ADMINISTRATIVE RECORD

Pacific Concrete Cutting & Coring, Inc.

Application No. 0925-01 for Initial Permit

Crushing and Screening Plant

Located At: Various Temporary Sites, State of Hawaii

Temporary CSP No. 0925-01-CT

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Public Notice

REQUEST FOR PUBLIC COMMENTS
ON DRAFT AIR PERMIT
REGULATING THE EMISSIONS OF AIR POLLUTANTS

(Docket No. 26-CA-PA-03)

Pursuant to Hawaii Revised Statutes (HRS), Chapter 342B-13 and Hawaii Administrative Rules (HAR), Chapter 11-60.1, the Department of Health, State of Hawaii (DOH), is requesting public comments on the following **DRAFT PERMIT** presently under review for:

Temporary Covered Source Permit (CSP) No. 0925-01-CT
Application No. 0925-01 for Initial Permit
Pacific Concrete Cutting & Coring, Inc.
Crushing and Screening Plant
Located At: Various Temporary Sites, State of Hawaii
Initial Location: Ehiku Street, Lihue, Kauai
UTM: 4Q; 461,409 m E, 2,431,092 m N, (NAD-83)

The **DRAFT PERMIT** is described as follows:

The issuance of Temporary CSP No. 0925-01-CT will grant conditional approval for the operation of a 308 tons per hour (TPH) Powerscreen jaw crusher and a 441 TPH Powerscreen screener. Water suppression will be used as necessary to minimize fugitive emissions from stone crushing and recycling operations. The jaw crusher and screener are subject to 40 Code of Federal Regulations (CFR), Part 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants.

The **ADMINISTRATIVE RECORD**, consisting of the **APPLICATION** and non-confidential supporting material from the applicant, the permit review summary, and the **DRAFT PERMIT**, is available for public inspection online at: http://health.hawaii.gov/cab/public-notices/ and at the following locations during regular office hours, Monday through Friday, 7:45 a.m. to 4:15 p.m.:

State of Hawaii
Clean Air Branch
2827 Waimano Home Road, #130
Pearl City, Hawaii 96782

Kauai District Health Office
Department of Health
3040 Umi Street, Lihue, Kauai

All comments on the draft permit and any request for a public hearing must be in writing, and must be postmarked or received by **April 9, 2026**, and may be:

- Emailed to doh.cabpubliccomments@doh.hawaii.gov; or
- Addressed to the Clean Air Branch at the above Oahu address.

Any person may request a public hearing by submitting a written request that explains the party's interest and the reasons why a hearing is warranted. The DOH may hold a public hearing if a hearing would aid in DOH's decision. If a public hearing is warranted, a public notice for the hearing will be published at least thirty (30) days in advance of the hearing.

Interested persons may obtain copies of the administrative record or parts thereof at a copying cost of five (5) cents per page. Please send written requests to the Clean Air Branch listed above or call Mr. Ukris Wongse-ont at the Clean Air Branch at (808) 586-4200.

Comments on the draft permit should address, but need not be limited to, the permit conditions and the facility's compliance with federal and state air pollution laws, including: (1) the National and State Ambient Air Quality Standards; and (2) HRS, Chapter 342B and HAR, Chapter 11-60.1.

The DOH will make a final decision on the permit after considering all comments and will send notice of the final decision to each person who has submitted comments or requested such notice.

Kenneth S. Fink, MD, MGA, MPH
Director of Health

Draft Permit

DRAFT

DATE

CERTIFIED MAIL 26-xxxE CAB
RETURN RECEIPT REQUESTED File No. 0925
(xxxx xxxx xxxx xxxx xxxx)

Mr. Eli Brainerd
President
Pacific Concrete Cutting
& Coring, Inc.
P.O. Box 662261
Lihue, Hawaii 96766

Dear Mr. Brainerd:

SUBJECT: Temporary Covered Source Permit (CSP) No. 0925-01-CT
Application No. 0925-01 for Initial Permit
Pacific Concrete Cutting & Coring, Inc.
Crushing and Screening Plant
Located At: Various Temporary Sites, State of Hawaii
Initial Location: Ehiku Street, Lihue, Island of Kauai
UTM: Zone 4; 461,409 m E, 2,431,092 m N (NAD-83)
Date of Expiration: DATE

The subject temporary CSP is issued in accordance with Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1. The issuance of this permit is based on the plans, specifications, and information that you submitted as part of your application received on February 4, 2025, and additional information on April 10, 2025.

The temporary CSP is issued subject to the conditions/requirements set forth in the following attachments:

Attachment I: Standard Conditions
Attachment II: Special Conditions
Attachment II - INSIG: Special Conditions - Insignificant Activities
Attachment III: Annual Fee Requirements
Attachment IV: Annual Emissions Reporting Requirements

The following forms are enclosed for your use and submittal as required:

Compliance Certification Form
Annual Emissions Report Form: Crushing and Screening Plant
Monitoring Report Form: Opacity Exceedances
Change of Location Request for a Temporary Source

The following are enclosed for your use in monitoring visible emissions:

Visible Emissions Form Requirements, State of Hawaii
Visible Emissions Form

This permit: (a) shall not in any manner affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to personal injury or property damage caused by, resulting from or arising out of the design, installation, maintenance, or operation of the equipment; and (c) in no manner implies or suggests that the Department of Health, Clean Air Branch (herein after referred to as Department), or its officers, agents, or employees, assumes any liability, directly or indirectly, for any loss due to personal injury or property damage caused by, resulting from or arising out of the design, installation, maintenance, or operation of the equipment.

If you have any questions, please contact Mr. Ukris Wongse-ont of the Clean Air Branch at (808) 586-4200.

Sincerely,

JOANNA L. SETO, P.E., CHIEF
Environmental Management Division

UW:tkg

Enclosures

ATTACHMENT I: STANDARD CONDITIONS
TEMPORARY COVERED SOURCE PERMIT NO. 0925-01-CT

Issuance Date: DATE **Expiration Date: DATE**

This permit is granted in accordance with the HAR, Title 11, Chapter 60.1, Air Pollution Control, and is subject to the following standard conditions:

1. Unless specifically identified, the terms and conditions contained in this permit are consistent with the applicable requirement, including form, on which each term or condition is based.

   (Auth.: HAR §11-60.1-90)

2. This permit, or a copy thereof, shall be maintained at or near the source and shall be made available for inspection upon request. The permit shall not be willfully defaced, altered, forged, counterfeited, or falsified.

   (Auth.: HAR §11-60.1-6; SIP §11-60-11)[2]

3. This permit is not transferable whether by operation of law or otherwise, from person to person, from place to place, or from one piece of equipment to another without the approval of the Department, except as provided in HAR, Section 11-60.1-91.

   (Auth.: HAR §11-60.1-7; SIP §11-60-9)[2]

4. A request for transfer from person to person shall be made on forms furnished by the Department.

   (Auth.: HAR §11-60.1-7)

5. In the event of any changes in control or ownership of the facilities to be constructed or modified, this permit shall be binding on all subsequent owners and operators. The permittee shall notify the succeeding owner and operator of the existence of this permit and its conditions by letter, copies of which will be forwarded to the Department and the U.S. Environmental Protection Agency (EPA), Region 9.

   (Auth.: HAR §11-60.1-5, §11-60.1-7, §11-60.1-94)

6. The facility covered by this permit shall be constructed and operated in accordance with the application, and any information submitted as part of the application, for the temporary CSP. There shall be no deviation unless additional or revised plans are submitted to and approved by the Department, and the permit is amended to allow such deviation.

   (Auth.: HAR §11-60.1-2, §11-60.1-4, §11-60.1-82, §11-60.1-84, §11-60.1-90)

7. This permit (a) does not release the permittee from compliance with other applicable statutes of the State of Hawaii, or with applicable local laws, regulations, or ordinances, and (b) shall not constitute, nor be construed to be an approval of the design of the covered source.

   (Auth.: HAR §11-60.1-5, §11-60.1-82)

8. The permittee shall comply with all the terms and conditions of this permit. Any permit noncompliance constitutes a violation of HAR, Chapter 11-60.1, and the Clean Air Act and is grounds for enforcement action; for permit termination, suspension, reopening, or amendment; or for denial of a permit renewal application.

   (Auth.: HAR §11-60.1-3, §11-60.1-10, §11-60.1-19, §11-60.1-90)

9. If any term or condition of this permit becomes invalid as a result of a challenge to a portion of this permit, the other terms and conditions of this permit shall not be affected and shall remain valid.

   (Auth.: HAR §11-60.1-90)

10. The permittee shall not use as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the terms and conditions of this permit.

    (Auth.: HAR §11-60.1-90)

11. This permit may be terminated, suspended, reopened, or amended for cause pursuant to HAR, Sections 11-60.1-10 and 11-60.1-98, and Hawaii Revised Statutes (HRS), Chapter 342B-27, after affording the permittee an opportunity for a hearing in accordance with HRS, Chapter 91.

    (Auth.: HAR §11-60.1-3, §11-60.1-10, §11-60.1-90, §11-60.1-98)

12. The filing of a request by the permittee for the termination, suspension, reopening, or amendment of this permit, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

    (Auth.: HAR §11-60.1-90)

13. This permit does not convey any property rights of any sort, or any exclusive privilege.

    (Auth.: HAR §11-60.1-90)

14. The permittee shall notify the Department and U.S. EPA, Region 9, in writing of the following dates:

    a. The **anticipated date of initial start-up** for each emission unit of a new source or significant modification not more than sixty (60) days or less than thirty (30) days prior to such date;
    b. The **actual date of construction commencement** within fifteen (15) days after such date; and
    c. The **actual date of start-up** within fifteen (15) days after such date.

    (Auth.: HAR §11-60.1-90)

15. The permittee shall furnish, in a timely manner, any information or records requested in writing by the Department to determine whether cause exists for terminating, suspending, reopening, or amending this permit, or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Department copies of records required to be kept by the permittee. For information claimed to be confidential, the Director of Health (Director) may require the permittee to furnish such records not only to the Department but also directly to the U.S. EPA, Region 9, along with a claim of confidentiality.

    (Auth.: HAR §11-60.1-14, §11-60.1-90)

16. The permittee shall notify the Department in writing, of the **intent to shut down air pollution control equipment for necessary scheduled maintenance** at least twenty-four (24) hours prior to the planned shutdown. The submittal of this notice shall not be a defense to an enforcement action. The notice shall include the following:

    a. Identification of the specific equipment to be taken out of service, as well as its location and permit number;
    b. The expected length of time that the air pollution control equipment will be out of service;
    c. The nature and quantity of emissions of air pollutants likely to be emitted during the shutdown period;
    d. Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; and
    e. The reasons why it would be impossible or impractical to shut down the source operation during the maintenance period.

    (Auth.: HAR §11-60.1-15; SIP §11-60-16)[2]

17. I**n the event any emission unit, air pollution control equipment, or related equipment malfunctions or breaks down in such a manner as to cause the emission of air pollutants in violation of HAR, Chapter 11-60.1, or this permit**, the permittee shall immediately notify the Department of the malfunction or breakdown, unless the protection of personnel or public health or safety demands immediate attention to the malfunction or

breakdown and makes such notification infeasible. In the latter case, the notice shall be provided as soon as practicable. Within five (5) working days of this initial notification, the permittee shall also submit, in writing, the following information:

a. Identification of each affected emission point and each emission limit exceeded;
b. Magnitude of each excess emission;
c. Time and duration of each excess emission;
d. Identity of the process or control equipment causing the excess emission;
e. Cause and nature of each excess emission;
f. Description of the steps taken to remedy the situation, prevent a recurrence, limit the excessive emissions, and assure that the malfunction or breakdown does not interfere with the attainment and maintenance of the National Ambient Air Quality Standards and State Ambient Air Quality Standards;
g. Documentation that the equipment or process was at all times maintained and operated in a manner consistent with good practice for minimizing emissions; and
h. A statement that the excess emissions are not part of a recurring pattern indicative of inadequate design, operation, or maintenance.

The submittal of these notices shall not be a defense to an enforcement action.

(Auth.: HAR §11-60.1-16; SIP §11-60-16)[2]

18. The permittee may request confidential treatment of any records in accordance with HAR, Section 11-60.1-14.

(Auth.: HAR §11-60.1-14, §11-60.1-90)

19. This permit shall become invalid with respect to the authorized construction if construction is not commenced as follows:

a. Within eighteen (18) months after the permit takes effect, is discontinued for a period of eighteen (18) months or more, or is not completed within a reasonable time.
b. For phased construction projects, each phase shall commence construction within eighteen (18) months of the projected and approved commencement dates in the permit. This provision shall be applicable only if the projected and approved commencement dates of each construction phase are defined in Attachment II, Special Conditions, of this permit.

(Auth.: HAR §11-60.1-9, §11-60.1-90)

20. The Department may extend the time periods specified in Standard Condition No. 19 upon a satisfactory showing that an extension is justified. Requests for an extension shall be submitted in writing to the Department.

(Auth.: HAR §11-60.1-9, §11-60.1-90)

21. The permittee shall submit fees in accordance with HAR, Chapter 11-60.1, Subchapter 6.

    (Auth.: HAR §11-60.1-90)

22. All certifications shall be in accordance with HAR, Section 11-60.1-4.

    (Auth.: HAR §11-60.1-4, HAR §11-60.1-90)

23. The permittee shall allow the Director, the Regional Administrator for the U.S. EPA and/or an authorized representative, upon presentation of credentials or other documents required by law:

    a. To enter the premises where a source is located or emission-related activity is conducted, or where records must be kept under the conditions of this permit and inspect at reasonable times all facilities, equipment, including monitoring and air pollution control equipment, practices, operations, or records covered under the terms and conditions of this permit and request copies of records or copy records required by this permit; and
    b. To sample or monitor at reasonable times substances or parameters to ensure compliance with this permit or applicable requirements of HAR, Chapter 11-60.1.

    (Auth.: HAR §11-60.1-11, §11-60.1-90)

24. Within thirty (30) days of **permanent discontinuance of the construction, modification, relocation, or operation of a covered source covered by this permit**, the discontinuance shall be reported in writing to the Department by a responsible official of the source.

    (Auth.: HAR §11-60.1-8; SIP §11-60-10)[2]

25. Each permit renewal application shall be submitted to the Department and the U.S. EPA, Region 9, no less than twelve (12) months and no more than eighteen (18) months prior to the permit expiration date. The Director may allow a permit renewal application to be submitted no less than six (6) months prior to the permit expiration date, if the Director determines that there is reasonable justification.

    (Auth.: HAR §11-60.1-101; 40 CFR §70.5(a)(1)(iii))[1]

26. The terms and conditions included in this permit, including any provision designed to limit a source's potential to emit, are federally enforceable unless such terms, conditions, or requirements are specifically designated as not federally enforceable.

    (Auth.: HAR §11-60.1-93)

27. The compliance plan and compliance certification submittal requirements shall be in accordance with HAR, Sections 11-60.1-85 and 11-60.1-86. As specified in HAR, Section 11-60.1-86, the compliance certification shall be submitted to the Department and the U.S. EPA, Region 9, once per year or more frequently as set by any applicable requirement.

    (Auth.: HAR §11-60.1-90)

28. **Any document (including reports) required to be submitted by this permit shall be certified as being true, accurate, and complete by a responsible official in accordance with HAR, Sections 11-60.1-1 and 11-60.1-4, and shall be mailed to the following address:**

    State of Hawaii
    Clean Air Branch
    2827 Waimano Home Road, #130
    Pearl City, HI 96782

    Upon request and as required by this permit, all correspondence to the State of Hawaii Department of Health associated with this temporary CSP shall have duplicate copies forwarded to:

    Manager
    Enforcement Division, Air Section
    U.S. Environmental Protection Agency, Region 9
    75 Hawthorne Street, ENF-2-1
    San Francisco, CA 94105

    (Auth.: HAR §11-60.1-4, §11-60.1-90)

29. To determine compliance with submittal deadlines for time-sensitive documents, the postmark date of the document shall be used. If the document was hand-delivered, the date received ("stamped") at the Clean Air Branch shall be used to determine the submittal date.

    (Auth.: HAR §11-60.1-5, §11-60.1-90)

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[1]The citations to the Code of Federal Regulations (CFR) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the CFR. Due to the integration of the preconstruction and operating permit requirements, permit conditions may incorporate more stringent requirements than those set forth in the CFR.

[2]The citations to the State Implementation Plan (SIP) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.

ATTACHMENT II: SPECIAL CONDITIONS
TEMPORARY COVERED SOURCE PERMIT NO. 0925-01-CT

Issuance Date: DATE **Expiration Date: DATE**

In addition to the Standard Conditions of the temporary CSP, the following Special Conditions shall apply to the permitted facility:

Section A. Equipment Description

1. This permit encompasses the following equipment and associated appurtenances:

   Crushing and Screening Plant

   a. 308 TPH Powerscreen jaw crusher, Model Premiertrak 330, Serial No. (PIN) PIDPT330POMLA3657, with water spray system, Manufactured in 2020 (Self-Propelled);
   b. 441 TPH Powerscreen screener, 2-deck, Model Chieftain 1400, Serial No. (PIN) PID00066CDGKB1692, Manufactured in 2019 (Self-Propelled);
   c. Various conveyors; and
   d. Water Sprays.

   (Auth.: HAR §11-60.1-3)

2. An identification tag or name plate shall be displayed on the equipment listed above to show the manufacturer, model no., and serial no., as applicable. The identification tag or name plate shall be permanently attached to the equipment at a conspicuous location.

   (Auth.: HAR §11-60.1-5, §11-60.1-90)

Section B. Applicable Federal Regulations

1. The crusher, screener, and conveyors are subject to the provisions of the following federal regulations:

   a. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart A, General Provisions; and
   b. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants.

   (Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.1, §60.670)[1]

2. The permittee shall comply with all applicable requirements of these standards, including all operational and emission limits, monitoring and recordkeeping, notification and reporting, testing, and change of location requirements. The major requirements of these standards are detailed in the special conditions of this permit.

   (Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR Part 60)[1]

Section C. Operational and Emissions Limitations

1. Fugitive Emission Limits

    a. The permittee shall not cause to be discharged into the atmosphere from the crusher, fugitive emissions which exhibit greater than twelve percent (12%) opacity.
    b. The permittee shall not cause to be discharged into the atmosphere from any transfer point on the belt conveyors, screening operations, or from any other affected facility, fugitive emissions which exhibit greater than seven percent (7%) opacity.

    (Auth.: HAR §11-60.1-3, §11-60.1-33, §11-60.1-90, §11-60.1-161; 40 CFR §60.672)[1]

2. Fugitive Emission Control

    a. The permittee shall not cause or permit fugitive dust to become airborne without taking reasonable precautions and shall not cause or permit the discharge of visible emissions (VE) of fugitive dust beyond the lot line of the property boundary on which the emissions originate.
    b. The permittee shall take measures to control and minimize fugitive dust (e.g., wetting dry material prior to screening, wet suppression, enclosures, dust screens, etc.) at all material transfer points, stockpiles, plant roads, and throughout the facility. The Department may at any time require the permittee to further abate fugitive dust emissions if an inspection indicates poor or insufficient control.
    c. The water spray system shall be maintained and utilized, as necessary, during operation of the crushing plant to ensure compliance with the fugitive emission limits. The Department at any time may require continuous operation of the water spray and/or additional water sprays or manual water spraying at pertinent locations if an inspection indicates that more fugitive dust control is needed.
    d. The crushing plant shall not be operated if observation, or the routine inspection required in Attachment II, Special Condition No. D.3.b, indicates a significant drop in water flow rate and/or water pressure, plugged nozzle(s), leak in the piping system, or other problems which affect the efficiency of the water spray system. The permittee shall investigate and correct the problem before resuming operations. The normal operating water pressure (psi) and/or flow rate (gal/min) for the water spray system shall be established during the performance test conducted pursuant to Attachment II, Special Conditions, Section F, and may be incorporated into the permit.
    e. The water spray system shall be properly maintained and kept in good operating condition at all times with scheduled inspections and maintenance as needed to ensure compliance with the fugitive emission limits.
    f. Water spray system and/or a water truck shall be maintained and utilized, as necessary, to minimize fugitive dust from plant operations (e.g., haul roads, stockpiles, material transfer points, etc.).

    (Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-33, §11-60.1-90)

3. Maintenance

   The crushing plant, screening plant, and water spray system shall be properly maintained and kept in good operating condition at all times with scheduled inspections and maintenance as recommended by the manufacturer, and as needed.

   (Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

4. Change of Locations

   a. The operation of the equipment covered by this temporary CSP shall involve at least one (1) location change during the term of this permit. **Moving within a single property is not considered a location change.**
   b. Location changes of the equipment shall be in accordance with Attachment II, Special Conditions, Section G. For each change in location, the Department reserves the right to impose additional operational controls and restrictions if a site evaluation indicates the controls and/or restrictions are necessary.

