

**YOLO-SOLANO AIR QUALITY MANAGEMENT DISTRICT**  
 1947 Galileo Court, Suite 103; Davis, CA 95618  
 Phone (530) 757-3650 Fax (530) 757-3670

**FACILITY NUMBER:** 05341  
**SIC CODE:** 4953

**AUTHORITY TO CONSTRUCT  
 C-10-58  
 IS HEREBY GRANTED TO**

**RECOLOGY HAY ROAD  
 6426 Hay Road  
 Vacaville, CA 95688**

**EQUIPMENT LOCATION:** 6426 Hay Road; Vacaville, CA

**TO CONSTRUCT**

**PROCESS DESCRIPTION:** Internal combustion (IC) engine powering a truck tipper

**EQUIPMENT INVENTORY:** 170 BHP propane fired Kem equipment IC Engine, Model No. 8.1L, Serial No. TBD, Model Year 2010

**- Total Billing: Schedule 7, 170 BHP -**

**CONTROL EQUIPMENT INVENTORY:**

Automatic air/fuel ratio controller and catalytic converter

**PERMITTED EMISSION LIMITS:**

Pollutant	Daily [lb]	Qtr #1 (Jan 1-Mar 31) [lb]	Qtr #2 (Apr 1-June 30) [lb]	Qtr #3 (July 1-Sept 30) [lb]	Qtr #4 (Oct 1-Dec 31) [lb]	Yearly [tons]
VOC	1.0	49	49	49	49	0.10
CO	25.5	1,305	1,305	1,305	1,305	2.61
NO <sub>x</sub>	3.5	179	179	179	179	0.36
SO <sub>x</sub>	0.5	47	47	48	48	0.10
PM <sub>10</sub>	0.4	35	35	36	36	0.07

**PERMITTED PROCESS LIMITS:**

	Daily [gallons]	Qtr #1 (Jan 1-Mar 31) [gallons]	Qtr #2 (Apr 1-June 30) [gallons]	Qtr #3 (July 1-Sept 30) [gallons]	Qtr #4 (Oct 1-Dec 31) [gallons]	Yearly [gallons]

Propane		394		20,172		20,172		20,172		20,172		80,688
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The following information is included to inform and assist the Permit Holder in achieving compliance with applicable provisions of Federal, State, and District Rules and Regulations. The following set of referenced regulations are not intended to be either comprehensive or exclusive, nor are they intended to be emission limiting permit conditions, but they are still applicable rules of the District. Occasionally laws are amended. The amended versions of the referenced rules shall be deemed to be in effect. **It is the Permit Holder's responsibility to comply with all applicable Rules and Regulations.** Within 10 days of receiving a complaint or other legal process initiating a challenge to this Authority to Construct, or subsequent Permit to Operate, the District shall notify the applicant or Permit Holder in writing. The applicant or Permit Holder may, within 30 days of posting of the notice, request the revocation of the permit or cancellation of the application. An applicant or Permit Holder not requesting revocation or cancellation within 30 days of receipt of notice from the District shall hold harmless and defend the District, its Board members, Hearing Board members, APCO, officers, agents, employees, and representatives from liability for any award, damages, costs, and fees incurred by the District and/or awarded to any plaintiff in any action challenging the validity of this permit or any environmental or other documentation related to approval of this permit, excepting only loss, injury or damage caused by the negligence or willful misconduct of the District.

1. After construction of all listed process and control equipment is complete, as determined by the District, the ATC Holder shall have 45 calendar days to conduct tests and perform other necessary initial adjustments on the equipment. During this time, this Authority to Construct and its conditions shall function as a temporary Permit to Operate. Any operation of the equipment beyond this period without either District receipt of a valid Permit to Operate Notification Card or written extension from the District, will be considered operation without a permit and subject to enforcement action. The ATC Holder shall provide the District, in writing, a notice prior to commencing the 45-day start-up period. [District Rule 3.1, §402]
2. The District requires an inspection of the equipment after completion of the construction and prior to the issuance of the Permit to Operate. [District Rule 3.1, §402]
3. An authorization to construct shall remain in effect only until the application for Permit to Operate is granted or denied; however, such an authorization shall not remain in effect beyond two years from the date of issuance unless the District finds that the time required for construction requires an extension and grants one or more extensions, for a total time not to exceed five years from the date of issuance. [District Rule 3.1, §407]

