipping Area Biofilter (Device ID: 388341) and Materials Sorting Area Biofilter (Device ID: 388346).</p>
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9.C.19.b	No	<p>b. Sample ports shall be provided at the device process flow entry point and/or exit point at the locations on each device listed below:</p> <ul style="list-style-type: none"> i. Tipping Area Biofilter (Device ID: 388341) ii. Tipping Area Biofilter Scrubber (Device ID: 388799) iii. Tipping Area Baghouse (Device ID: 388339) iv. Materials Sorting Area Biofilter (Device ID: 388346) v. Materials Sorting Area Biofilter Scrubber (Device ID: 388797) vi. Materials Sorting Area Baghouse (Device ID: 388344) vii. ADF Biofilter (Device ID: 388351) viii. ADF Biofilter Scrubber (Device ID: 388795) ix. Paper Recycling Baghouse (Device ID: 388373) x. ADF Combined Heat and Power (CHP) Engine 1 (Device ID: 388360) xi. ADF Combined Heat and Power (CHP) Engine 2 (Device ID: 389006) xii. ADF Selective Catalytic Reduction/Oxidation Catalyst System 1 (Device ID: 388361) xiii. ADF Selective Catalytic Reduction/Oxidation Catalyst System 2 (Device ID: 389007) xiv. ADF Enclosed Flare (Device ID: 388364) xv. MRF Combined Heat and Power (CHP) Engine 1 (Device ID: 393170) xvi. MRF Combined Heat and Power (CHP) Engine 2 (Device ID: 393171) xvii. MRF Selective Catalytic Reduction/Oxidation Catalyst System 1 (Device ID: 393172) xviii. MRF Selective Catalytic Reduction/Oxidation Catalyst System 2 (Device ID: 389007) xix. MRF Enclosed Flare (Device ID: 388364) 	Recommend adding this condition to the variance petition and adding a note in the variance petition that relief that only sought for Tipping Area Baghouse (Device ID: 388339), Materials Sorting Area Baghouse (Device ID: 388344), Tipping Area Biofilter (Device ID: 388341), Materials Sorting Area Biofilter (Device ID: 388346), Tipping Area Biofilter Scrubber (Device ID: 388799) and Materials Sorting Area Biofilter Scrubbers (Device ID: 388797).
9.C.33.a	Yes (2021-11-I and 2021-12-R)	<p>C.33 Documents Incorporated by Reference. The documents listed below, including any District-approved updates thereof, are incorporated herein and shall have the full force and effect of a permit condition for this operating permit. These documents shall be implemented for the life of the Project and shall be made available to District inspection staff upon request.</p> <ul style="list-style-type: none"> a. Baghouse Inspection and Maintenance Plan (approved December 1, 2020) b. Process Monitor Calibration and Maintenance Plan (to be updated) c. CEMS Plan (to be updated) d. Emergency Episode Plan (to be submitted) e. Property Boundary Sulfur Monitoring Plan (approved November 30, 2020) f. Biofilter Monitoring Plan (approved November 30, 2020) g. LFG Condensate Disposal Plan (to be updated) 	

9.C.33.f	Yes (2021-11-I and 2021-12-R)	<p>C.33 Documents Incorporated by Reference. The documents listed below, including any District-approved updates thereof, are incorporated herein and shall have the full force and effect of a permit condition for this operating permit. These documents shall be implemented for the life of the Project and shall be made available to District inspection staff upon request.</p> <ul style="list-style-type: none"> a. Baghouse Inspection and Maintenance Plan (approved December 1, 2020) b. Process Monitor Calibration and Maintenance Plan (to be updated) c. CEMS Plan (to be updated) d. Emergency Episode Plan (to be submitted) e. Property Boundary Sulfur Monitoring Plan (approved November 30, 2020) f. Biofilter Monitoring Plan (approved November 30, 2020) g. LFG Condensate Disposal Plan (to be updated) 	
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ATC Mod 14500-02 Conditions Not Included in Newest Variance

- 9.C.1.c.iv – Tipping Area Exhaust (condition removed in ATC Mod 14500-05)
- 9.C.1.d.iv – Tipping Area Negative Pressure (condition removed in ATC Mod 14500-05)
- 9.C.5.b.xvi – Visible Emissions (condition removed in ATC Mod 14500-05)
- 9.C.5.c.v – Visible Emissions (condition removed in ATC Mod 14500-05)
- 9.C.5.d.v – Visible Emissions (condition removed in ATC Mod 14500-05)
- 9.C.6.a.v – Biofilter Scrubber Manufacturer Recommendations (do not need to include)
- 9.C.6.b.iv – Biofilter Scrubber Maintenance Log (do not need to include)
- 9.C.6.c.iv – Biofilter Scrubber Maintenance Log (do not need to include)