   (Auth.: HAR §11-60.1-3, §11-60.1-81, §11-60.1-91)

Section D. Monitoring and Recordkeeping Requirements

1. Records

   All records, including support information, shall be maintained for at least five (5) years from the date of the monitoring sample, measurement, test, report, or application. Support information includes all maintenance, inspection, and repair records and copies of all reports required by this permit. These records shall be true, accurate, and maintained in a permanent form suitable for inspection and made available to the Department or its representative(s) upon request.

   (Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

2. Production

   The permittee shall maintain records on the total tons of material processed by the Crushing and Screening Plant for the purposes of annual emissions reporting.

   (Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

3. Water Spray System - Crusher

   a. A water pressure gauge and/or flow meter shall be installed, operated, and maintained to measure the pressure and/or flow rate of the water spray systems in psi and/or gallons per minute (gal/min).

b. The water spray systems, to include the water pump, piping system, spray nozzles, and any gauges (i.e., water pressure, water flow meter, etc.) shall be inspected routinely at least once per month to ensure proper operation of the water spray systems. Inspections of the water spray systems shall be recorded in accordance with the Inspection, Maintenance, and Repair Log of Attachment II, Special Condition No. D.4.
c. The permittee shall initiate corrective action within twenty-four (24) hours and complete corrective action as expediently as practical if the permittee finds that water is not flowing properly during an inspection of the water spray system.
d. If equipment that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (e.g., water from recent rainfall), the logbook entry must specify the control mechanism being used instead of the water sprays.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90; 40 CFR §60.674)[1]

4. Inspection, Maintenance, and Repair Log

An inspection, maintenance, and repair log shall be maintained for the equipment covered under this permit. Inspection and replacement of parts and repairs to the crusher, screener, conveyors, and water spray system shall be well documented. At a minimum, the following records shall be maintained:

a. The date of the inspection/maintenance/repair work;
b. A description of the part(s) inspected or repaired;
c. A description of the findings and any maintenance or repair work performed; and
d. The name and title of the personnel performing the inspection/work.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

5. Performance Test

Performance tests shall be conducted on the Crushing and Screening Plant pursuant to Attachment II, Special Conditions, Section F. Test plans, summaries, and results shall be maintained in accordance with the requirements of this section.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

6. Visible Emissions

Except in those months when performance tests are conducted for fugitive emissions pursuant to Attachment II, Special Conditions, Section F, the permittee shall conduct **monthly** (calendar month), VE observations for the Crushing and Screening Plant by a certified reader in accordance with 40 CFR Part 60, Appendix A, Method 9, or U.S. EPA

approved equivalent methods, or alternative methods with prior written approval from the Department and U.S. EPA. For each month, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals for each emission point subject to an opacity limit. Records shall be completed and maintained in accordance with the *Visible Emissions Form Requirements*. For the VE observations of fugitive emissions, the observer shall comply with the following additional requirements:

a. The minimum distance between the observer and the emission source shall be 4.57 meters (fifteen (15) feet), but not greater than 402 meters (0.25 miles);
b. The observer shall, when possible, select a position that minimizes interference from other VE sources. The required observer position relative to the sun (Method 9, Section 2.1) shall be followed; and
c. The observer shall record the operating capacity (ton/hr) of the crushing plant at the time the observations were made.

The Department may allow observation of a portion of the total fugitive emission points subject to opacity limits, if it can be demonstrated that operations have been in compliance with the permit. At a minimum, at least three (3) fugitive emission points shall be observed each month. The selected points shall include a crusher, screener, and transfer point, or those points as specified by the Department. Allowance to observe a portion of the total required fugitive emission points shall be obtained in writing from the Department.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-32, §11-60.1-90; SIP §11-60-24)[2]

Section E. Notification and Reporting Requirements

1. Standard Conditions Reporting

Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 14, 16, 17, and 24, respectively:

a. Anticipated date of initial start-up, actual date of construction commencement, and actual date of start-up for the crusher and screener;
b. Intent to shut down air pollution control equipment for necessary scheduled maintenance;
c. Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit; and
d. Permanent discontinuance of construction, modification, relocation, or operation of the facility covered by this permit.

(Auth.: HAR §11-60.1-8, §11-60.1-15, §11-60.1-16, §11-60.1-90; SIP §11-60-10, §11-60-16)[2]

2. Deviations

   The permittee shall report in writing **within five (5) working days** any deviations from permit requirements, including those attributable to upset conditions, the probable cause of such deviations and any corrective actions or preventive measures taken. Corrective actions may include a requirement for additional source testing, more frequent monitoring, or could trigger implementation of a corrective action plan.

   (Auth.: HAR §11-60.1-3, §11-60.1-15, §11-60.1-16, §11-60.1-90)

3. Annual Emissions Reports

   As required by Attachment IV, Annual Emissions Reporting Requirements, and in conjunction with the requirements of Attachment III, Annual Fee Requirements, the permittee shall report **annually** the total tons per year emitted of each regulated air pollutant. The report is due **within sixty (60) days** following the end of each calendar year. The following enclosed form shall be used for reporting:

   Annual Emissions Report Form: Crushing and Screening Plant

   Upon the permittee's written request, the deadline for annual emissions reporting may be extended, if the Department determines that reasonable justification exists for the extension.

   (Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

4. Monitoring Reports

   The permittee shall submit **semi-annually** the following reports to the Department. The reports shall be submitted **within sixty (60) days** after the end of each semi-annual calendar period (January 1 - June 30 and July 1 - December 31), and shall be signed and dated by a responsible official. The following enclosed form shall be used for reporting:

   Monitoring Report Form: Opacity Exceedances

   (Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

5. Performance Testing

   a. At least **thirty (30) days** prior to conducting a source performance test pursuant to Attachment II, Special Conditions, Section F, the permittee shall notify and submit a written performance test plan to the Department in accordance with Attachment II, Special Condition No. F.4.
   b. Within **sixty (60) days** after completion of a source performance test, the permittee shall submit a test report in accordance with Attachment II, Special Condition No. F.6.

   (Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; 40 CFR §60.8)[1]

6. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department and U.S. EPA, Region 9, the attached **Compliance Certification Form** pursuant to HAR §11-60.1-86. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:

a. The identification of each term or condition of the permit that is the basis of the certification;
b. The compliance status;
c. Whether compliance was continuous or intermittent;
d. The methods used for determining the compliance status of the source currently and over the reporting period;
e. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification including the requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act;
f. Brief description of any deviations including identifying as possible exceptions to compliance any periods during which compliance is required and in which the excursion or exceedances as defined in 40 CFR Part 64 occurred; and
g. Any additional information as required by the Department including information to determine compliance.

The compliance certification shall be submitted **within sixty (60) days** after the end of each calendar year and shall be signed and dated by a responsible official.

Upon written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department determines that reasonable justification exists for the extension.

(Auth.: HAR §11-60.1-4, §11-60.1-86, §11-60.1-90)

Section F. Testing Requirements

1. Initial and Annual Performance Testing

a. Within **sixty (60) days** after achieving the maximum production rate at which the crusher and screener will be operated, but not later than **180 days** after initial start-up, and **annually** thereafter, the permittee shall conduct or cause to be conducted performance tests on the crusher and screener to determine the opacity of emissions. Tests shall be conducted for each point subject to an opacity limit specified in Attachment II, Special Condition No. C.1.
b. The test shall be conducted at the maximum expected operating capacity of the crusher and screener.

c. The Department may require testing at other points in the facility or more frequent testing if an inspection indicates poor or insufficient controls.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.8, §60.675; SIP §11-60-15)[1,2]

2. Performance Test Methods

a. The performance tests for the determination of opacity shall be conducted by a certified reader using Method 9 of 40 CFR Part 60, Appendix A-4, and the procedures in 40 CFR §60.11, with the following additions for the fugitive emissions observations:

i. The minimum distance between the observer and the emission source shall be 4.57 meters (fifteen (15) feet);
ii. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources. The required observer position relative to the sun (Method 9, Section 2.1) shall be followed;
iii. The observer shall record the operating capacity (tons/hr) of the crushing plant at the time the observations were made; and
iv. The observer shall record the flow rate for the water spray system in gallons per minute servicing the plant.

b. When determining compliance with the fugitive emissions standard of Attachment II, Special Condition No. C.1, the duration of Method 9 observations must be thirty (30) minutes (five (5) six-minute (6-minute) averages). Compliance with the applicable fugitive emission limits specified in Attachment II, Special Condition No. C.1, must be based on the average of the five (5) six-minute (6-minute) averages.

c. When determining compliance with the fugitive emissions standard of Attachment II, Special Condition No. C.1, if emissions from two (2) or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:

i. Use for the combined emission stream, the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream; or
ii. Separate the emissions so that the opacity of emissions from each affected facility can be read.

d. When determining compliance with the fugitive emissions standard of Attachment II, Special Condition No. C.1, a single VE observer may conduct VE observations for up to three (3) fugitive, stack, or vent emission points within a fifteen-second (15-second) interval if the following conditions are met:

i. No more than three (3) emission points may be read concurrently;
ii. All three (3) emission points must be within a seventy (70) degree viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three (3) points; and

iii. If an opacity reading for any one (1) of the three (3) emission points equals or exceeds the applicable standard, then the observer must stop taking readings for the other two (2) points and continue reading just that single point.

e. If, after **thirty (30) days** notice for an initially scheduled performance test, there is a delay, for example, due to operational problems, in conducting any rescheduled performance test required by Attachment II, Special Conditions, Section F, the permittee shall submit a notice to the Department at least **seven (7) days** prior to any rescheduled performance test.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; 40 CFR §60.8, §60.675)[1]

3. Performance Test Expense and Monitoring

The performance tests shall be made at the expense of the permittee and may be monitored by the Department.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

4. Performance Test Plan

At least **thirty (30) days** prior to conducting a performance test, the permittee shall submit a written performance test plan to the Department and U.S. EPA, Region 9, that includes date(s) of the test, test duration, test locations, test methods, source operation, locations of VE readings, and other parameters that may affect the test results. Such a plan shall conform to U.S. EPA guidelines including quality assurance procedures. A test plan or quality assurance plan that does not have the approval of the Department may be grounds to invalidate any test and require a retest.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; 40 CFR §60.8; SIP §11-60-15)[1,2]

5. Deviations

Any deviations from these conditions, test methods, or procedures may be cause for rejection of the test results unless such deviations are approved by the Department before the tests.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

6. Performance Test Report

Within **sixty (60) days** after completion of a performance test, the permittee shall submit to the Department and U.S. EPA, Region 9, the test report which shall include the operating conditions of the equipment at the time of the test (e.g., operating rate in tons/hr, water meter flow rate in gal/min, etc.), locations where the VE were read, VE readings, location of

water sprays, summarized test results, comparative results with the permit emission limits, other pertinent support calculations, and field/laboratory data. The results shall be recorded and reported in accordance with 40 CFR Part 60, Appendix A, and §60.8.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; 40 CFR §60.8, §60.675; SIP §11-60-15)[1,2]

7. Performance Test Waiver

   Upon written request and justification, the Department may waive the requirement for, or a portion of, a specific performance test. The waiver request is to be submitted prior to the required test and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior performance test indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous source test.

   (Auth.: HAR §11-60.1-3, §11-60.1-90)

Section G. Change of Location Requirements

1. For all location changes, the permittee shall submit the enclosed **Change of Location Request for a Temporary Source** form to the Department for approval **at least thirty (30) days prior to the change in location**, or such lesser time as designated and approved by the Department.

   (Auth.: HAR §11-60.1-3, §11-60.1-91)

2. With each change of location request, the permittee shall submit to the Department:

   a. A map of the proposed new temporary location showing the property boundary, fence lines, location of the equipment on the property, and the location of any other air pollution sources owned and operated by the permittee at the new location, and
   b. An area map showing the proposed new temporary location.

   (Auth.: HAR §11-60.1-3, §11-60.1-91)

3. The applicable filing fee shall be submitted to the Department with each change in location request and made payable to the **Clean Air Special Fund-COV**.

   (Auth.: HAR §11-60.1-3, §11-60.1-91)

4. The permittee shall submit any additional information as requested by the Department.

   (Auth.: HAR §11-60.1-3, §11-60.1-91)

5. Prior to any relocation, the Department shall approve, conditionally approve, or deny in writing each location change. If the Department denies a location change, the applicant may appeal the decision pursuant to HRS, Chapter 91.

   (Auth.: HAR §11-60.1-3, §11-60.1-91)

6. The change of location approval, or a copy thereof, shall be maintained near the source and shall be made available for inspection upon request by the Department.

   (Auth.: HAR §11-60.1-3, §11-60.1-91)

7. At each of the authorized locations, the permittee shall operate in accordance with this temporary CSP and all applicable requirements.

   (Auth.: HAR §11-60.1-3, §11-60.1-91)

Section H. Agency Notification

Any document (including reports) required to be submitted by this temporary CSP shall be done in accordance with Attachment I, Standard Condition No. 28.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

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[1]The citations to the Code of Federal Regulations (CFR) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the CFR. Due to the integration of the preconstruction and operating permit requirements, permit conditions may incorporate more stringent requirements than those set forth in the CFR.

[2]The citations to the State Implementation Plan (SIP) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.

ATTACHMENT II – INSIG
SPECIAL CONDITIONS – INSIGNIFICANT ACTIVITIES
TEMPORARY COVERED SOURCE PERMIT NO. 0925-01-CT

Issuance Date: DATE **Expiration Date: DATE**

In addition to the standard conditions of the temporary CSP, the following special conditions shall apply to the permitted facility:

Section A. Equipment Description

This attachment encompasses insignificant activities listed in HAR §11-60.1-82(f) and (g) for which provisions of this permit and HAR, Subchapter 2, General Prohibitions apply.

(Auth.: HAR §11-60.1-3)

Section B. Operational Limitations

1. The permittee shall take measures to operate applicable insignificant activities in accordance with the provisions of HAR, Subchapter 2 for VE, fugitive dust, incineration, process industries, sulfur oxides from fuel combustion, storage of volatile organic compounds, volatile organic compound water separation, pump and compressor requirements, and waste gas disposal.

   (Auth.: HAR §11-60.1-3, §11-60.1-82, §11-60.1-90)

2. The Department may at any time require the permittee to further abate emissions if an inspection indicates poor or insufficient controls.

   (Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-82, §11-60.1-90)

Section C. Monitoring and Recordkeeping Requirements

1. The Department reserves the right to require monitoring, recordkeeping, or testing of any insignificant activity to determine compliance with the applicable requirements.

   (Auth.: HAR §11-60.1-3, §11-60.1-90)

2. All records shall be maintained for at least five (5) years from the date of any required monitoring, recordkeeping, testing, or reporting. These records shall be true, accurate, and maintained in a permanent form suitable for inspection and made available to the Department or its authorized representative upon request.

   (Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

Section D. Notification and Reporting

Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department and U.S. EPA, Region 9, the attached **Compliance Certification Form** pursuant to HAR §11-60.1-86. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:

1. The identification of each term or condition of the permit that is the basis of the certification;
2. The compliance status;
3. Whether compliance was continuous or intermittent;
4. The methods used for determining the compliance status of the source currently and over the reporting period;
5. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification including the requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act;
6. Brief description of any deviations including identifying as possible exceptions to compliance any periods during which compliance is required and in which the excursion or exceedances as defined in 40 CFR Part 64 occurred; and
7. Any additional information as required by the Department including information to determine compliance.

The compliance certification shall be submitted **within sixty (60) days** after the end of each calendar year and shall be signed and dated by a responsible official.

Upon written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department determines that reasonable justification exists for the extension.

In lieu of addressing each emission unit as specified in the **Compliance Certification Form**, the permittee may address insignificant activities as a single unit provided compliance is met with all applicable requirements. If compliance is not totally attained, the permittee shall identify the specific insignificant activity and provide the details associated with the noncompliance.

(Auth.: HAR §11-60.1-4, §11-60.1-86, §11-60.1-90)

Section E. Agency Notification

Any document (including reports) required to be submitted by this temporary CSP shall be done in accordance with Attachment I, Standard Condition No. 28.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

ATTACHMENT III: ANNUAL FEE REQUIREMENTS
TEMPORARY COVERED SOURCE PERMIT NO. 0925-01-CT

Issuance Date: DATE **Expiration Date: DATE**

The following requirements for the submittal of annual fees are established pursuant to HAR, Title 11, Chapter 60.1, Air Pollution Control. Should HAR, Chapter 60.1 be revised such that the following requirements are in conflict with the provisions of HAR, Chapter 60.1, the permittee shall comply with the provisions of HAR, Chapter 60.1:

1. Annual fees shall be paid in full:

   a. Within **120 days** after the end of each calendar year; and
   b. Within **thirty (30) days** after the permanent discontinuance of the covered source.

2. The annual fees shall be determined and submitted in accordance with HAR, Chapter 11-60.1, Subchapter 6.

3. The annual emissions data for which the annual fees are based shall accompany the submittal of any annual fees and be submitted on forms furnished by the Department.

4. The annual fees and the emission data shall be mailed to:

State of Hawaii
Clean Air Branch
2827 Waimano Home Road, #130
Pearl City, HI 96782

ATTACHMENT IV: ANNUAL EMISSIONS REPORTING REQUIREMENTS
TEMPORARY COVERED SOURCE PERMIT NO. 0925-01-CT

Issuance Date: DATE **Expiration Date: DATE**

In accordance with the HAR, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the nature and amounts of emissions.

1. Complete the attached form(s):

   Annual Emissions Report Form: Crushing and Screening Plant

2. The reporting period shall be from January 1 to December 31 of each year. All reports shall be submitted to the Department within **sixty (60) days** after the end of each calendar year and shall be mailed to the following address:

   State of Hawaii
   Clean Air Branch
   2827 Waimano Home Road, #130
   Pearl City, HI 96782

3. The permittee shall retain the information submitted, including all emission calculations. These records shall be in a permanent form suitable for inspection, retained for a minimum of five (5) years, and made available to the Department upon request.

4. Any information submitted to the Department without a request for confidentiality shall be considered public record.

5. In accordance with HAR, Section 11-60.1-14, the permittee may request confidential treatment of specific information, including information concerning confidential processes or methods of manufacture, by submitting a written request to the Director and clearly identifying the specific information that is to be accorded confidential treatment.

COMPLIANCE CERTIFICATION FORM
TEMPORARY COVERED SOURCE PERMIT NO. 0925-01-CT
(CONTINUED, PAGE 1 OF ___)

Issuance Date: DATE **Expiration Date: DATE**

In accordance with the Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following certification at least annually, or more frequently as requested by the Department of Health.

(Make Copies for Future Use)

For Period: _____ Date: _____

Company/Facility Name: _____

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by Department of Health as public record. I further state that I will assume responsibility for the construction, modification, or operation of the source in accordance with the HAR, Title 11, Chapter 60.1, Air Pollution Control, and any permit issued thereof.

COMPLIANCE CERTIFICATION FORM
TEMPORARY COVERED SOURCE PERMIT NO. 0925-01-CT
(CONTINUED, PAGE 2 OF ___)

Issuance Date: DATE **Expiration Date: DATE**

(Make Copies for Future Use)

The purpose of this form is to evaluate whether or not the facility was in compliance with the permit terms and conditions during the covered period. If there were any deviations to the permit terms and conditions during the covered period, the deviation(s) shall be certified as *intermittent compliance* for the particular permit term(s) or condition(s). Deviations include failure to monitor, record, report, or collect the minimum data required by the permit to show compliance. In the absence of any deviation, the particular permit term(s) or condition(s) may be certified as *continuous compliance*.

Instructions:

Please certify Sections A, B, and C below for continuous or intermittent compliance. Sections A and B are to be certified as a group of permit conditions. Section C shall be certified individually for each operational and emissions limit condition as listed in the Special Conditions section of the permit (list all applicable equipment for each condition). Any deviations shall also be listed individually and described in Section D. The facility may substitute its own generated form in verbatim for Sections C and D.

A. Attachment I, Standard Conditions

Permit term/condition	Equipment	Compliance
All standard conditions	All Equipment listed in the permit	☐ Continuous ☐ Intermittent

B. Special Conditions - Monitoring, Recordkeeping, Reporting, and Testing

Permit term/condition	Equipment	Compliance
All monitoring conditions	All Equipment listed in the permit	☐ Continuous ☐ Intermittent
Permit term/condition	Equipment	Compliance
All recordkeeping conditions	All Equipment listed in the permit	☐ Continuous ☐ Intermittent
Permit term/condition	Equipment	Compliance
All reporting conditions	All Equipment listed in the permit	☐ Continuous ☐ Intermittent
Permit term/condition	Equipment	Compliance
All testing conditions	All Equipment listed in the permit	☐ Continuous ☐ Intermittent
Permit term/condition	Equipment	Compliance
All INSIG conditions	All Equipment listed in the permit	☐ Continuous ☐ Intermittent

COMPLIANCE CERTIFICATION FORM
TEMPORARY COVERED SOURCE PERMIT NO. 0925-01-CT
(CONTINUED, PAGE ___ OF ___)

Issuance Date: DATE **Expiration Date: DATE**

(Make Copies for Future Use)

C. Special Conditions - Operational and Emissions Limitations

Each permit term/condition shall be identified in chronological order using attachment and section numbers (e.g., Attachment II, Special Condition No. B.1.a, etc.). Each piece of equipment shall be identified using the description stated in Section A of the Special Conditions (e.g., unit no., model no., serial no., etc.). Check all methods (as required by permit) used to determine the compliance status of the respective permit term/condition.