The following set of conditions are established by the District to provide enforceable operating parameters as authorized by California Health and Safety Code Section 42301 and District Rule 3.1, Section 402. If any of the rules and regulations referenced below are amended subsequent to the issuance date of this permit, resulting in the amended rule differing from or superseding the corresponding condition, then the Permit Holder shall be required to comply with the amended rule or regulation and shall no longer be required to comply with the superseded condition.

4. The Permit Holder shall not discharge into the atmosphere any air contaminant for a period or periods aggregating more than 3 minutes in any one hour which is:
  - a. As dark or darker in shade than No. 1 on the Ringelmann Chart; or
  - b. Greater than 20% opacity. [District Rule 3.4]
5. Emission rates shall not exceed the following:
  - a. VOC (measured as methane) - 72 ppmv @ 15% O<sub>2</sub>;
  - b. CO - 1,083 ppmv @ 15% O<sub>2</sub>; and
  - c. NO<sub>x</sub> (as NO<sub>2</sub>) - 90 ppmv @ 15% O<sub>2</sub>. [District Rule 2.32 and District Rule 3.4]
6. A non-resettable, totalizing fuel flow meter shall be installed and utilized to measure the quantity of propane combusted in the engine. [District Rule 2.32, §304.1]
7. The Permit Holder shall install and maintain such facilities as are necessary for sampling and testing purposes. The number, size, and location of sampling ports shall be in accordance with Air Resources Board Test Method 1. The location and access to the sampling platform shall be in accordance with the General Industry Safety Orders of the State of California. [District Rule 3.4]
8. The Permit Holder shall perform a source test within 45 days of the unit's initial startup and at least once every 12 months thereafter to demonstrate compliance with VOC, CO and NO<sub>x</sub> emission limits. [District Rule 2.32, §303.2 and District Rule 3.4]
9. Source testing shall be conducted using the following test methods:
  - a. VOC - EPA Method 18;
  - b. CO - EPA Method 10, or CARB Method 100;
  - c. NO<sub>x</sub> (as NO<sub>2</sub>) - EPA Method 7E, or CARB Method 100; and
  - d. Stack gas oxygen - EPA Method 3A, or CARB Method 100. [District Rule 2.32, §502 and District Rule 3.4]
10. The District must be notified prior to any emissions testing event (source test or screening analysis), and a protocol must be submitted for approval 14 days prior to testing. The results of an emissions testing event shall be submitted to the District within 60 days of the test date. The protocol and report shall be mailed to the attention of the Supervising Air Quality Engineer. [District Rule 3.4]
11. The Permit Holder shall monitor and record the cumulative quarterly and annual propane fuel usage from the totalizing meter. The records shall be updated quarterly and made available to the District upon request. [District Rule 2.32, §501]
12. Prior to implementation of this ATC, the Permit Holder shall supply 716 lbs of NO<sub>x</sub> mitigation credits from within the Yolo Solano AQMD. [District Rule 3.20, District-only requirement - not Federally enforceable]
13. The Permit Holder shall maintain records of: maintenance for the engine and control device according to the manufacturers emission related instructions, notifications submitted to comply with the subpart, and documentation from the manufacturer that the engine is certified to meet the applicable emission standards. (40 CFR §60.4243 and §60.4245).
14. The air to fuel ratio controller must be maintained and operated appropriately to ensure proper operation of the engine and control device. (40 CFR §60.4243(g)).

15. The Permit Holder shall maintain all records on site for a period of five (5) years from the date of entry and these records shall be made readily available to District personnel upon request. [District Rule 3.8, §302.6(b)/C-10-58]

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26, Part 4, Chapter 3, of the Health & Safety Codes of the State of California or the Rules and Regulations of the Yolo-Solano Air Quality Management District.

Mat Ehrhardt, P.E.  
AIR POLLUTION CONTROL OFFICER

By: \_\_\_\_\_

Date of Issuance: \_\_\_\_\_