Permit Term/Condition	Equipment	Method	Compliance
		☐ Monitoring ☐ Recordkeeping ☐ Reporting ☐ Testing ☐ None of the above	☐ Continuous ☐ Intermittent
		☐ Monitoring ☐ Recordkeeping ☐ Reporting ☐ Testing ☐ None of the above	☐ Continuous ☐ Intermittent
		☐ Monitoring ☐ Recordkeeping ☐ Reporting ☐ Testing ☐ None of the above	☐ Continuous ☐ Intermittent
		☐ Monitoring ☐ Recordkeeping ☐ Reporting ☐ Testing ☐ None of the above	☐ Continuous ☐ Intermittent
		☐ Monitoring ☐ Recordkeeping ☐ Reporting ☐ Testing ☐ None of the above	☐ Continuous ☐ Intermittent
		☐ Monitoring ☐ Recordkeeping ☐ Reporting ☐ Testing ☐ None of the above	☐ Continuous ☐ Intermittent
		☐ Monitoring ☐ Recordkeeping ☐ Reporting ☐ Testing ☐ None of the above	☐ Continuous ☐ Intermittent

COMPLIANCE CERTIFICATION FORM
TEMPORARY COVERED SOURCE PERMIT NO. 0925-01-CT
(CONTINUED, PAGE ___ OF ___)

Issuance Date: DATE **Expiration Date: DATE**

(Make Copies for Future Use)

D. Deviations

Permit Term / Condition	**Equipment / Brief Summary of Deviation**	**Deviation Period** time (am/pm) & date (mo/day/yr)	**Date of Written Deviation Report to DOH** (mo/day/yr)
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	

*Identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred.

ANNUAL EMISSIONS REPORT FORM
CRUSHING AND SCREENING PLANT
TEMPORARY COVERED SOURCE PERMIT NO. 0925-01-CT

Issuance Date: DATE **Expiration Date: DATE**

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the nature and amounts of emissions:

(Make Copies for Future Use)

For Reporting Period:_____ Date:_____

Company Name:_____

Facility Name:_____

Equipment Location:_____

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate, and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.

Responsible Official (Print):_____

Title:_____ Phone Number:_____

Responsible Official (Signature):_____

1. Report the air pollution control measures used for the facility:

Type of Operation	Air Pollution Control Measures in Use	Control Efficiency (% Reduction)
Truck Loading		
Truck Unloading		
Crushing		
Screening		
Conveyor Transfer		
Stockpiles		

Note: Control measures include water sprays, housing and duct work to baghouses.
Use the following Control Efficiencies, unless documentation is available to show otherwise:
Baghouses: 99%
Water sprays, or Shroud: 70%
*Subsequent transfer points of water sprayed material: 70-(5*n)%*
Efficiency factors may be reduced by the Department of Health, if there are any indications that a source's air pollution control device is not operating at the specified efficiency.

2. Report the total tons of material processed by the crusher and screener for the calendar year:

Equipment	Serial No. (PIN)	Material Processed (tons/yr)
308 TPH Powerscreen crusher, Premiertrak 330	PIDPT330POMLA3657	
441 TPH Powerscreen screener, Chieftain 1400	PID00066CDGKB1692	

MONITORING REPORT FORM
OPACITY EXCEEDANCES
TEMPORARY COVERED SOURCE PERMIT NO. 0925-01-CT

Issuance Date: DATE **Expiration Date: DATE**

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information **semi-annually**:

(Make Copies for Future Use)

For Reporting Period:_____ Date:_____

Company Name:_____

Facility Name:_____

Equipment Location:_____

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate, and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.

Responsible Official (Print):_____

Title:_____ Phone Number:_____

Responsible Official (Signature):_____

Visible Emissions (VE):
Report the following on the lines provided below: all date(s) and six (6) minute average opacity reading(s) which the opacity limit was exceeded during the monthly observations; or if there were no exceedances during the monthly observations, then write “no exceedances” in the comment column.

Equipment or Emission Point Description	Serial / ID No.	Date	6 Minute Average (%)	Comments

CHANGE OF LOCATION REQUEST
FOR A TEMPORARY SOURCE
TEMPORARY COVERED SOURCE PERMIT NO. 0925-01-CT
(PAGE 1 OF 3)

Issuance Date: DATE **Expiration Date: DATE**

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall provide the following information to the Department of Health:

(Make Copies for Future Use)

1. For all location changes, the permittee shall complete and submit this change of location request form to the Department of Health for approval **at least thirty (30) days prior to the change in location**, or such lesser time as designated and approved by the Department of Health.

2. With each change of location request, the permittee shall submit to the Department of Health:

   a. A map of the proposed new temporary location showing the property boundary, fence lines, location of the equipment on the property, and the location of any other air pollution sources owned and operated by the permittee at the new location; and
   b. An area map showing the proposed new temporary location.

3. The permittee shall submit a filing fee with each change in location request. The filing fee shall be made payable to the **Clean Air Special Fund-COV** and is as follows:

   Covered Sources
   _X_ $100.00 for Non-Air Toxic
   ____ $300.00 for Air Toxic

4. The permittee shall submit any additional information as requested by the Department of Health.

5. This **Change of Location Request for a Temporary Source** form shall be mailed to the following address:

State of Hawaii
Clean Air Branch
2827 Waimano Home Road, #130
Pearl City, HI 96782

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1. Prior to any relocation, the Department of Health shall approve, conditionally approve, or deny in writing each location change. If the Department of Health denies a location change, the applicant may appeal the decision pursuant to Hawaii Revised Statutes (HRS), Chapter 91.
2. The change of location approval, or a copy thereof, shall be maintained near the source and shall be made available for inspection upon request by the Department of Health.
3. At each new authorized location, the permittee shall operate in accordance with the current temporary covered source permit (CSP) and all applicable requirements.

CHANGE OF LOCATION REQUEST
FOR A TEMPORARY SOURCE
TEMPORARY COVERED SOURCE PERMIT NO. 0925-01-CT
(CONTINUED, PAGE 2 OF 3)

Issuance Date: DATE **Expiration Date: DATE**

(Make Copies for Future Use)

1. Company Name:_____
2. Mailing Address:_____
   City:_____ State:_____ Zip Code:_____
   Phone Number:_____
3. Name of Owner/Owner's Agent:_____
   Title:_____ Phone Number:_____
4. Equipment Description (identify each equipment to be relocated):_____
5. Current Location of Equipment:_____
6. **New Location Information**
   a. Street Address:_____
   b. City:_____ Zip Code:_____ Island: _____
   c. For sites with no street address, provide:
      Description of location:_____
      Or, Tax map key:_____
      Or, UTM Coordinates: Zone:____Easting:_____m E, Northing:_____m N
      Horizontal Datum:_____
   d. Plant Manager/Contact:_____ Phone Number:_____
   e. Proposed start date at new location:_____
   f. Estimate project duration at new location:_____
   g. Identify any other air pollution sources owned and operated by the permittee at the new location:_____
   h. Brief description of the work to be performed:_____

CHANGE OF LOCATION REQUEST
FOR A TEMPORARY SOURCE
TEMPORARY COVERED SOURCE PERMIT NO. 0925-01-CT
(CONTINUED, PAGE 3 OF 3)

Issuance Date: DATE **Expiration Date: DATE**

(Make Copies for Future Use)

i. Provide estimated distances to the nearest residence and/or occupied establishments (e.g. schools, businesses, etc.):

Distance[1]	Identify if residence, school, business, etc.

[1]Include units, e.g. feet, miles

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record. I further state that no modifications will be made to the equipment and operational methods will remain similar as permitted under the current temporary CSP at this new location.

Responsible Official (Print):_____ Date:_____

Title:_____

Responsible Official (Signature):_____

VISIBLE EMISSIONS FORM REQUIREMENTS
STATE OF HAWAII
TEMPORARY COVERED SOURCE PERMIT NO. 0925-01-CT

Issuance Date: DATE **Expiration Date: DATE**

The **Visible Emissions (VE) Form** shall be completed **monthly** (*each calendar month*) for each equipment subject to opacity limits by a certified reader in accordance with 40 CFR Part 60, Appendix A, Method 9, or U.S. EPA approved equivalent methods, or alternative methods with prior written approval from the Department of Health and U.S. EPA. The VE Form shall be completed as follows:

1. VE observations shall take place during the day only. The opacity shall be noted in five (5) percent increments (e.g., 25%).

2. Orient the sun within a one hundred forty (140) degree sector to your back. Provide a source layout sketch on the VE Form using the symbols as shown.

3. For VE observations of stacks, stand at least three (3) stack heights but not more than a quarter mile from the stack.

4. For VE observations of fugitive emissions from crushing and screening plants, stand at least 4.57 meters (15 feet) from the VE source, but not more than a quarter mile from the VE source.

5. Two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals for each stack or emission point.

6. The six (6) minute average opacity reading shall be calculated for each observation.

7. If possible, the observations shall be performed as follows:

    a. Read from where the line of sight is at right angles to the wind direction.
    b. The line of sight shall not include more than one (1) plume at a time.
    c. Read at the point in the plume with the greatest opacity (without condensed water vapor), ideally while the plume is no wider than the stack diameter.
    d. Read the plume at fifteen (15) second intervals only. Do not read continuously.
    e. The equipment shall be operating at the maximum permitted capacity.

8. If the equipment was shut-down for that period, briefly explain the reason for shut-down in the comment column.

The permittee shall retain the completed VE Forms for recordkeeping. These records shall be in a permanent form suitable for inspection, retained for a minimum of five (5) years, and made available to the Department of Health, or their representative upon request.

Any required initial and annual performance test performed in accordance with Method 9 by a certified reader shall satisfy the respective equipment's VE monitoring requirements for the month the performance test is performed.

DRAFT

VISIBLE EMISSIONS FORM
TEMPORARY COVERED SOURCE PERMIT NO. 0925-01-CT

Issuance Date: DATE **Expiration Date: DATE**

(Make Copies for Future Use for Each Stack or Emission Point)

Company Name:_____

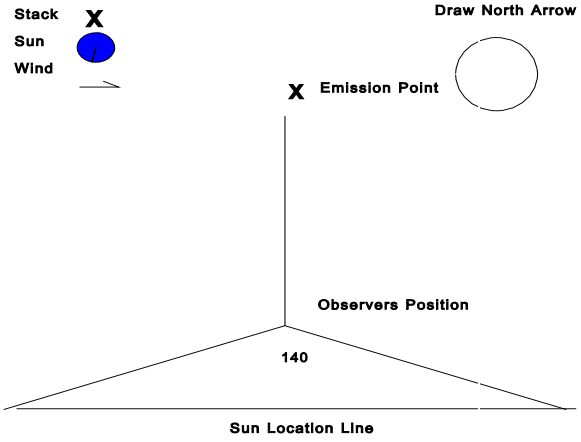
For stacks, describe equipment and fuel:_____

For fugitive emissions from crushers and screens, describe:

Fugitive emission point:_____

Plant Production (tons/hr):_____

(During observation)



Site Conditions:

Emission point or stack height above ground (ft):_____

Emission point or stack distance from observer (ft):_____

Emission color (black or white):_____

Sky conditions (% cloud cover):_____

Wind speed (mph):_____

Temperature (ºF):_____

Observer Name:_____

Certified? (Yes/No):_____

Observation Date and Start Time:_____

	Seconds				
MINUTES	0	15	30	45	COMMENTS
1					
2					
3					
4					
5					
6					
Six (6) Minute Average Opacity Reading (%):					

Observation Date and Start Time:_____

	Seconds				
MINUTES	0	15	30	45	COMMENTS
1					
2					
3					
4					
5					
6					
Six (6) Minute Average Opacity Reading (%):					

Draft Review Summary

PERMIT APPLICATION REVIEW
TEMPORARY COVERED SOURCE PERMIT (CSP) NO. 0925-01-CT
Application No. 0925-01 for Initial Permit

Company: Pacific Concrete Cutting & Coring, Inc.

Mailing Address: P.O. Box 662261
Lihue, Hawaii 96766

Facility: Crushing and Screening Plant

Location:
1. Ehiku Street, Lihue, Island of Kauai
   UTM: 4Q; 461,409 m E, 2,431,092 m N (NAD-83)
2. Various Temporary Sites, State of Hawaii

SIC Code: 1442 Construction Sand and Gravel

Responsible Official: Mr. Eli Brainerd
President
(808) 245-7171

Contact Official: Same as above

PROPOSED PROJECT

Pacific Concrete Cutting & Coring, Inc. (Permittee) submitted an application for an initial temporary CSP to operate a 308 tons per hour (TPH) Powerscreen self-propelled jaw crusher and a 441 TPH Powerscreen self-propelled screener. The 441 TPH Powerscreen self-propelled screener is also currently permitted and will remain permitted under Temporary CSP No. 0872-01-CT. This review conservatively evaluates the potential emissions for all equipment operating independently with unlimited hours. In accordance with Hawaii Administrative Rules (HAR) 11-60.1-82(d)(4), the diesel engines (DEs) equipped on the self-propelled crusher and screener are exempt.

The Applicant will be processing rocks and/or unpainted concrete suitable for crushing and recycling. Materials will be loaded onto the jaw crusher by front-end loader or conveyor belt. The screener may work in conjunction with the crusher or independently to separate the materials into different sizes. Water sprays will be utilized to control fugitive emissions from the crusher, screener, conveyors, stone processing area, storage piles, and unpaved roads as needed.

As an overview, the Permittee currently has a total of five (5) permitted and proposed temporary CSPs at the subject location, which includes 0659-01-CT (permitted), 0673-01-CT (permitted), 0872-01-CT (permitted), 0907-01-CT (proposed), and 0925-01-CT (proposed). Although the Permittee proposed to operate the equipment at various temporary locations in the State of Hawaii, the initial location at the base yard on Ehiku Street has been assessed to ensure

emissions are below major source levels. Based on the potential emissions in the table below, the Permittee's combined operation of the permitted/proposed crushers and DE at this location has the potential to emit less than 100 tons per year (TPY) of any air pollutant subject to regulation and less than 10 TPY for a single hazardous air pollutant (HAP). Therefore, this is not a major source.

Temporary CSP No.	Equipment	Emissions (TPY)[1]							
		CO	NO_x	SO_2	VOC	HAPs	PM	PM_{10}	$PM_{2.5}$
0659-01-CT	507 TPH Komatsu jaw crusher	-	-	-	-	-	9.30	3.51	0.52
0673-01-CT	250 TPH Hartl impact crusher	-	-	-	-	-	1.31	0.591	0.110
	165 TPH Rubble Master impact crusher	-	-	-	-	-	0.87	0.390	0.072
0872-01-CT	353 TPH Powerscreen Impact crusher	-	-	-	-	-	1.86	0.835	0.155
0907-01-CT	300 TPH Eagle impact crusher	-	-	-	-	-	1.58	0.710	0.131
	456 HP Caterpillar DE	14.4	1.64	0.02	4.6	0.09	0.08	0.079	0.074
0925-01-CT	308 TPH Powerscreen jaw crusher	-	-	-	-	-	1.62	0.728	0.135
Total Potential Location Emissions		**14.4**	**1.64**	**0.02**	**4.6**	**0.09**	**16.6**	**6.8**	**1.2**

[1]Includes only point source emissions and emissions considered reasonably capturable.

EQUIPMENT DESCRIPTION

1. 308 TPH Powerscreen jaw crusher, Model Premiertrak 330, Serial No. (PIN)* PIDPT330POMLA3657, with water spray system, Manufactured in 2020 (Self-Propelled), (propelled by an **exempt** 320 horsepower (hp) Caterpillar DE, Model No. C7.1, Serial No. 88108621, manufactured in 2020);
2. **441 TPH Powerscreen screener, 2-deck, Model Chieftain 1400, Serial No. (PIN)* PID00066CDGKB1692, Manufactured in 2019 (Self-Propelled), (propelled by an **exempt** 82 kW Caterpillar DE, Model No. C4.4, Serial No. JKT14530, manufactured in 2019);
3. Various conveyors; and
4. Water sprays.

*Product Identification Number (PIN)
**The equipment is currently permitted under Temporary CSP No. 0872-01-CT and will continue to be permitted under Temporary CSP No. 0872-01-CT.

AIR POLLUTION CONTROLS

The crusher is equipped with a built-in water spray system. The screener and conveyors are not equipped with water spray system and rely on carryover from the crusher's water sprays to wet the materials when operating together. When the screener is operating independently, a water truck will be used to wet the materials prior to screening operation. Water sprays will also be used as needed to minimize fugitive dust from crushing, screening, material transfer points, storage piles, and unpaved roads.

APPLICABLE AND NON-APPLICABLE REQUIREMENTS

Hawaii Administrative Rules (HAR)
Title 11, Chapter 59, Ambient Air Quality Standards
Title 11, Chapter 60.1, Air Pollution Control
- Subchapter 1, General Requirements
- Subchapter 2, General Prohibitions
  - 11-60.1-31, Applicability
  - 11-60.1-32, Visible Emissions
  - 11-60.1-33, Fugitive Dust
- Subchapter 5, Covered Sources
- Subchapter 6, Fees for Covered Sources, Noncovered Sources, and Agricultural Burning
  - 11-60.1-111, Definitions
  - 11-60.1-112, General Fee Provisions for Covered sources
  - 11-60.1-113, Application Fees for Covered sources
  - 11-60.1-114, Annual Fees for Covered sources
  - 11-60.1-115, Basis of Annual Fees for Covered Sources
- Subchapter 8, Standards of Performance for Stationary Sources
  - 11-60.1-161, New Source Performance Standards
- Subchapter 10, Field Citations

Prevention of Significant Deterioration (PSD), 40 Code of Federal Regulations (CFR) Part 52, §52.21
PSD does not apply. The facility is not a listed source in the definition of "major stationary source" of 40 CFR §52.21 and HAR §11-60.1-131, and potential emissions from the facility are less than 250 TPY, which is the trigger level for a non-listed source.

Standard of Performance for New Stationary Sources (NSPS), 40 (CFR) Part 60
Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants is applicable to the self-propelled crusher and screener because they were manufactured after August 31, 1983, and the crusher has a maximum capacity greater than 150 TPH. The Powerscreen, Model Premiertrak 330, jaw crusher was manufactured in 2020, and the Powerscreen, Model Chieftain 1400, screener was manufactured in 2019.

Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (CI ICE) is not applicable to the DEs equipped on the self-propelled crusher and screener because the engines will operate as nonroad engines as defined in 40 CFR §1068.30. Subpart IIII applies to stationary CI ICE that are not nonroad engines.

National Emission Standards for Hazardous Air Pollutants (NESHAPs), 40 CFR Part 61
This source is not regulated by 40 CFR Part 61 NESHAPs.

NESHAPs for Source Categories, 40 CFR Part 63
Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE) is not applicable to the DEs equipped on the self-propelled crusher and screener because the DEs will operate as nonroad engines as defined in 40 CFR §1068.30. Subpart ZZZZ applies to stationary RICE that are not nonroad engines.

Compliance Assurance Monitoring (CAM), 40 CFR Part 64
This source is not subject to CAM because the facility is not a major source. The purpose of CAM is to provide a reasonable assurance that compliance is being achieved with large emissions units that rely on air pollution control device equipment to meet an emissions limit or standard. Pursuant to 40 CFR Part 64, §64.2(a), for CAM to be applicable, the emissions unit must:

(1) Be located at a major source;
(2) Be subject to an emissions limit or standard;
(3) Use a control device to achieve compliance;
(4) Have potential pre-control emissions that are equal to or greater than 100% of the major source level; and
(5) Not otherwise be exempt from CAM.

CAM is not applicable because potential emissions are below major source thresholds.

Air Emissions Reporting Requirements (AERR), 40 CFR Part 51, Subpart A
Except for the crusher and DEs, emissions from this facility are fugitive in nature, not capturable, and the operations do not belong to one of the categories of sources listed in the definition of "major source" or "major stationary source" where fugitive emissions shall be considered in the determination.

The DEs equipped on the crusher and screener are considered as nonroad mobile source. Emissions from nonroad mobile sources are either reported using the latest mobile emissions models developed by the United States Environmental Protection Agency (EPA) or by the state accepting existing EPA emission estimates. For these reasons, emissions from the DEs are not included in the AERR determination.

AERR is not applicable because potentially capturable fugitive emissions from the crusher are below AERR thresholds for Type A and Type B sources as specified in 40 CFR Part 51, Subpart A, Appendix A, Table 1, and emissions from nonroad mobile sources are not included in the determination of a stationary source's AERR applicability.

Department of Health (DOH), Clean Air Branch (CAB), In-house Annual Emissions Reporting
The CAB requires annual emissions reporting from those noncovered source facilities that have facility wide emissions exceeding in-house reporting levels and for all covered sources. Annual emissions reporting is required because this facility is a covered source.

Best Available Control Technology (BACT)
BACT means an emissions limitation, including a visible emission, based on the maximum degree of reduction for each regulated air pollutant which would be emitted from any proposed stationary source or modification which, on a case-by-case basis, the Director, taking into account energy, environmental, and economic impacts and other costs, determines is achievable.

A BACT analysis is required for new or modified sources if the net increase in pollutant emissions exceeds significant levels as defined in HAR §11-60.1-1. The proposed facility is not subject to a BACT analysis because emissions from the crusher are below significant levels, screener emissions are fugitive and are not considered capturable, and emissions from nonroad

mobile sources are not included in the determination. Since this is not a listed source category, non-capturable fugitive emissions are not considered in the applicability determination. Although not subject to BACT analysis, water sprays will be used to control fugitive emissions throughout the facility.

EXEMPT EQUIPMENT AND INSIGNIFICANT ACTIVITY

Exempt Equipment

The Applicant has two (2) DEs for the propelling of mobile sources that are exempt in accordance with HAR §11-60.1-82(d)(4) as follows:

1. 320 hp Caterpillar DE, Model No. C7.1, Serial No. 88108621,
   (for the propelling of the 308 TPH Powerscreen self-propelled jaw crusher (track-mounted), Model Premiertrak 330, Serial No. (PIN) PIDPT330POMLA3657); and
2. 82 kW Caterpillar DE, Model No. C4.4, Serial No. JKT14530
   (for the propelling of the 441 TPH Powerscreen self-propelled screener (track-mounted), Model Chieftain 1400, Serial No. (PIN) PID00066CDGKB1692).

ALTERNATIVE OPERATING SCENARIOS

None.

PROJECT EMISSIONS

Emissions are conservatively based on the crushing and screening plants operating at 8,760 hours per year (hrs/yr). The manufacturer's maximum combined processing capacity of 749 TPH for the crusher and screener are used to calculate potential particulate matter (PM) emissions. The crusher is equipped with built-in water spray system. Additional water sprays will be used as needed to minimize fugitive dust from screening operation, material transfer points, unpaved roads, and storage piles.

Potential emissions are based on controlled emission factors (EFs) for the crusher and equipped conveyors, and uncontrolled EFs for the screener, conveyors, truck loading, truck unloading, taken from AP-42, Fifth Edition, Chapter 11, Section 11.19.2 – Crushed Stone Processing and Pulverized Mineral Processing (08/04). Truck loading and truck unloading are assumed to process 749 TPH of materials (the combined capacity of the crusher and screener), and conveyors are assumed to process according to the equipment capacities. Storage pile emissions are based on uncontrolled EFs from AP-42, Chapter 13 – Miscellaneous Sources (Chapter 13), Section 13.2.4 – Aggregate Handling and Storage Piles (11/06). Potential emissions for vehicle travel on unpaved roads are based on uncontrolled EFs from AP-42, Chapter 13, Section 13.2.2 – Unpaved Roads (11/06). A seventy percent (70%) control efficiency was applied for fugitive dust suppression from water spraying the screener, screener's conveyors, truck loading, truck unloading, unpaved roads, and storage piles as estimated in AP-42, Chapter 11, Section 11.19.1.2 – Emissions and Controls (11/95).

Self-Propelled Crushing and Screening Plants

Self-Propelled Crushing and Screening Plants		
Pollutant	308 TPH Crusher Emissions (TPY)	441 TPH Screener Emissions (TPY)
	Unlimited 8,760 hrs/yr	Unlimited 8,760 hrs/yr
PM	1.62	67.6
PM_{10}	0.73	17.3
$PM_{2.5}$	0.14	10.1

Truck Loading, Truck Unloading, Conveyors, Storage Pile, and Unpaved Road

Truck Loading, Truck Unloading, Conveyors, Storage Piles, and Unpaved Roads					
Pollutant	Truck Loading (TPY)	Truck Unloading (TPY)	Conveyors Transfer Points (8x) (TPY)	Unpaved Road Emissions (TPY)	Storage Piles Emissions (TPY)
	Unlimited 8,760 hrs/yr	Unlimited 8,760 hrs/yr	Unlimited 8,760 hrs/yr	Unlimited 8,760 hrs/yr	Unlimited 8,760 hrs/yr
PM	0.193	0.031	1.93	31.9	7.8
PM_{10}	0.098	0.016	0.70	7.8	3.7
$PM_{2.5}$	0.029	0.005	0.28	0.8	0.6

HAPs Assessment

A HAPs assessment was not conducted for this review because the proposed crushing and screening plants emit only fugitive PM and are equipped with exempt DEs.

Project Emissions Summary

Project Emissions Summary[1,2,3,4,5]			
Pollutant	Total Facility Emissions (TPY)	Reasonably Capturable Fugitive Emissions (TPY)	Non-Capturable Fugitive Emissions (TPY)
	Unlimited 8,760 hrs/yr	Unlimited 8,760 hrs/yr	Unlimited 8,760 hrs/yr
CO	0	0	0
NO_x	0	0	0
SO_2	0	0	0
PM	111.1	1.6	109.5
PM_{10}	30.3	0.7	29.6
$PM_{2.5}$	11.9	0.1	11.8
VOC	0	0	0
HAPs	0	0	0

[1]Total Facility Emissions include capturable and non-capturable fugitive emissions.
[2]Reasonably capturable fugitive emissions include emissions from the crusher.
[3]Non-capturable fugitive emissions include emissions from screener, truck unloading, truck loading, conveyors, unpaved roads, and storage piles.
[4]Carbon monoxide (CO), nitrogen oxides (NO_x), sulfur dioxide (SO_2), volatile organic compounds (VOC), and hazardous air pollutants (HAPs) emissions are not emitted from the permitted crushing and screening activities.
[5]This facility is permitted to operate 8,760 hrs/yr.

Synthetic Minor Source

A synthetic minor source means a source that otherwise has the potential to emit regulated New Source Review (NSR) pollutants in the amounts at or above the thresholds for major sources but has taken restrictions, so that its potential to emit is less than such amounts for major sources. Since this is not a listed source in the definition of "Major Source" in HAR §11-60.1-1, non-capturable fugitive emissions from screener, truck loading, truck unloading, conveyors, unpaved roads, and storage piles, are not included in the major source determination in accordance with the HAR §11-60.1-1. Only fugitive emissions from the crusher are considered capturable. Furthermore, the DEs are considered nonroad engines whose emissions are not included in major source determination.

This facility is not a synthetic minor source because the facility does not have the potential to emit point source and capturable fugitive emissions above the major source threshold if operated 8,760 hours per year. See the Proposed Project section that demonstrates the operation of equipment from multiple permits on the same site does not have the potential to emit at or above major source levels.

AIR QUALITY ASSESSMENT

An ambient air quality assessment is not required for this facility. The crusher and screener generate fugitive emissions which are not generally modeled by the Clean Air Branch.

SIGNIFICANT PERMIT CONDITIONS

1. Fugitive Emission Limits

    a. The permittee shall not cause to be discharged into the atmosphere from the crusher, fugitive emissions which exhibit greater than twelve percent (12%) opacity.
    b. The permittee shall not cause to be discharged into the atmosphere from any transfer point on the belt screening operation, belt conveyors, or from any other affected facility, fugitive emissions which exhibit greater than seven percent (7%) opacity.

    Reason: The opacity and fugitive dust conditions are incorporated into the permit pursuant to 40 CFR Part 60, Subpart OOO, and HAR §11-60.1-33, respectively.

2. Change of Locations

   a. The operation of the equipment covered by this temporary CSP shall involve at least one (1) location change during the term of this permit. **Moving within a single property is not considered a location change.**
   b. Location changes of the equipment shall be in accordance with Special Conditions, Attachment II, Special Conditions, Section G. For each change in location, the Department reserves the right to impose additional operational controls and restrictions if a site evaluation indicates the controls and/or restrictions are necessary.

   Reason: The one (1) location change during the term of the permit was incorporated into the permit pursuant to the "temporary covered source" definition specified under HAR §11-60.1-81.

CONCLUSION

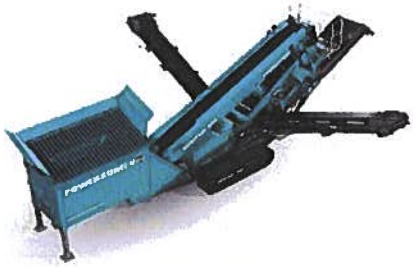
Pacific Concrete Cutting & Coring, Inc., is requesting for a permit to operate a 308 TPH self-propelled jaw crusher and a 441 TPH Powerscreen self-propelled screener. The crusher and screener may be operated together or independently with no hour limitations. The crusher and screener are each equipped with a DE propelling the unit that is exempt in accordance with the HAR §11-60.1-82(d)(4). Issuance of a temporary CSP is recommended based on the review of the information provided by the Applicant and subject to the permit conditions. The proposed permit is subject to a thirty (30) day public comment period and forty-five (45) day EPA review period.

Ukris Wongse-ont
February 6, 2026

Application
and
Supporting Information

APPLICATION FOR A NEW TEMPORARY COVERED SOURCE PERMIT (HAR 11-60.1-83 & 11-60.1-91)

For
308 TPH Powerscreen Premiertrak 330 Jaw Crusher
located at
Various Temporary Sites, State of Hawaii



FACILITY NAME:

Crushing and Screening Plant

OWNER:

Pacific Concrete Cutting & Coring, Inc. (PCCC)
P.O. Box 662261
Lihue, Hawaii 96766

January 21, 2025

PREPARED BY:

CFM Environmental LLC
Tel.: (808) 779-2948
Email: fredpeyer@gmail.com

Ref. # 2501001

Introduction

This is an application for a new temporary covered source permit for a 308 TPH self-propelled mobile Powerscreen Premiertrak 330 jaw crusher, serial no PIDPT330POMLA3657, powered by a Caterpillar C7.1 diesel engine , and a self-propelled mobile Powerscreen Chieftain 1400 two-deck screen. Serial no. PID00066CDGKB1692, powered by a Caterpillar C4.4 diesel engine (also permitted on permit no. 0872-01-CT), initial location at PCCC yard, Lihue, HI 96766, owned and operated by Pacific Concrete Cutting & Coring, Inc., P.O. Box 662261, Lihue, HI 96766.

There shall be no hourly limitations on equipment operations. The two pieces of equipment may work together at the same time and location, or separately and simultaneously at different locations.

This is a temporary permit application where the equipment will be moved at least once per year.

Note:
The crusher and the screener are self-propelled mobile, with the engines propelling the units. The two engines are therefore exempt pursuant to HAR 11-60.1-82(d)(4), which exempts internal combustion engines propelling mobile sources.

Alternate operating scenario: The permittee may replace any diesel engine with an engine of the same size or smaller if warranted by breakdown of the existing engine.

TABLE OF CONTENTS

Standard Application Form S-1

File/Application No.: _____

STANDARD PERMIT APPLICATION FORM
HAWAII DEPARTMENT OF HEALTH
ENVIRONMENTAL MANAGEMENT DIVISION
CLEAN AIR BRANCH
P.O. Box 3378 • Honolulu, HI 96801-3378 • Phone: (808) 586-4200

1. Company Name: **PACIFIC CONCRETE CUTTING & CORING, INC.**

2. Facility Name (if different from the Company): **Crushing and Screening Plants**

3. Mailing Address: **P.O. Box 662281**

   City: **Lihue** State: **HI** Zip Code: **96766**

   Phone Number: **(808) 245-7171**

4. Name of Owner/Owner's Agent: **Eli Brainerd**

   Title: **President** Phone: **(808) 245-7171**

   Mailing Address: **P.O. Box 662281**

   City: **Lihue** State: **HI** Zip Code: **96766**

5. Plant Site Manager/Other Contact: **Eli Brainerd**

   Title: **President** Phone: **(808) 245-7171**

   Mailing Address: **P.O. Box 662281**

   City: **Lihue** State: **HI** Zip Code: **96766**

6. Permit Application Basis: (Check One.)

Initial Permit for a New Source	Initial Permit for an Existing Source
Renewal of Existing Permit	General Permit
X Temporary Source	Transfer of Permit
Modification: ===> Is Modification?	Significant Minor Uncertain

7. If renewal or modification, include existing permit number:

8. Does the Proposed Source require a County Special Management Area Permit? Yes **X** No

9. Type of Source (Check One): **X** Covered Source Covered and PSD Source
   Noncovered Source Uncertain

10. Standard Industrial Classification Code (SICC), if known: **1442**

11. Proposed Equipment/Plant Location Address: **Ehiku Street**
City: **Lihue** State: **HI** Zip Code: **96766**

UTM Coordinates: **Zone 4, 461,409 m East / 2,431,092 m North**

12. General Nature of Business: **Mobile Crushing and Screening Plant**

13. Date of Planned Commencement of Construction or Modification: **upon approval**

14. Is ***any*** of the equipment to be leased to another individual or entity? Yes **X** No

15. Type of Organization: **X** Corporation Individual Owner Partnership
Government Agency (Government Facility Code:
Other:

Any applicant for a permit who fails to submit any relevant facts or who has submitted incorrect information in any permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. In addition, an applicant shall provide additional information as necessary to address any requirements that become applicable to the source after the date it filed a complete application, but prior to the issuance of the noncovered source permit or release of a draft covered source permit. (§11-60.1-64 & 11-60.1-84)

RESPONSIBLE OFFICIAL (as defined in §11-60.1-1):

Name (Last): **Brainerd** (First): **Eli** (MI):

Title: **President** Phone: **(808) 245-7171**

Mailing Address: **P.O. Box 662281**

City: **Lihue** State: **HI** Zip Code: **96766**

CERTIFICATION by Responsible Official (pursuant to §11-60.1-4)

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record. I further state that I will assume responsibility for the construction, modification, or operation of the source in accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution control, and any permit issued thereof.

NAME (Print/Type): **Eli Brainerd, President**

(Signature): Eli Brainerd Date: 1/21/25

COMPANY NAME: **PACIFIC CONCRETE CUTTING & CORING, INC.** FILE NO:

LOCATION: **VARIOUS LOCATIONS STATE OF HAWAII** PAGE 1 OF 2

(Make as many copies of this page as necessary)

EMISSIONS UNITS TABLE

REVIEW OF APPLICATIONS AND ISSUANCE OF PERMITS WILL BE EXPEDITED BY SUPPLYING ALL NECESSARY INFORMATION ON THIS TABLE.

AIR POLLUTANT DATA: EMISSION POINTS				AIR POLLUTANT	AIR POLLUTANT EMISSION RATE		UTM COORDINATES			STACK SOURCE PARAMETERS					
STACK NO.	UNIT NO.	EQUIPMENT NAME/ DESCRIPTION AND SICC CODE	EQUIP. DATE	REGULATED HAZARD. AIR POLLUT. NAME	# / HOUR	TONS/ YEAR	ZONE	EAST (M)	NORTH (M)	HEIGHT ABOVE GROUND (M)	DIRECT.	INSIDE DIA. (M)	VEL (M/S)	ACTUAL FLOW RATE (M3/S)	TEMP. DEGREE K
		308 TPH Premiertrak 330 Jaw Crusher					**4**	**461, 409**	**2,431, 092**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
		Activity uncontrolled:			**TSP Lb/hr**	**TSP TPY**				**PM10 Lb/hr**	**PM10 TPY**	**PM2.5 Lb/hr**	**PM2.5 TPY**		
		Primary Crushing		**Fugitive Dust**	0.739	3.238				0.739	3.238	0.222	0.971		
		Transfer Points		**Fugitive Dust**	3.696	16.188				1.355	5.936	0.407	1.781		
		Truck unloading		**Fugitive Dust**	0.031	0.135				0.031	0.135	0.009	0.040		
		TOTAL UNCONTROLLED		**Fugitive Dust**	**4.466**	**19.561**				**2.125**	**9.309**	**0.638**	**2.792**		
		Less 70% Control		**Fugitive Dust**	3.126	13.693				1.488	6.516	0.447	1.954		
		TOTAL CONTROLLED		**Fugitive Dust**	**1.340**	**5.868**				**0.637**	**2.793**	**0.191**	**0.838**		
		Plant Fugitive Emissions For Crusher & Screen													
		Storage Piles Uncontr.			21.240	93.033				10.048	44.002	3.014	13.201		
		Unpaved Road Uncontr.			10.227	44.795				3.131	13.713	0.313	1.371		
		Total Uncontrolled			**31.467**	**137.82**				**13.179**	**57.715**	**3.327**	**14.572**		
		Less Control 70%			22.027	96.480				9.225	40.401	2.329	10.200		
		TOTAL CONTROLLED			**9.440**	**41.348**				**3.954**	**17.314**	**0.998**	**4.372**		

COMPANY NAME: **PACIFIC CONCRETE CUTTING & CORING, INC.** FILE NO: _____

LOCATION: **VARIOUS LOCATIONS STATE OF HAWAII** PAGE **2** OF **2**

(Make as many copies of this page as necessary)

EMISSIONS UNITS TABLE

REVIEW OF APPLICATIONS AND ISSUANCE OF PERMITS WILL BE EXPEDITED BY SUPPLYING ALL NECESSARY INFORMATION ON THIS TABLE.

AIR POLLUTANT DATA: EMISSION POINTS				AIR POLLUTANT	AIR POLLUTANT EMISSION RATE		UTM COORDINATES			STACK SOURCE PARAMETERS					
STACK NO.	UNIT NO.	EQUIPMENT NAME/ DESCRIPTION AND SICC CODE	EQUIP DATE	REGULATED HAZARD. AIR POLLUT. NAME	# / HOUR	TONS/ YEAR	ZONE	EAST (M)	NORTH (M)	HEIGHT ABOVE GROUND (M)	DIRECT.	INSIDE DIA. (M)	VEL (M/S)	ACTUAL FLOW RATE (M3/S)	TEMP. DEGREE K
		441 TPH CHIEFTAIN 1400 SCREEN					**4**	**461**	**2,431**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
								409	**092**						
		Activity			**TSP Lbs/hr**	**TSP TPY**				**PM10 Lbs/hr**	**PM10 TPY**	**PM2.5 Lbs/hr**	**Pm2.5 TPY**		
		Screening uncontr.			11.025	48.290				3.837	16.805	1.151	5.041		
		Conveyor Transfer uncontr.			5.292	23.179				1.940	8.499	0.582	2.550		
		Truck unloading uncontr.			0.044	0.193				0.044	0.193	0.013	0.058		
		Total uncontrolled			**16.361**	**71.662**				**5.821**	**25.497**	**1.746**	**7.649**		
		Less Control 70%			11.453	50.163				4.075	17.848	1.222	5.354		
		Total Controlled			**4.908**	**21.499**				**1.746**	**7.650**	**0.524**	**2.295**		

File No.: _____

COMPLIANCE PLAN

The Responsible Official shall submit a Compliance Plan with the following permit applications, and at such other times as requested by the director.

- Initial Noncovered Source Permit Application
- Temporary Noncovered Source Permit Application
- General Noncovered Source Permit Application
- Application for a Noncovered Source Permit Renewal
- Application for a Modification to a Noncovered Source
- Initial Covered Source Permit Application
- **X Temporary Covered Source Permit Application**
- General Covered Source Permit Application
- Application for a Covered Source Permit Renewal & Modification
- Application for a Minor Modification to a Covered Source

1. Compliance status with respect to all Applicable Requirements:

Will your facility be in compliance, or Is your facility in compliance, with all applicable requirements in effect at the time of your permit application submittal?

X **YES** {If YES, complete items a and c below}

{If NO, complete items a-c below}

a. Identify all applicable requirement(s) for which compliance is achieved:

Hawaii Administrative Rules (HAR) Title 11
Chapter 11-59, Ambient Air Quality Standards
Chapter 11-60.1 Air Pollution Control
Subchapter 1, General Requirements
Subchapter 2, General Prohibitions
11-60.1-31 Applicability
11-60.1-32 Visible Emissions
11-60.1-33 Fugitive Dust
11-60.1-38 Sulfur Oxides from Fuel Combustion
Subchapter 5, Covered Sources
Subchapter 6, Fees for Covered Sources
Subchapter 8, Standards of Performance for Stationary Sources
11-60.1-161 New Source Performance Standards
Subchapter 9, Hazardous Air Pollutant Sources
40 Code of Federal Regulations (CFR) Part 60 – Standards of Performance for New Stationary Sources
Subpart A – General Provisions
Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants

Provide a statement that the source is in compliance and will continue to comply with all such requirements.
PACIFIC CONCRETE CUTTING & CORING, INC states that the plants to be covered under this application are in compliance with all the above applicable requirements.

b. Identify all applicable requirement(s) for which compliance is NOT achieved:

N/A

Provide a detailed Schedule of Compliance and a description of how the source will achieve compliance with all such applicable requirements. Use separate sheets of paper, if necessary.

Description of Remedial Action	Expected Date of Completion

N/A

c. Identify any other applicable requirement(s) with a future compliance date that your source is subject to. These applicable requirements may be in effect AFTER permit issuance:

Applicable Requirement	Effective Date	Currently in Compliance?

N/A

If the source is not currently in compliance, submit a Schedule of Compliance and a description of how the source will achieve compliance with all such applicable requirements:

Description of Proposed Action/Steps to Achieve Compliance	Expected Date of Achieving Compliance

N/A

Provide a statement that the source on a timely basis will meet all these applicable requirements.

N/A

If the expected date of achieving compliance will NOT meet the applicable requirement's effective date, provide a more detailed description of all remedial actions and the expected dates of completion.

	Expected Date

Description of Remedial Action	of Completion
N/A	

2. Compliance Progress Reports:

   a. If a compliance plan is being submitted to remedy a violation, complete the following information:

   Frequency of Submittal: (less than or equal to 6 months) Beginning Date:

   b. Date(s) that the Action described in (1)(b) was achieved:

Remedial Action	Date Achieved
N/A	

   c. Narrative description of why any date(s) in (1)(b) was not met, and any preventive or corrective measures taken in the interim:

N/A

Certification of Compliance with all Applicable Requirements:

This certification must be signed by a Responsible Official. Applications without a signed certification will be deemed incomplete.

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record. I further state that I will assume responsibility for the construction, modification, or operation of the source in accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, and any permit issued thereof.

Name (Print/Type): **Eli Brainerd, President**

(Signature): _____ Date: 1/21/25

File No.: _____

COMPLIANCE CERTIFICATION

The Responsible Official shall submit a Compliance Certification with the following covered source permit applications, and at such other times as requested by the director. (Complete as many copies of this form as necessary).

- Initial Covered Source Permit Application;
- **X Temporary Covered Source Permit Application;**
- General Covered Source Permit Application;
- Application for a Covered Source Permit Renewal & Modification
- Application for a Significant Modification to a Covered Source.

During the term of a covered source permit, the responsible official shall also submit a Compliance Certification to the director and the Administrator at least every six months, or more frequently as set by an applicable requirement.

INITIAL COVERED SOURCE PERMIT APPLICATION: COMPLETE & SUBMIT THIS COVER PAGE AND SECTION A OF THIS FORM.

DURING THE TERM OF A COVERED SOURCE PERMIT: COMPLETE & SUBMIT THIS COVER PAGE AND SECTION B OF THIS FORM.

Certification of Compliance with all Applicable Requirements:

This certification must be signed by a Responsible Official. Applications without a signed certification will be deemed incomplete.

> I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record. I further state that I will assume responsibility for the construction, modification, or operation of the source in accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution control, and any permit issued thereof.

Name (Print/Type): **Eli Brainerd, President**

(Signature): _____ Date: 1/21/25

Complete the following information for ***each*** applicable requirement and/or term or condition of the permit that applies to ***each*** emissions unit at the source. Also include any additional information as required by the director. The compliance certification may reference information contained in a previous compliance certification submittal to the director, provided such referenced information is certified as being current and still applicable.

A. For compliance certifications submitted with any covered source permit application.

1. Schedule for submission of Compliance Certifications during the term of the permit:

   Frequency of Submittal: **Annual** Beginning Date: **upon issuance of permit**

2. Emissions Unit No./Description: **308 TPH Powerscreen Premiertrak 330 jaw crusher, 441 TPH Powerscreen Chieftain 1400 2-deck screen**

3. Identify the applicable requirement(s) that is/are the basis of this certification:

Hawaii Administrative Rules (HAR) Title 11
- **Chapter 11-59, Ambient Air Quality Standards**
- **Chapter 11-60.1 Air Pollution Control**
  - **Subchapter 1, General Requirements**
  - **Subchapter 2, General Prohibitions**
    - **11-60.1-31 Applicability**
    - **11-60.1-32 Visible Emissions**
    - **11-60.1-33 Fugitive Dust**
    - **11-60.1-38 Sulfur Oxides from Fuel Combustion**
  - **Subchapter 5, Covered Sources**
  - **Subchapter 6, Fees for Covered Sources**
  - **Subchapter 8, Standards of Performance for Stationary Sources**
    - **11-60.1-161 New Source Performance Standards**
  - **Subchapter 9, Hazardous Air Pollutant Sources**

40 Code of Federal Regulations (CFR) Part 60 – Standards of Performance for New Stationary Sources
- **Subpart A – General Provisions**
- **Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants**

4. Compliance status:

   a. Will the emissions unit be in compliance with the identified applicable requirement(s)?

      X YES ◊ NO

   b. If YES, will compliance be continuous or intermittent?

      X Continuous ◊ Intermittent

   c. If NO, explain.

5. The methods to be used in determining compliance of the emissions unit with the applicable requirement(s), including any monitoring, recordkeeping, reporting requirements, and/or test methods:

Annual Source Test
Sulfur in Fuel tested by Supplier
Daily Visual Observations
Monthly Visual Observation by Certified Reader

Provide a detailed description of the methods used to determine compliance: (e.g. monitoring device , type and location, test method description, or parameter being recorded, frequency of recordkeeping, etc.)

Daily Visual Checks
Application of Water Sprays
Record Keeping
Semi-Annual and Annual Emissions Report

6. Statement of Compliance with Enhanced Monitoring and Compliance Certification Requirements.

a. Will the emissions unit identified in this application be in compliance with applicable enhanced monitoring and compliance certification requirements?

N/A ◊ YES ◊ NO

b. If YES, identify the requirements and the provisions being taken to achieve compliance:

N/A

c. If NO, describe below which requirements will not be met:

N/A

FOR AGENCY USE ONLY:

File/Application No.:

Island:

Date Received:

HAR 11-60.1-91 Temporary Covered Source Permit Application

HAR 11-60.1-91 (a) Certification

I certify that it is my intention to operate the same equipment at various temporary locations within the State of Hawaii with similar operational methods.

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.

Eli Brainerd	President	1/21/25
		Date

HAR 11-60.1-91 (b) Temporary Covered Source Application

The application and issuance of a temporary covered source permit is subject to the same procedures and requirements for an initial application and issuance of a covered source permit, including the requirements of section HAR 11-60.1-83.

HAR 11-60.1-83 Covered Cource Permit Application

HAR 11-60.1-83 (1) Company Information

Please see Standard Application Form S-1 on page 5 of this application.

HAR 11-60.1-83 (2) Source Information

Equipment Information:

Crusher:

Manufacturer	: Powerscreen
Year built	: 2020
Model	: Premiertrak 330, self-propelled on tracks
Serial Number	: PIDPT330POMLA3657
Max. Throughput	: 308 TPH

Crusher Engine:

Manufacturer	: Caterpillar
Year Built	: 2020
Model	: C7.1
Serial Number	: 88108621
Max. Power	: 320 HP

The crusher is mobile, with the engine propelling the unit. The engine is therefore exempt pursuant to HAR 11-60.1-82(d)(4), which exempts internal combustion engines propelling mobile sources.

Screen:

Manufacturer	: Powerscreen
Year built	: 2019
Model	: Chieftain 1400, self-propelled on tracks
Serial Number	: PID00066CDGKB1692
Max. Throughput	: 441 TPH

Screen Engine:

Manufacturer	: Caterpillar
Year Built	: 2019
Model	: C4.4
Serial Number	: JKT14530
Size	: 110 HP

The screen is mobile, with the engine propelling the unit. The engine is therefore exempt pursuant to HAR 11-60.1-82(d)(4), which exempts internal combustion engines propelling mobile sources.

Description of Processes and Products

The source falls under SICC code 1442 (Construction Sand and Gravel)

Source material are rocks and/or unpainted concrete.
The plant produces aggregate from larger rocks or unpainted concrete.

The rocks are fed into the crusher either by front-end loader or conveyor belt. Undersize material is separated from the other material in the hopper/feeder and travels on the side conveyor to a different stockpile. All other material is crushed and travels on the main conveyor to a separate stockpile, OR if the 2-deck screen works together with the crusher, the material is transferred from the crusher conveyor to the screen conveyor. It is then separated into three different sizes which travel on separate conveyors to three different stockpiles.

HAR 11-60.1-83 (3) Emissions Trading

N/A, there is no emissions trading.

HAR 11-60.1-83 (4) Maximum Emission Rates

Since all the diesel engines are exempt, the only emissions consist of fugitive dust. Please see Appendix B for emission calculations.

Total maximum TSP Emissions:

Equipment Emissions

Activity	Premiertrak 330 Crusher		Chieftain 1400 Screen		Total	
	Lbs/hr	TPY	Lbs/hr	TPY	Lbs/hr	TPY
Primary Crushing	0.739	3.238	n/a	n/a	0.739	3.238
Screening	n/a	n/a	11.025	48.290	11.025	48.290
Conveyor Transfer Point uncontrolled (4 ea. for crusher and screen)	3.696	16.188	5.292	23.179	8.988	39.367
Truck unloading uncontrolled	0.031	0.135	0.044	0.193	0.075	0.328
TOTAL UNCONTROLLED	**4.466**	**19.561**	**16.361**	**71.662**	**20.827**	**91.223**
Less Control (70%)	3.126	13.693	11.453	50.163	14.579	63.856
TOTAL CONTROLLED	**1.340**	**5.868**	**4.908**	**21.499**	**6.248**	**27.367**

Plant Emissions (Storage Piles & Unpaved Roads for Crusher & Screen)

Activity	Lb/hr	TPY
Storage Piles uncontrolled	21.240	93.033
Unpaved Roads uncontrolled	10.227	44.795
TOTAL UNCONTROLLED	**31.467**	**137.828**
Less Control (70%)	22.027	96.480
TOTAL CONTROLLED	**9.440**	**41.348**

Total Controlled TSP Emissions for equipment and plant

Source	Lb/hr	TPY
Equipment	6.248	27.367
Plant	9.440	41.348
Total Controlled	**15.688**	**68.715**

HAR 11-60.1-83 (5) Identification of points of emissions

Since all diesel engines are exempt, there are no points of emissions. The only emissions consist of fugitive dust.

HAR 11-60.1-83 (6) Identification of air pollution control equipment

The crusher and the screen are equipped with water-sprays to control fugitive dust. Unpaved plant areas and stockpiles are controlled by water truck or by existing water supply. The accepted rate of reduction for fugitive dust controlled by water sprays, is 70%.

HAR 11-60.1-83 (7) Applicable Requirements

Hawaii Administrative Rules (HAR) Title 11
- Chapter 11-59, Ambient Air Quality Standards
- Chapter 11-60.1 Air Pollution Control
  - Subchapter 1, General Requirements
  - Subchapter 2, General Prohibitions
    - 11-60.1-31 Applicability
    - 11-60.1-32 Visible Emissions
    - 11-60.1-33 Fugitive Dust
    - 11-60.1-38 Sulfur Oxides from Fuel Combustion
  - Subchapter 5, Covered Sources
  - Subchapter 6, Fees for Covered Sources
  - Subchapter 8, Standards of Performance for Stationary Sources
    - 11-60.1-161 New Source Performance Standards
  - Subchapter 9, Hazardous Air Pollutant Sources

40 Code of Federal Regulations (CFR) Part 60 – Standards of Performance for New Stationary Sources
- Subpart A – General Provisions
- Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants

Test Methods:
EPA Method 9 of 40 CFR Part 60, Appendix A-4, following procedures in 40 CFR 60.11. Tests to be done by certified reader.

HAR 11-60.1-83 (8) Operational limitations and work practices

No operating limitations are requested for any of the equipment covered under this permit application.

All diesel engines will be fired only with Ultra Low Sulfur Diesel (ULSD) fuel with a sulfur content of not more than 0.0015% by weight.

The permittee may replace any diesel engine with an engine of the same size or smaller if warranted by breakdown of the existing engine.

The plant operates irregularly, with operation depending on job situation and demand. When operating, the plant typically operates 8 hours per day, 5 days per week.

The crusher and screen may run either together at the same location or separately and simultaneously at different locations.

HAR 11-60.1-83 (9) Calculations and Assumptions

Maximum emission calculations for fugitive dust from the jaw crusher and screen are based on EPA AP42, tables 11.19.2-2, 8/04, 13.2.4, 11/06, 13.2.2, 11/06, and CEIDARS table PM2.5 fractions for Mineral Products, Crushing, Screening, Blasting, Loading and Unloading; on the maximum throughput of the plant as indicated by the manufacturer (308 tph for the crusher and 441 tph for the screener); and on 8760 hours/year.
Maximum uncontrolled emissions are reduced by a 70% control factor since water sprays and (if applicable) a water truck, or grid water are used to control fugitive dust.
For emission calculations please see Appendix B. For manufacturer information regarding plant throughput, please see Appendix C.

Controlled fugitive emissions:

Controlled Crusher, Screen, & Stacker Emissions and Trigger Levels (TPY)					
Pollutant	**Emissions (No Limits)**	**BACT Significant Levels**	**AERR Thresholds**	**DOH Levels**	**Stockpile And unpaved Road Emissions**
CO	0	100	1000	250	0
NO_X	0	40	100	25	0
SO_2	0	40	100	25	0
PM (TSP)	**27.367**	25	-	25	**41.348**
PM10	**10.443**	15	100	25	**17.314**
PM2.5	**3.133**	10	100	-	**4.372**
VOC	0	40	100	25	0
HAPs	0	-	-	5	0

Note: BACT is not required since this is not a major source.

HAR 11-60.1-83 (10) Schedule for Construction

The crusher to be covered under this permit application is already built and is being shipped to Hawaii and the screener is already permitted in Hawaii. The equipment is highly mobile and can be set-up and operating within a very short time. The crusher will only be operated upon receipt of the permit.

HAR 11-60.1-83 (11) Assessment of Ambient Air Quality Impact for Existing Sources

Not applicable, this is a new source.

HAR 11-60.1-83 (12) Assessment of Ambient Air Quality Impact for New Sources

An ambient air quality impact analysis (AAQIA) is not required since the emissions are fugitive in nature, and because the Department of Health air modeling guidance generally does not require an ambient air quality impact analysis for fugitive emissions.

HAR 11-60.1-83 (13) Subchapter 7 Applicability

Not Applicable

HAR 11-60.1-83 (14) Risk Assessment

The applicant will submit a risk assessment of the air quality related impacts caused by the modified covered source if requested by the Director.

HAR 11-60.1-83 (15) Source Emission Testing

No source emission testing has been conducted, but the applicant will do so if requested by the Director.

HAR 11-60.1-83 (16) Other Available Control Technologies

To the best knowledge of the applicant, no other or better control technologies are available.

HAR 11-60.1-83 (17) Exemptions from Applicable Requirements

There are no exemptions from applicable requirements.

HAR 11-60.1-83 (18) Insignificant Activities

Assorted fuel and hydraulic oil tanks on the equipment.

HAR 11-60.1-83 (19) Compliance Plan

See section standard permit application forms, compliance plan on page 9.

HAR 11-60.1-83 (20) Compliance Certification

See section standard permit application forms, compliance certification on page 12.

HAR 11-60.1-83 (21) Other Information

There is no other information.

Application Fee

The application fee of $ 1000.00 for an initial temporary covered source permit for a non-toxic covered source is enclosed.
HAR 11-60.1 – 113 (b) (4) (A)

Check No 2713 dated 1/22/2025

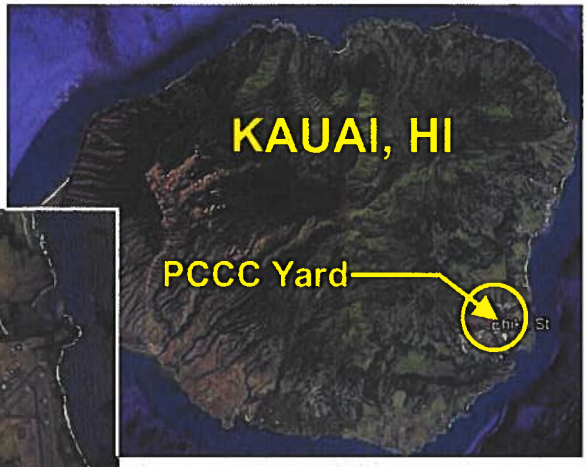
Made payable to: "CLEAN AIR SPECIAL FUND-COV"

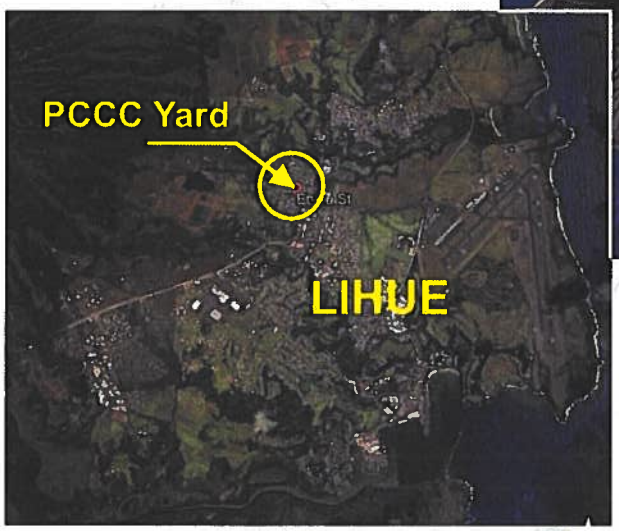
APPENDIX A

LOCATION & SITE MAPS

Pacific Concrete Cutting & Coring, Inc. (PCCC)

Initial Equipment Location:
TMK (4) 3-8-004:001
PCCC Yard, Ehiku Street,
Lihue, Kauai, HI 96766

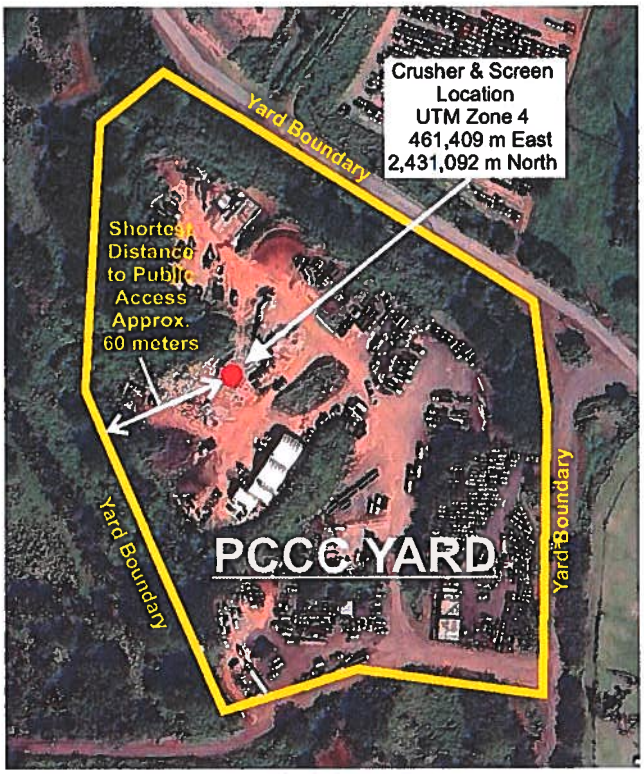




Equipment UTM Coordinates:
Zone 4
461,409 m East
2,431,092 m North

Pacific Concrete Cutting & Coring, Inc. (PCCC)

View of gated entrtance to PCCC yard.



PCCC Yard Area

APPENDIX B
Annual Emission Calculations

Annual Emission Calculations for 308 TPH Premiertrak 330 Jaw Crusher

Calculation Basis:

Maximum Processing rate : 308 TPH
Operating hours: 8760 hours/year
Transfer Points: 4
Emission Factors: AP 42 (11.19.2-2, 8/04, 13.2.4, 11/06, 13.2.2, 11/O6

Fugitive Emissions of Particulate Matter (TSP):

Activity	SCC	Lb/hr	TPY
Primary Crushing uncontrolled	3-05-020-01	0.739	3.238
Conveyor Transfer Point uncontrolled (4)	3-05-020-06	3.696	16.188
Truck unloading uncontrolled	3-05-020-32	0.031	0.135
TOTAL UNCONTROLLED		**4.466**	**19.561**
Less Control (70%)		3.126	13.693
TOTAL CONTROLLED		**1.340**	**5.868**

Fugitive Emissions of Particulate Matter (PM10):

Activity	SCC	Lb/hr	TPY
Primary Crushing uncontrolled	3-05-020-01	0.739	3.238
Conveyor Transfer Point uncontrolled (4)	3-05-020-06	1.355	5.936
Truck unloading uncontrolled	3-05-020-32	0.031	0.135
TOTAL UNCONTROLLED		**2.125**	**9.309**
Less Control (70%)		1.488	6.516
TOTAL CONTROLLED		**0.637**	**2.793**

Fugitive Emissions of Particulate Matter (PM2.5):

Emission calculations based on CEIDARS table PM2.5 fractions, Mineral Products, Crushing, Screening, Blasting, Loading and Unloading where PM2.5 equals 0.3 of PM10.

Activity	SCC	Lb/hr	TPY
Primary Crushing uncontrolled	3-05-020-01	0.222	0.971
Conveyor Transfer Point uncontrolled (4)	3-05-020-06	0.407	1.781
Truck unloading uncontrolled	3-05-020-32	0.009	0.040
TOTAL UNCONTROLLED		**0.638**	**2.792**
Less Control (70%)		0.447	1.954
TOTAL CONTROLLED		**0.191**	**0.838**

Annual Emission Calculations for 441 TPH Powerscreen Turbo Chieftain 1400 Double Deck Screen

Calculation Basis:

Maximum Processing rate : 441 TPH
Operating hours: 8760 hours/year
Transfer Points: 4
Emission Factors: AP 42 (11.19.2-2, 8/04, 13.2.4, 11/06, 13.2.2, 11/O6

Fugitive Emissions of Particulate Matter (TSP):

Activity	SCC	Lb/hr	TPY
Screening	3-05-020-02,03	11.025	48.290
Conveyor Transfer Point uncontrolled (4)	3-05-020-06	5.292	23.179
Truck unloading uncontrolled	3-05-020-32	0.044	0.193
TOTAL UNCONTROLLED		**16.361**	**71.662**
Less Control (70%)		11.453	50.163
TOTAL CONTROLLED		**4.908**	**21.499**

Fugitive Emissions of Particulate Matter (PM10):

Activity	SCC	Lb/hr	TPY
Screening	3-05-020-02,03	3.837	16.805
Conveyor Transfer Point uncontrolled (4)	3-05-020-06	1.940	8.499
Truck unloading uncontrolled	3-05-020-32	0.044	0.193
TOTAL UNCONTROLLED		**5.821**	**25.497**
Less Control (70%)		4.075	17.848
TOTAL CONTROLLED		**1.746**	**7.650**

Fugitive Emissions of Particulate Matter (PM2.5):

Emission calculations based on CEIDARS table PM2.5 fractions, Mineral Products, Crushing, Screening, Blasting, Loading and Unloading where PM2.5 equals 0.3 of PM10.

Activity	SCC	Lb/hr	TPY
Screening	3-05-020-02,03	1.151	5.041
Conveyor Transfer Point uncontrolled (4)	3-05-020-06	0.582	2.550
Truck unloading uncontrolled	3-05-020-32	0.013	0.058
TOTAL UNCONTROLLED		**1.746**	**7.649**
Less Control (70%)		1.222	5.354
TOTAL CONTROLLED		**0.524**	**2.295**

Controlled Total for Jaw Crusher and Screen

Fugitive Emissions of Particulate Matter (TSP)

Equipment	Controlled Lbs/Hr	Controlled TPY
308 TPH Powerscreen Premiertrak Jaw Crusher	1.340	5.868
441 TPH Powerscreen Chieftain 1400 Screen	4.908	21.499
Total	**6.248**	**27.367**

Fugitive Emissions of Particulate Matter (PM10)

Equipment	Controlled Lbs/Hr	Controlled TPY
308 TPH Powerscreen Premiertrak Jaw Crusher	0.637	2.793
441 TPH Powerscreen Chieftain 1400 Screen	1.746	7.650
Total	**2.383**	**10.443**

Fugitive Emissions of Particulate Matter (PM2.5)

Equipment	Controlled Lbs/Hr	Controlled TPY
308 TPH Powerscreen Premiertrak Jaw Crusher	0.191	0.838
441 TPH Powerscreen Chieftain 1400 Screen	0.524	2.295
Total	**0.715**	**3.133**

Storage Pile and Unpaved Roads Fugitive Emissions for crusher and screen with both running independently (Maximum Emissions) for (Powerscreen Premiertrak 330 Jaw Crusher & Powerscreen Chieftain 1400 Screen)

Max. Emissions are based on the following:
Maximum Hours per year 8760
Tonnage (308 tph + 441 tph = 749 tph).

Fugitive Emissions of Particulate Matter (TSP):

Activity	SCC	Lb/hr	TPY
Storage Piles uncontrolled		21.240	93.033
Unpaved Roads uncontrolled		10.227	44.795
TOTAL UNCONTROLLED		**31.467**	**137.828**
Less Control (70%)		22.027	96.480
TOTAL CONTROLLED		**9.440**	**41.348**

Fugitive Emissions of Particulate Matter (PM10):

Activity	SCC	Lb/hr	TPY
Storage Piles uncontrolled		10.048	44.002
Unpaved Roads uncontrolled		3.131	13.713
TOTAL UNCONTROLLED		**13.179**	**57.715**
Less Control (70%)		9.225	40.401
TOTAL CONTROLLED		**3.954**	**17.314**

Fugitive Emissions of Particulate Matter (PM2.5):

Activity	SCC	Lb/hr	TPY
Storage Piles uncontrolled		3.014	13.201
Unpaved Roads uncontrolled		0.313	1.371
TOTAL UNCONTROLLED		**3.327**	**14.572**
Less Control (70%)		2.329	10.200
TOTAL CONTROLLED		**0.998**	**4.372**

Total Controlled TSP Emissions for equipment and plant:

Source	Lb/hr	TPY
Equipment	6.248	27.367
Plant	9.440	41.348
Total Controlled	**15.688**	**68.715**

Calculations of Emissions for Crushed Stone Processing Operations					
Client:	PACIFIC CONCRETE CUTTING & CORING, INC.				Date:
Facility:	308 TPH PREMIERTRAK 330 JAW CRUSHER				1/19/2025
Permit No.:				JOB#	2501001

Annual Production Rate Calculations:				Annual Production (tpy)	Annual Production (cy/year)
INPUT FIELDS:		hrs/year	8760		
cy/hr	0	tons/hr	308		
		Transfer Points	4	2,698,080	0

Conversion rate "stone crushed" cy to ton = 1.35 Source: (www.enviromineinc.com/conversion_calculator.htm)

EMISSION CALCULATIONS FOR TOTAL PART. MATTER (AP42, table 11.19.2-2, 8/04)

Source	SCC	Em.Factor (lb/ton)	lbs/hour	Tons/Year
Primary Crushing	3-05-020-01	N/D	0.000	0.000
Primary Crushing contr.	3-05-020-01	N/D	0.000	0.000
Secondary Crushing	3-05-020-02	N/D	0.000	0.000
Secondary Crushing contr.	3-05-020-02	N/D	0.000	0.000
Tertiary Crushing	3-05-020-03	0.00540	1.663	7.285
Tertiary Crushing contr.	3-05-020-03	0.00120	FALSE	1.619
Fines Crushing	3-05-020-05	0.03900	12.012	52.613
Fines Crushing contr.	3-05-020-05	0.00300	0.924	4.047
Screening	3-05-020-02,03	0.02500	7.700	33.726
Screening contr.	3-05-020-02,03	0.00220	0.678	2.968
Fines Screening	3-05-020-21	0.30000	92.400	404.712
Fines Screening contr.	3-05-020-21	0.00360	1.109	4.857
Conveyor Transfer Point	3-05-020-06	0.00300	0.924	4.047
Conv. Transfer Point contr.	3-05-020-06	0.00014	0.043	0.189
Wet Drilling - Unfrag.Stone	3-05-020-10	N/D	0.000	0.000
Truck unload - Fragm.Stone	3-05-020-31	N/D	0.000	0.000
Truck unload - conv.crushed	3-05-020-32	N/D	0.000	0.000

EMISSIONS IN **BOLD ONLY** ARE USED FOR EMISSION CALCULATIONS FOR THIS PLANT!

Uncontrolled Emission Calculations for multiple Transfer Points:					
No of Points:	4	lbs/hr per point	0.924	Total:	3.696
No of Points:	4	tons/year per poin	4.047	Total:	16.18848

EMISSION CALCULATIONS FOR STORAGE PILES ONLY:

Wind Erosion from Storage Piles (AP42, 13.2.4, 11/06):

Formula: E = k(0.0032) x [((U/5)**1.3)) / ((M/2)**1.4)]

where: E=emission factor, k=particle size multiplier(dimensionles
U=mean wind speed (mph), M=material moisture content

k (TSP)	k (PM-10)	U	M
0.74	0.35	10.9	0.7
AP42,13.2.4	AP42,13.2.4	AP42,7.1-9	AP42,13.2.4-1

Average Annual Windspeeds for Hawaii (AP42,7.1-9)

Hilo	7.2 mph
Honolulu	11.4 mph
Kahului	12.8 mph
Lihue	12.2 mph
State Average	10.9 mbh

Emission Factor lb/ton:		Ann.Prod.		Total TSP (lb/hr)	Total TSP (tpy)
PM-10	0.013	(tpy)			
TSP	0.028	2,698,080		8.734	38.256
TOTAL TSP CONTROLLED (-70%)FOR STORAGE PILES				2.620	11.477
PM-10 UNCONTROLLED:		18.094	tons/year		

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EMISSION CALCULATIONS FOR TOTAL PM-10 (AP42, table 11.19.2-2, 8/04)

Source	SCC	Em.Factor (lb/ton)	lbs/hour	Tons/Year
*Primary Crushing	3-05-020-01	0.00240	0.739	3.238
*Primary Crushing contr.	3-05-020-01	0.00054	0.166	0.728
*Secondary Crushing	3-05-020-02	0.00240	0.739	3.238
*Secondary Crushing contr.	3-05-020-02	0.00054	0.166	0.728
Tertiary Crushing	3-05-020-03	0.00240	0.739	3.238
Tertiary Crushing contr.	3-05-020-03	0.00054	0.166	0.728
Fines Crushing	3-05-020-05	0.01500	4.620	20.236
Fines Crushing contr.	3-05-020-05	0.00120	0.370	1.619
Screening	3-05-020-02,03	0.00870	2.680	11.737
Screening contr.	3-05-020-02,03	0.00074	0.228	0.998
Fines Screening	3-05-020-21	0.07200	22.176	97.131
Fines Screening contr.	3-05-020-21	0.00220	0.678	2.968
Conveyor Transfer Point	3-05-020-06	0.00110	0.339	1.484
Conv. Transfer Point contr.	3-05-020-06	4.60E-05	0.014	0.062
Wet Drilling - Unfrag.Stone	3-05-020-10	8.00E-05	0.025	0.108
Truck unload - Fragm.Stone	3-05-020-31	1.60E-05	0.005	0.022
Truck unload - conv.crushed	3-05-020-32	0.00010	0.031	0.135

EMISSIONS IN **BOLD ONLY** ARE USED FOR EMISSION CALCULATIONS FOR THIS PLANT!
*Tertiary Crushing Emission Factors are used (AP42, table 11.19.2-2, Footnote n)

Uncontrolled Emission Calculations for multiple Transfer Points:					
No of Points:	4	lbs/hr per point	0.339	Total:	**1.355**
No of Points:	4	tons/year per poin	1.484	Total:	**5.936**

EMISSION CALCULATIONS FOR STORAGE PILES ONLY:

Wind Erosion from Storage Piles (AP42, 13.2.4):

Formula: E = k(0.0032) x [((U/5)**1.3)) / ((M/2)**1.4)]
where: E=emission factor, k=particle size multiplier(dimensionles
U=mean wind speed (mph), M=material moisture content

k (TSP)	k (PM-10)	U	M
0.74	**0.35**	**10.9**	**0.7**
AP42,13.2.4	AP42,13.2.4	AP42,7.1-9	AP42,13.2.4-1

Average Annual Windspeeds for Hawaii (AP42,7.1-9)

Hilo	7.2 mph
Honolulu	11.4 mph
Kahului	12.8 mph
Lihue	12.2 mph
State Average	10.9 mbh

Emission Factor lb/ton:		Ann.Prod.		Total PM-10 (lb/hr)	Total PM-10 (tpy)
PM-10	0.013	(tpy)			
TSP	0.028	2,698,080		4.131	18.094
PM-10 CONTROLLED (-70%)FOR STORAGE PILES				**1.239**	**5.428**

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EMISSION CALCULATIONS FOR PM2.5 (AP42, table 11.19.2-2, 8/04)

Emission calculations based on CEIDARS table PM2.5 fractions, Mineral Products, Crushing, Screening, Blasting, Loading and Unloading where PM2.5 equals 0.3 of PM10.

Source	SCC	Em.Factor (lb/ton)	lbs/hour	Tons/Year
Primary Crushing*	3-05-020-01	0.00072	0.222	0.971
Primary Crushing contr.	3-05-020-01	0.00016	0.050	0.219
	3-05-020-02	0.00072	0.222	0.971
Secondary Crushing contr.	3-05-020-02	0.00016	0.050	0.219
Tertiary Crushing*	3-05-020-03	0.00072	0.222	0.971
Tertiary Crushing contr.	3-05-020-03	0.00016	0.050	0.219
Fines Crushing*	3-05-020-05	0.00450	1.386	6.071
Fines Crushing contr.	3-05-020-05	0.00036	0.111	0.486
Screening*	3-05-020-02,03	0.00261	0.804	3.521
Screening contr.	3-05-020-02,03	0.00022	0.068	0.299
Fines Screening*	3-05-020-21	0.02160	6.653	29.139
Fines Screening contr.*	3-05-020-21	0.00066	0.203	0.890
Conveyor Transfer Point*	3-05-020-06	0.00033	0.102	0.445
Conv. Transfer Point contr.	3-05-020-06	1.38E-05	0.004	0.019
Wet Drilling - Unfrag.Stone*	3-05-020-10	2.40E-05	0.007	0.032
Truck unload - Fragm.Stone*	3-05-020-31	4.80E-06	0.001	0.006
Truck unload - conv.crushed*	3-05-020-32	0.00003	0.009	0.040

EMISSIONS IN **BOLD ONLY** ARE USED FOR EMISSION CALCULATIONS FOR THIS PLANT!

Storage Piles

	Emission PM10	Emission PM2.5	
lbs/hour	4.131	1.239	(PM10 emissions x 0.3)
tons/year	18.094	5.428	(PM10 emissions x 0.3)

Un-Controlled Emission Calculations for multiple Transfer Points:

No of Points:	4	lbs/hr per point	1.02E-01	Total:	**0.407**
No of Points:	4	tons/year per point	4.45E-01	Total:	**1.781**

Calculations of Emissions for Crushed Stone Processing Operations					
Client:	PACIFIC CONCRETE CUTTING & CORING, INC.				Date:
Facility:	441 TPH POWERSCRDEN CHIEFTAIN 1400 SCREEN				1/19/2025
Permit No.:				JOB#	2501001

Annual Production Rate Calculations:				Annual Production (tpy)	Annual Production (cy/year)
INPUT FIELDS:		hrs/year	8760		
cy/hr	0	tons/hr	441		
		Transfer Points	4	3,863,160	0

Conversion rate "stone crushed" cy to ton = 1.35 Source: (www.enviromineinc.com/conversion_calculator.htm)

EMISSION CALCULATIONS FOR TOTAL PART. MATTER (AP42, table 11.19.2-2, 8/04)

Source	SCC	Em.Factor (lb/ton)	lbs/hour	Tons/Year
Primary Crushing	3-05-020-01	N/D	0.000	0.000
Primary Crushing contr.	3-05-020-01	N/D	0.000	0.000
Secondary Crushing	3-05-020-02	N/D	0.000	0.000
Secondary Crushing contr.	3-05-020-02	N/D	0.000	0.000
Tertiary Crushing	3-05-020-03	0.00540	2.381	10.431
Tertiary Crushing contr.	3-05-020-03	0.00120	FALSE	2.318
Fines Crushing	3-05-020-05	0.03900	17.199	75.332
Fines Crushing contr.	3-05-020-05	0.00300	1.323	5.795
Screening	3-05-020-02,03	0.02500	11.025	48.290
Screening contr.	3-05-020-02,03	0.00220	0.970	4.249
Fines Screening	3-05-020-21	0.30000	132.300	579.474
Fines Screening contr.	3-05-020-21	0.00360	1.588	6.954
Conveyor Transfer Point	3-05-020-06	0.00300	1.323	5.795
Conv. Transfer Point contr.	3-05-020-06	0.00014	0.062	0.270
Wet Drilling - Unfrag.Stone	3-05-020-10	N/D	0.000	0.000
Truck unload - Fragm.Stone	3-05-020-31	N/D	0.000	0.000
Truck unload - conv.crushed	3-05-020-32	N/D	0.000	0.000

EMISSIONS IN **BOLD ONLY** ARE USED FOR EMISSION CALCULATIONS FOR THIS PLANT!

Uncontrolled Emission Calculations for multiple Transfer Points:					
No of Points:	4	lbs/hr per point	1.323	Total:	**5.292**
No of Points:	4	tons/year per poin	5.795	Total:	**23.17896**

EMISSION CALCULATIONS FOR STORAGE PILES ONLY:

Wind Erosion from Storage Piles (AP42, 13.2.4, 11/06):

Formula: E = k(0.0032) x [((U/5)**1.3)) / ((M/2)**1.4)]

where: E=emission factor, k=particle size multiplier(dimensionles
U=mean wind speed (mph), M=material moisture content

Average Annual Windspeeds for Hawaii (AP42,7.1-9)

Hilo	7.2 mph
Honolulu	11.4 mph
Kahului	12.8 mph
Lihue	12.2 mph
State Average	10.9 mbh

k (TSP)	k (PM-10)	U	M
0.74	**0.35**	**10.9**	**0.7**
AP42,13.2.4	AP42,13.2.4	AP42,7.1-9	AP42,13.2.4-1

Emission Factor lb/ton:		Ann.Prod.		Total TSP (lb/hr)	Total TSP (tpy)
PM-10	0.013	(tpy)			
TSP	0.028	3,863,160		**12.506**	**54.776**
TOTAL TSP CONTROLLED (-70%)FOR STORAGE PILES				3.752	16.433
PM-10 UNCONTROLLED:		25.908	tons/year		

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EMISSION CALCULATIONS FOR TOTAL PM-10 (AP42, table 11.19.2-2, 8/04)

Source	SCC	Em.Factor (lb/ton)	lbs/hour	Tons/Year
*Primary Crushing	3-05-020-01	0.00240	1.058	4.636
*Primary Crushing contr.	3-05-020-01	0.00054	0.238	1.043
*Secondary Crushing	3-05-020-02	0.00240	1.058	4.636
*Secondary Crushing contr.	3-05-020-02	0.00054	0.238	1.043
Tertiary Crushing	3-05-020-03	0.00240	1.058	4.636
Tertiary Crushing contr.	3-05-020-03	0.00054	0.238	1.043
Fines Crushing	3-05-020-05	0.01500	6.615	28.974
Fines Crushing contr.	3-05-020-05	0.00120	0.529	2.318
Screening	3-05-020-02,03	0.00870	3.837	16.805
Screening contr.	3-05-020-02,03	0.00074	0.326	1.429
Fines Screening	3-05-020-21	0.07200	31.752	139.074
Fines Screening contr.	3-05-020-21	0.00220	0.970	4.249
Conveyor Transfer Point	3-05-020-06	0.00110	0.485	2.125
Conv. Transfer Point contr.	3-05-020-06	4.60E-05	0.020	0.089
Wet Drilling - Unfrag.Stone	3-05-020-10	8.00E-05	0.035	0.155
Truck unload - Fragm.Stone	3-05-020-31	1.60E-05	0.007	0.031
Truck unload - conv.crushed	3-05-020-32	0.00010	0.044	0.193

EMISSIONS IN **BOLD ONLY** ARE USED FOR EMISSION CALCULATIONS FOR THIS PLANT!
*Tertiary Crushing Emission Factors are used (AP42, table 11.19.2-2, Footnote n)

Uncontrolled Emission Calculations for multiple Transfer Points:					
No of Points:	4	lbs/hr per point	0.485	Total:	1.940
No of Points:	4	tons/year per poin	2.125	Total:	8.499

EMISSION CALCULATIONS FOR STORAGE PILES ONLY:

Wind Erosion from Storage Piles (AP42, 13.2.4):

Formula: E = k(0.0032) x [((U/5)**1.3)) / ((M/2)**1.4)]
where: E=emission factor, k=particle size multiplier(dimensionles
U=mean wind speed (mph), M=material moisture content

k (TSP)	k (PM-10)	U	M
0.74	0.35	10.9	0.7
AP42,13.2.4	AP42,13.2.4	AP42,7.1-9	AP42,13.2.4-1

Average Annual Windspeeds for Hawaii (AP42,7.1-9)

Hilo	7.2 mph
Honolulu	11.4 mph
Kahului	12.8 mph
Lihue	12.2 mph
State Average	10.9 mbh

Emission Factor lb/ton:		Ann.Prod.		Total PM-10 (lb/hr)	Total PM-10 (tpy)
PM-10	0.013	(tpy)			
TSP	0.028	3,863,160		5.915	25.908
PM-10 CONTROLLED (-70%) FOR STORAGE PILES				1.775	7.772

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EMISSION CALCULATIONS FOR PM2.5 (AP42, table 11.19.2-2, 8/04)

Emission calculations based on CEIDARS table PM2.5 fractions, Mineral Products, Crushing, Screening, Blasting, Loading and Unloading where PM2.5 equals 0.3 of PM10.

Source	SCC	Em.Factor (lb/ton)	lbs/hour	Tons/Year
Primary Crushing*	3-05-020-01	0.00072	0.318	1.391
Primary Crushing contr.	3-05-020-01	0.00016	0.071	0.313
	3-05-020-02	0.00072	0.318	1.391
Secondary Crushing contr.	3-05-020-02	0.00016	0.071	0.313
Tertiary Crushing*	3-05-020-03	0.00072	0.318	1.391
Tertiary Crushing contr.	3-05-020-03	0.00016	0.071	0.313
Fines Crushing*	3-05-020-05	0.00450	1.985	8.692
Fines Crushing contr.	3-05-020-05	0.00036	0.159	0.695
Screening*	3-05-020-02,03	0.00261	1.151	5.041
Screening contr.	3-05-020-02,03	0.00022	0.098	0.429
Fines Screening*	3-05-020-21	0.02160	9.526	41.722
Fines Screening contr.*	3-05-020-21	0.00066	0.291	1.275
Conveyor Transfer Point*	3-05-020-06	0.00033	0.146	0.637
Conv. Transfer Point contr.	3-05-020-06	1.38E-05	0.006	0.027
Wet Drilling - Unfrag.Stone*	3-05-020-10	2.40E-05	0.011	0.046
Truck unload - Fragm.Stone*	3-05-020-31	4.80E-06	0.002	0.009
Truck unload - conv.crushed*	3-05-020-32	0.00003	0.013	0.058

EMISSIONS IN **BOLD ONLY** ARE USED FOR EMISSION CALCULATIONS FOR THIS PLANT!

Storage Piles

	Emission PM10	Emission PM2.5	
lbs/hour	5.915	1.775	(PM10 emissions x 0.3)
tons/year	25.908	7.772	(PM10 emissions x 0.3)

Un-Controlled Emission Calculations for multiple Transfer Points:

No of Points:	4	lbs/hr per point	1.46E-01	Total:	**0.582**
No of Points:	4	tons/year per point	6.37E-01	Total:	**2.550**

Calculations of PM30 (TSP) Emissions for Unpaved Roads				
Client:	**PACIFIC CONCRETE CUTTING & CORING, INC.**			
Facility:	**PREMIERTRAK 330 CRUSHER AND CHIEFTAIN 1400 SCREEN**			
Date:	1/21/2025	PERMIT NO.:	JOB #	1501001

Equation 1a (Industrial Site) AP-42, 13.2.2 Unpaved Roads, 11/06

$E = k\,(s/12)^a (W/3)^b$

where:

E = size-specific emission factor (lb/VMT)

k,a,b,c = constant (lb/VMT)

s = surface material silt content (%)

W = mean vehicle weight (tons)

p = number of days with at least 0.01 inches of precipitation per year

VMT = vehicle mile travelled

Equipment	TPH
Crusher	308
Screen	441
Total	**749**

Silt content for stone quarrying & processing plant roads (AP-42,table 13.2.2-1):

Plant Road:	10%	Haul Road:	8.30%

Table 13.2.2-2. Constants for industrial roads (equation 1a):

Constant	PM-2.5	PM-10	PM-30		
k (lb/VMT)	0.15	1.5	4.9		
a	0.9	0.9	0.7		
b	0.45	0.45	0.45		
c	n/a	n/a	n/a		
d	n/a	n/a	n/a		

Ranges of source conditions for equation (AP-42, 13.2.2.-3):

Road silt content: 1.2 - 35%

Mean vehicle weight: 1.5 - 290 tons

Mean vehicle speed: 5-55 mph

Mean number of wheels: 4-7

Surface moisture content: 0.03-20%

Mean vehicle weight determination:
Average weight empty: 16 t
Average weight full: 37 t
Average vehicle weight: 26.5 t

Input:

k (particle size multiplier) PM30	**4.900**		
s (silt content of road) (%)	**3.900**	*AP42,13.2.2, Dec.2003	
W (mean vehicle weight) (tons)	**26.500**		
M (surface material moisture content) (%)	**0.2**		**Result:**
S (mean vehicle speed) (mph)	**10**		**(lb/VMT)**
p (# of days with 0.01" of rain/year)*	**189**	**PM-30**	**2.867**

Total vehicle miles travelled per year:

(Max TPH Throughput x Hours/Year / Truck Payload x Distance Travelled)

TPH	Hours/year	Truck Load (T	Distance (M)		VMT/year
749	8760	21	0.1		**31244.0**

Uncontrolled PM30 in tons per year for unpaved roads:	**44.795**
Controlled PM30 (tpy) for unpaved roads (-70%):	**13.438**
Uncontrolled PM30 in lbs/hr	**10.227**
Controlled PM30 in lbs/hr	**3.068**

*** Lihue 1020, Station 515575, 1949 - 2000**

Calculations of PM10 Emissions for Unpaved Roads				
Client:	**PACIFIC CONCRETE CUTTING & CORING, INC.**			
Facility:	**PREMIERTRAK 330 CRUSHER AND CHIEFTAIN 1400 SCREEN**			
Date:	1/21/2025	PERMIT NO.:	JOB #	2501001

Equation 1a (Industrial Site) AP-42, 13.2.2 Unpaved Roads, 11/06

$E = k\,(s/12)^a (W/3)^b$

where:

E = size-specific emission factor (lb/VMT)

k,a,b,c = constant (lb/VMT)

s = surface material silt content (%)

W = mean vehicle weight (tons)

p = number of days with at least 0.01 inches of precipitation per year

VMT = vehicle mile travelled

Equipment	TPH
Crusher	308
Screen	441
Total	**749**

Silt content for stone quarrying & processing plant roads (AP-42,table 13.2.2-1):

Plant Road:	10%	Haul Road:	8.30%

Table 13.2.2-2. Constants for industrial roads (equation 1a):

Constant	PM-2.5	PM-10	PM-30		
k (lb/VMT)	0.15	1.5	4.9		
a	0.9	0.9	0.7		
b	0.45	0.45	0.45		
c	n/a	n/a	n/a		
d	n/a	n/a	n/a		

Ranges of source conditions for equation (AP-42, 13.2.2.-3):

Road silt content: 1.2 - 35%

Mean vehicle weight: 1.5 - 290 tons

Mean vehicle speed: 5-55 mph

Mean number of wheels: 4-7

Surface moisture content: 0.03-20%

Mean vehicle weight determination:

Average weight empty: 16 t

Average weight full: 37 t

Average vehicle weight: 26.5 t

Input:			
k (particle size multiplier) PM-10	**1.500**		
s (silt content of road) (%)	**3.900**	*AP42,13.2.2, Dec.2003	
W (mean vehicle weight) (tons)	**26.500**		
M (surface material moisture content) (%)	**0.2**		**Result:**
S (mean vehicle speed) (mph)	**10**		**(lb/VMT)**
p (# of days with 0.01" of rain/year)*	**189**	**PM-10**	**0.878**

Total vehicle miles travelled per year:

(Max TPH Throughput x Hours/Year / Truck Payload x Distance Travelled)

TPH	Hours/year	Truck Load (T	Distance (M)		**VMT/year**
749	8760	21	0.1		**31244.0**

Uncontrolled PM10 in tons per year for unpaved roads:	**13.713**
Controlled PM10 (tpy) for unpaved roads (-70%):	**4.114**
Uncontrolled PM10 in lbs/hr	**3.131**
Controlled PM10 in lbs/hr	**0.939**

*** Lihue 1020, Station 515575, 1949 - 2000**

Calculations of PM2.5 Emissions for Unpaved Roads				
Client:	PACIFIC CONCRETE CUTTING & CORING, INC.			
Facility:	PREMIERTRAK 330 CRUSHER AND CHIEFTAIN 1400 SCREEN			
Date:	1/21/2025	PERMIT NO.:	JOB #	2501001

Equation 1a (Industrial Site) AP-42, 13.2.2 Unpaved Roads, 11/06

E = k (s/12)^{a}(W/3)^{b}

where:

E = size-specific emission factor (lb/VMT)

k,a,b,c = constant (lb/VMT)

s = surface material silt content (%)

W = mean vehicle weight (tons)

p = number of days with at least 0.01 inches of precipitation per year

VMT = vehicle mile travelled

Equipment	TPH
Crusher	308
Screen	441
Total	**749**

Silt content for stone quarrying & processing plant roads (AP-42,table 13.2.2-1):

Plant Road:	10%	Haul Road:	8.30%

Table 13.2.2-2. Constants for industrial roads (equation 1a):

Constant	PM-2.5	PM-10	PM-30
k (lb/VMT)	0.15	1.5	4.9
a	0.9	0.9	0.7
b	0.45	0.45	0.45
c	n/a	n/a	n/a
d	n/a	n/a	n/a

Ranges of source conditions for equation (AP-42, 13.2.2.-3):

Road silt content: 1.2 - 35%

Mean vehicle weight: 1.5 - 290 tons

Mean vehicle speed: 5-55 mph

Mean number of wheels: 4-7

Surface moisture content: 0.03-20%

Mean vehicle weight determination:
Average weight empty: 16 t
Average weight full: 37 t
Average vehicle weight: 26.5 t

Input:

k (particle size multiplier) PM2.5	**0.150**		
s (silt content of road) (%)	**3.900**	*AP42,13.2.2, Dec.2003	
W (mean vehicle weight) (tons)	**26.500**		
M (surface material moisture content) (%)	**0.2**		**Result:**
S (mean vehicle speed) (mph)	**10**		**(lb/VMT)**
p (# of days with 0.01" of rain/year)*	**189**	**PM2.5**	**0.088**

Total vehicle miles travelled per year:

(Max TPH Throughput x Hours/Year / Truck Payload x Distance Travelled)

TPH	Hours/year	Truck Load (T	Distance (M)		VMT/year
749	8760	21	0.1		**31244.0**

Uncontrolled PM30 in tons per year for unpaved roads:	**1.371**
Controlled PM30 (tpy) for unpaved roads (-70%):	**0.411**
Uncontrolled PM30 in lbs/hr	**0.313**
Controlled PM30 in lbs/hr	**0.094**

*** Lihue 1020, Station 515575, 1949 - 2000**

Calculations of Emissions for Storage Piles					
Client:	PACIFIC CONCRETE CUTTING & CORING, INC.				Date:
Facility:	308 TPH PREMIERTRAK 330 AND 441 TPH CHIEFTAIN 1400				1/21/2025
Permit No.:				JOB#	2501001
Annual Production Rate Calculations:				Annual Production (tpy)	Annual Production (cy/year)
INPUT FIELDS:		hrs/year	8760		
cy/hr	0	tons/hr	749		
1 CY = 1.35 TON		Transfer F	4	6,561,240	0

EMISSION CALCULATIONS FOR STORAGE PILES ONLY:					
Wind Erosion from Storage Piles (AP42, 13.2.4, 11/06				Average Annual Windspeeds	
Formula: E = k(0.0032) x [((U/5)**1.3)) / ((M/2)**1.4)]				for Hawaii (AP42,7.1-9)	
where: E=emission factor, k=particle size multiplier(dimer				Hilo	7.2 mph
U=mean wind speed (mph), M=material moisture				Honolulu	11.4 mph
				Kahului	12.8 mph
k (TSP)	k (PM-10)	U	M	Lihue	12.2 mph
0.74	0.35	10.9	0.7	State Average	10.9 mbh
AP42,13.2.4	AP42,13.2.4	AP42,7.1-9	AP42,13.2.4-1		
Emission Factor lb/t		Ann.Prod.		TSP (lb/hr)	TSP (tpy)
PM-10	0.013	(tpy)			
TSP	0.028	6,561,240		21.240	93.033
TOTAL TSP CONTROLLED (-70%)FOR STORAGE PI				6.372	27.910
				PM10 (lb/hr)	PM10 (tpy)
			Uncontrolled	10.046	44.002
PM2.5 Emissions = PM10 emissions x 0.3				PM2.5 (lb/hr)	PM2.5 (tpy)
				3.014	13.201

LIHUE 1020, HAWAII

Period of Record General Climate Summary - Precipitation

Station:(515575) LIHUE 1020
From Year=1949 To Year=2000

	Precipitation											Total Snowfall		
	Mean	High	Year	Low	Year	1 Day Max.		>= 0.01 in.	>= 0.10 in.	>= 0.50 in.	>= 1.00 in.	Mean	High	Year
	in.	in.	-	in.	-	in.	dd/yyyy or yyyymmdd	# Days	# Days	# Days	# Days	in.	in.	-
January	6.70	22.22	1956	1.07	1995	11.43	25/1956	14	8	3	2	0.0	0.0	1950
February	3.93	10.51	1979	0.00	1983	4.10	24/1989	13	6	2	1	0.0	0.0	1950
March	4.70	14.98	1951	0.47	1993	8.16	01/1954	15	8	2	1	0.0	0.0	1950
April	4.48	15.19	1963	1.25	1966	3.00	14/1963	15	9	2	1	0.0	0.0	1950
May	3.39	11.56	1965	0.62	1968	5.46	05/1965	16	7	1	1	0.0	0.0	1950
June	2.25	6.15	1978	0.69	1973	2.60	01/1989	16	6	1	0	0.0	0.0	1950
July	2.99	10.14	1954	0.96	1979	4.36	30/1954	18	9	1	0	0.0	0.0	1950
August	2.76	9.35	1959	1.05	1969	5.31	07/1959	17	8	1	0	0.0	0.0	1950
September	2.87	8.13	1980	0.86	1975	3.97	17/1980	15	7	1	0	0.0	0.0	1950
October	5.09	12.81	1968	1.37	1963	7.80	11/1966	17	9	2	1	0.0	0.0	1949
November	6.35	17.98	1955	1.02	1963	9.59	28/1954	17	9	3	2	0.0	0.0	1949
December	6.51	24.18	1968	0.67	1985	4.36	31/1951	15	8	3	2	0.0	0.0	1949

Annual	52.02	82.54	1968	29.54	1953	11.43	19560125	189	93	23	11	0.0	0.0	1950
Winter	17.14	39.38	1956	4.52	1973	11.43	19560125	42	22	8	4	0.0	0.0	1950
Spring	12.57	25.87	1962	3.49	1966	8.16	19540301	46	23	6	3	0.0	0.0	1950
Summer	8.00	15.33	1954	3.42	1975	5.31	19590807	51	23	3	1	0.0	0.0	1950
Fall	14.31	29.62	1968	4.88	1963	9.59	19541128	49	25	6	3	0.0	0.0	1950

Table updated on Oct 31, 2012
For monthly and annual means, thresholds, and sums:
Months with 5 or more missing days are not considered
Years with 1 or more missing months are not considered
Seasons are climatological not calendar seasons
Winter = Dec., Jan., and Feb. Spring = Mar., Apr., and May
Summer = Jun., Jul., and Aug. Fall = Sep., Oct., and Nov.

APPENDIX C

EQUIPMENT INFORMATION & DATA

Premiertrak 330

Jaw Crusher

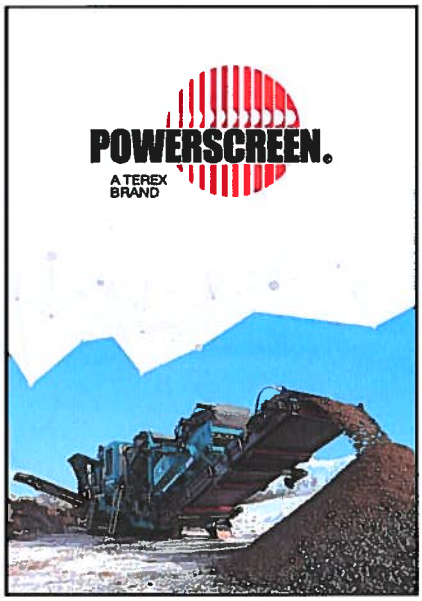
Metric	Imperial

Specifications ▾

- Output potential up to 280tph (308 US tph)
- Width: 2.6m Length: 15.7m Height: 3.4m
- Width: 4.6m Length: 15.54m Height: 3.97m
- 34,859kg with side conveyor and magnet

The Powerscreen® Premiertrak range of high-performance primary jaw crushing plants are designed for operators in quarrying, demolition, recycling, and mining applications. The range includes the Premiertrak 330 which boasts a two-piece grizzly feeder allowing better material flow towards the chamber. User benefits include track mobility for a quick set-up time, and variable crusher speed that allows the operator to fine tune the machine and maximize output.

A hydrostatic drive system offers versatility and allows the crusher to be operated in reverse, of particular benefit in recycling applications.



Condensed-Brochure-EN-(WEB)

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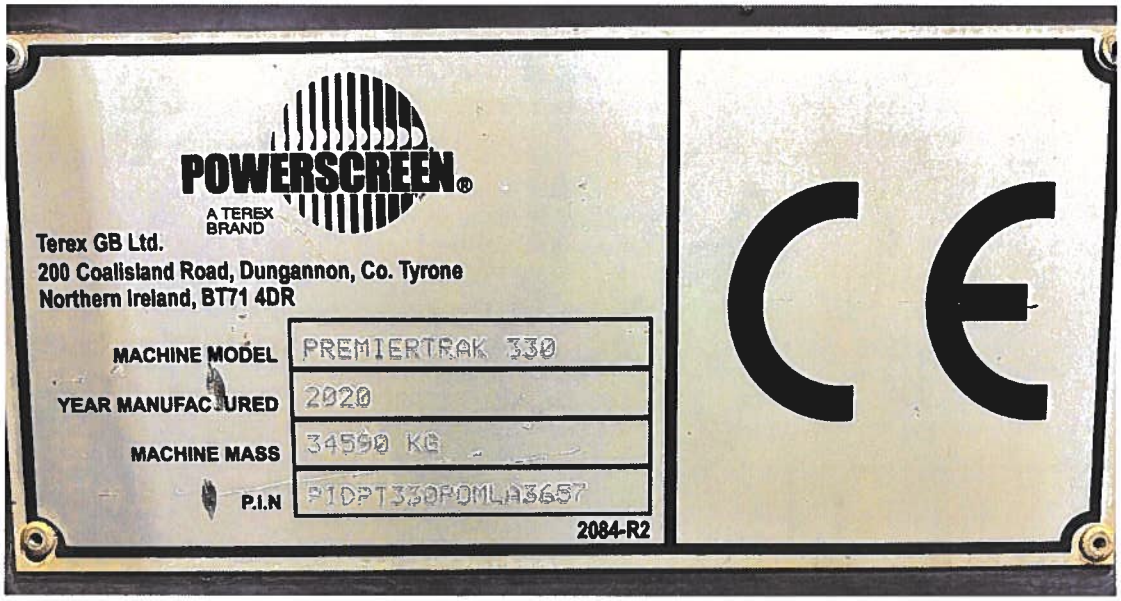
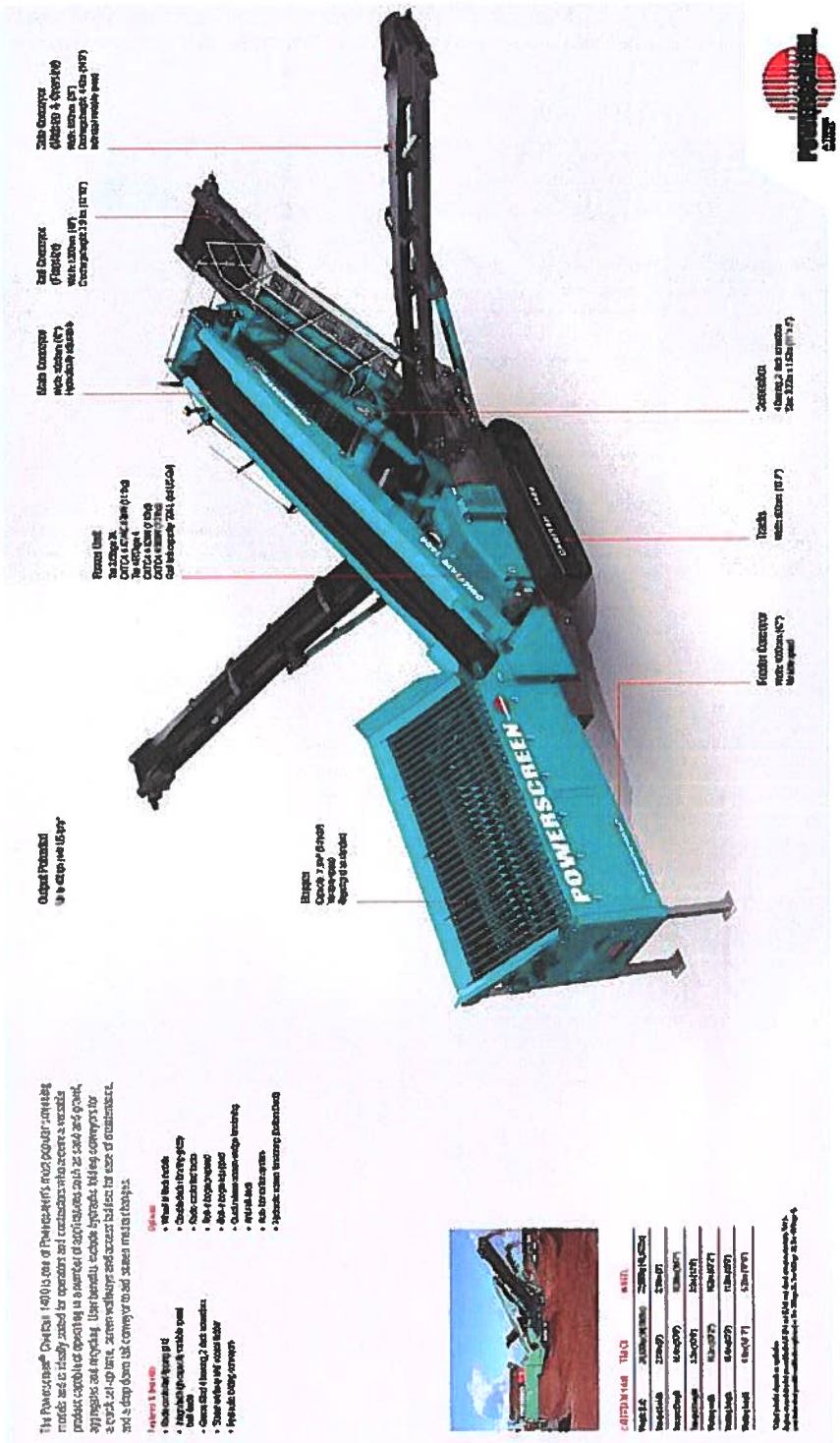

POWERSCREEN®
A TEREX BRAND
Terex GB Ltd.
200 Coalisland Road, Dungannon, Co. Tyrone
Northern Ireland, BT71 4DR
MACHINE MODEL
PREMIERTRAK 330
YEAR MANUFACTURED
2020
MACHINE MASS
34590 KG
P.I.N
P1DPT330P0MLA3657
2084-R2
CE



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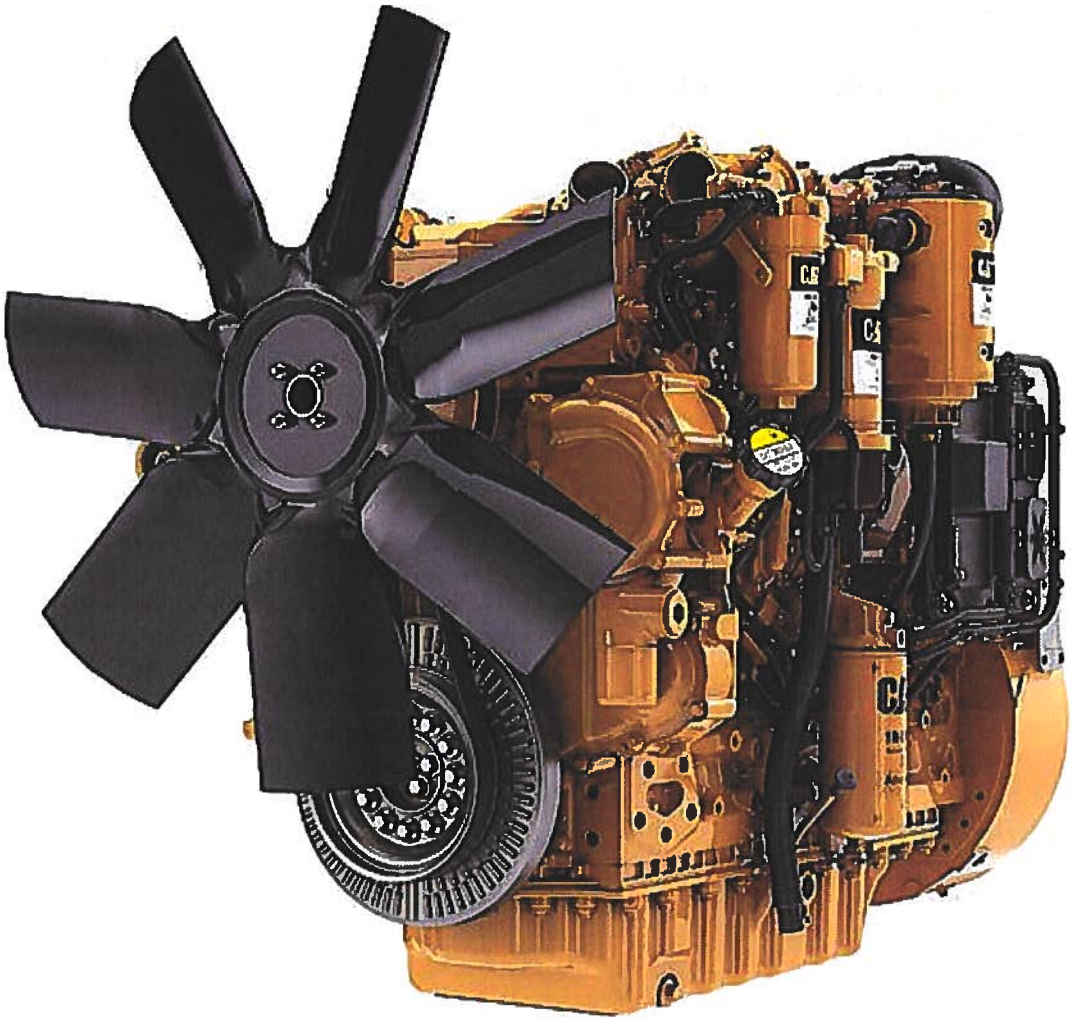

Caterpillar C7.1

Product Specifications For C7.1

Power Rating

Maximum Power	320 hp
Maximum Torque	935 lb-ft @ 1400 rpm
Rated Speed	2200 rpm
Minimum Power	172 hp

Emission Standards

Emissions	U.S. EPA & CARB Tier 4 Final, EU Stage V

General

Engine Configuration	In-Line 6
Bore	4.1 in
Stroke	5.3 in
Displacement	427.7 in^3
Compression Ratio	16.5:1
Aspiration	Turbocharged-Aftercooled (TA) or Series Turbocharged Aftercooled (TTA)
Combustion System	Direct Injection
Rotation from Flywheel End	Counterclockwise
Aftertreatment	DOC+DPF+SCR

Engine Dimensions - Approximate

Length	41.9 in
Width	31.4 in
Height	35.9 in

Weight - Net Dry - Basic Operating Engine Without Optional Attachments	1658 lb

Aftertreatment Dimensions

Length	29 in
Width	30.3 in
Height	18.1 in
Weight	236 lb

Aftertreatment Dimensions*

Diameter	13.3 in

C7.1 Standard Equipment

Air Inlet

Standard air cleaners

Control System

Full electronic control system, all connectors and wiring looms waterproof and designed to withstand harsh off-highway environments
Flexible and configurable software features and well-supported SAE J1939 CAN bus enables highly integrated machines

Cooling System

Top tank temperature 108° C (226° F) as standard to minimize cooling pack size
50:50 water glycol mix
Guidance on cooling system design available through your dealer to ensure equipment reliability

Flywheels And Flywheel Housing

Wide choice of drivetrain interfaces, including SAE No. 1, SAE No. 2, and SAE No. 3 configurations

Fuel System

Electronic high pressure common rail
Innovative filter design to ensure maximum protection of the engine

Lube System

Wide choice of sumps for different applications

General

Paint: Caterpillar yellow, with optional colors available on request

U.S. EPA Tier 4 Final, EU Stage V, Japan 2014 (Tier 4 Final) Aftertreatment/ Clean Emissions Control Equipment

Clean Emissions Module (CEM), consisting of Diesel Particulate Filter (DPF) and Diesel Oxidation Catalyst (DOC)
NOx Reduction System (NRS)
Selective Catalytic Reduction (SCR)
3" flex pipe connection with straight, 45°, and 90° options for flexibility

Outlook

[EXTERNAL] RE: Water Spray System?

From Julie Simonton <julie@pccchawaii.com>
Date Thu 4/10/2025 7:58 AM
To Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>

Ukris-

There is a water spray system on the crusher. There is not a water spray system on the screener.

The crusher engine nameplate data is shown below.


ERPILLAR®
ARRANGEMENT NUMBER
MBER
N U.K.
(ALWAYS GIVE ALL NUMBERS)
CAT®
SALES MODEL

ERPILLAR®
ARRANGEMENT NUMBER
MBER
N U.K.
(ALWAYS GIVE ALL NUMBERS)
CAT®
SALES MODEL

From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Wednesday, April 9, 2025 11:28 AM
To: Julie Simonton <julie@pccchawaii.com>
Subject: Water Spray System?

Hi Julie,

Is there any water spray system equipped on the new Powerscreen Premiertrak 330 jaw crusher and Chieftain 1400?

Can you also send me a picture of the engine nameplate (Serial No. 88108621) equipped on the Premiertrak 330 please?

Thank you, Julie!
Ukris

Ukris Wongse-ont

Engineer | Clean Air Branch

Hawai'i State Department of Health | Ka 'Oihana Olakino

2827 Waimano Home Road, #130 | Pearl City, HI 96782

Office: (808) 586-4200

Clean Air Branch (hawaii.gov)

Facility Emissions

Pollutant	Total Facility Emissions (TPY)		Emissions (Capturable & Point Source) (TPY)		Fugitive Emissions (Non-Capturable) (TPY)		New Equipment Non-Fugitive Only (Capturable) (Δ TPY)	Thresholds					
								Non-Fugitive Emissions					Total Facility Emissions
	Limited 8760 hr/yr	Unlimited 8,760 hr/yr	Limited 8760 hr/yr	Unlimited 8,760 hr/yr	Limited[2] 8760 hr/yr	Unlimited 8,760 hr/yr	8760 hr/yr	BACT significant (TPY)	AERR Type A (1-year) (T)	AERR Type B (3-year) (T)	Major source (TPY)	Synthetic Minor (yes/no)	DOH CAB In-House (TPY)
CO	0.00	0.00	0.00	0.00	n/a	n/a	0.00	100	2500	1000	100	no	250
NO_X	0.00	0.00	0.00	0.00	n/a	n/a	0.00	40	2500	100	100	no	25
SO_2	0.000	0.000	0.000	0.000	n/a	n/a	0.00	40	2500	100	100	no	25
PM	111.09	111.09	1.62	1.62	109.47	109.47	1.62	25	n/a	n/a	100	no	**25**
PM-10	30.31	30.31	0.73	0.73	29.58	29.58	0.73	15	250	100	100	no	**25**
PM-2.5	11.93	11.93	0.13	0.13	11.79	11.79	0.13	10	250	100	100	no	n/a
VOC	0.00	0.00	0.00	0.00	n/a	n/a	0.00	40	250	100	100	no	25
Aldehydes	0.00	0.00	0.00	0.00	n/a	n/a	n/a	n/a	n/a	n/a	n/a	no	n/a
Propylene	0.00	0.00	0.00	0.00	n/a	n/a	n/a	n/a	n/a	n/a	n/a	no	n/a
HAPs	0.000	0.000	0.000	0.000	n/a	n/a	0.00	(Lead) 0.6	(Lead) n/a	(Lead) 0.5	25	no	5
NH_3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	250	100	n/a	n/a	n/a

note:

1. Capturable fugitive and point source emissions from the self-propelled 308 TPH Powerscreen crusher, Model Premiertrak 330.
2. Fugitive emissions from self-propelled screener, conveyors, truck loading, truck unloading, uppaved roads, and storage piles.
3. BACT, AERR, Major source, and Synthetic Minor determinations do not include fugitive PM, PM-10 and PM-2.5.
4. Total Facility Emissions and DOH CAB In-House Emissions are based on the total facility unlimited emissions.
5. Unlimited emissions are based on 8,760 hrs/yr of operation for the self-propelled 308 TPH crusher and self-propelled 441 TPH screener.

Greenhouse Gas

GHG	GWP	GHG Mass-Based Emissions 8,760 hr/yr (Metric TPY)	CO2e Based Emissions 8,760 hr/yr (Metric TPY)	CO2e Based Emissions 8,760 hr/yr (Short TPY)
CO_2	1	#REF!	#REF!	#REF!
CH_4	25	#REF!	#REF!	#REF!
N_2O	298	#REF!	#REF!	#REF!
Total			#REF!	#REF!

Regulations

BACT HAR 11-60.1, Subchapter 5 (yes/no)	AERR 40 CFR 51 Subpart A (yes/no)	PSD 40 CFR 52 (yes/no)	NSPS 40 CFR 60 (yes/no)	NESHAPs 40 CFR 61 (yes/no)	NESHAPs 40 CFR 63 (yes/no)	CAM 40 CFR 64 (yes/no)	CAB In-House (yes/no)
No	No	No	**Yes** Subpart OOO	No	No	No	**Yes** covered source

Stone Processing

AP-42 Fifth Edition, Chapter 11, Table 19.2-2, Emission Factors for Crushed Stone Processing Operations (8/04)
Emissions (lb/hr) = Emission Factor (lb/ton) x Processing Capacity (ton/hr)

	Value	Unit	Notes
Hour Limit	8760	hour/year	2/4/25 Application
Processing Capacity - Powerscreen jaw crusher (model Premiertrak 330, serial no. PIDPT330POMLA3657)	308	ton/hour	2/4/25 Application, nameplate
Processing Capacity - Powerscreen screener (model Chieftain 1400, serial no. PID00066CDGKB1692)	441	ton/hour	2/4/25 Application, 0872-01 nameplate
Total Processing Capacity	**749**	**ton/hour**	
Conveyors (4x) (controlled) Powerscreen jaw crusher (Premiertrak 330)	4	conveyor(s)	2/4/25 Application
Conveyors (4x) (uncontrolled) Powerscreen screener (Chieftain 1400)	4	conveyor(s)	2/4/25 Application
Total Conveyor Transfer Points	**8**	**conveyor(s)**	
Fines screening percentage for Powerscreen Chieftain 1400	33.33%	-	Estimate fines for fines product conveyor
Control Efficiency (water suppression)	70%	%	AP-42 Fifth Edition, Chapter 11.19.1.2

PM	Capacity (ton/hour)	EF (lb/ton)	Emissions (lb/hr)	Emissions (TPY) 8,760 hr/yr	Emissions (TPY) 8,760 hr/yr
Jaw Crusher - Powerscreen, Premiertrak 330 (controlled EF, water suppression) (serial no. PIDPT330POMLA3657)	308	1.20E-03	0.370	1.619	1.619
Total Non-Fugitive PM			0.370	1.619	1.619
Truck Loading (water suppression)	749	1.96E-04	0.044	0.193	0.193
Truck Unloading (water supression)	749	3.14E-05	0.007	0.031	0.031
Screener - Powerscreen Chieftain 1400 (uncontrolled EF) (s/n PID00066CDGKB1692)	441	2.50E-02	2.205	9.658	9.658
Screener - Powerscreen Chieftain 1400 (uncontrolled EF, fines, water suppression) (s/n PID00066CDGKB1692)	441	3.00E-01	13.229	57.942	57.942
Conveyors (4x) (controlled EF) (Powerscreen jaw crusher, serial no. PIDPT330POMLA3657)	308	1.40E-04	0.043	0.189	0.189
Conveyors (4x) (uncontrolled EF, water suppression) (Powerscreen screener, serial no. PID00066CDGKB1692)	441	3.00E-03	0.397	1.738	1.738
Total Fugitive PM			15.92	69.751	69.751

1 of 2 Screeners
67.600
Total Conveyors
1.93

PM-10	Capacity (ton/hour)	EF (lb/ton)	Emissions (lb/hr)	Emissions (TPY) 8,760 hr/yr	Emissions (TPY) 8,760 hr/yr
Jaw Crusher - Powerscreen, Premiertrak 330 (controlled EF, water suppression) (serial no. PIDPT330POMLA3657)	308	5.40E-04	0.166	0.728	0.728
Total Non-Fugitive PM-10			0.166	0.728	0.728
Truck Loading (water suppression)	749	1.00E-04	0.022	0.098	0.098
Truck Unloading (water supression)	749	1.60E-05	0.004	0.016	0.016
Screener - Powerscreen Chieftain 1400 (uncontrolled EF) (s/n PID00066CDGKB1692)	441	8.70E-03	0.767	3.361	3.361
Screener - Powerscreen Chieftain 1400 (uncontrolled EF, fines, water suppression) (s/n PID00066CDGKB1692)	441	7.20E-02	3.175	13.906	13.906
Conveyors (4x) (controlled EF) (Powerscreen jaw crusher, serial no. PIDPT330POMLA3657)	308	4.60E-05	0.014	0.062	0.062
Conveyors (4x) (uncontrolled EF, water suppression) (Powerscreen screener, serial no. PID00066CDGKB1692)	441	1.10E-03	0.146	0.637	0.637
Total Fugitive PM-10			4.13	18.081	18.081

1 of 2 Screeners
17.267
Total Conveyors
0.70

PM-2.5	Capacity (ton/hour)	EF (lb/ton)	Emissions (lb/hr)	Emissions (TPY) 8,760 hr/yr	Emissions (TPY) 8,760 hr/yr
Jaw Crusher - Powerscreen, Premiertrak 330 (controlled EF, water suppression) (serial no. PIDPT330POMLA3657)	308	1.00E-04	0.031	0.135	0.135
Total Non-Fugitive PM-2.5			0.031	0.135	0.135
Truck Loading (water suppression)	749	2.94E-05	0.007	0.029	0.029
Truck Unloading (water supression)	749	4.71E-06	0.001	0.005	0.005
Screener - Powerscreen Chieftain 1400 (uncontrolled EF) (s/n PID00066CDGKB1692)	441	3.75E-03	0.331	1.449	1.449
Screener - Powerscreen Chieftain 1400 (uncontrolled EF, fines, water suppression) (s/n PID00066CDGKB1692)	441	4.50E-02	1.984	8.691	8.691
Conveyors (4x) (controlled EF) (Powerscreen jaw crusher, serial no. PIDPT330POMLA3657)	308	1.30E-05	0.004	0.018	0.018
Conveyors (4x) (uncontrolled EF, water suppression) (Powerscreen screener, serial no. PID00066CDGKB1692)	441	4.50E-04	0.060	0.261	0.261
Total Fugitive PM-2.5			2.386	10.452	10.452

1 of 2 Screeners
10.140
Total Conveyors
0.28

notes:

1. For crusher, screener, and conveyors, Controlled EFs from AP-42, Chapter 11, Table 11.19.2-2 (8/04) are utilized for water suppression.
2. Assume PM-10 = 51% of PM and PM-2.5 = 15% of PM when no data available (AP-42 Appendix B.2 (1/95))
3. 70% control efficiency was not applied to the crusher and conveyor since controlled EFs were used for crusher equipped with water sprays.
4. For truck loading and unloading, EFs from AP-42, Chapter 11, Table 11.19.2-2 (8/04) are utilized with 70% control efficiency for water suppression.

Vehicle Travel on Unpaved Roads

AP-42, Chapter 13, Section 13.2.2 - Unpaved Roads (11/06)
Emissions (lb/hr) = Emission Factor (lb/VMT) x Vehicle Miles Traveled (VMT/hr)

Vehicle Miles Traveled (VMT)

	Value	Unit	Note
Hour Limit	8760	hour/year	2/4/25 Application
Processing Capacity	749	ton/hour	2/4/25 Application, manufa
Vehicle Load Capacity	21	ton	
Travel Distance Roundtrip	0.25	mile	
Average VMT/hour	8.92	VMT/hour	Distance x Processing Cap
Total VMT	78110	VMT/year	VMT/hour x Annual Hour L

Mean Vehicle Weight

	Value	Unit	Note
Mean Vehicle Weight	26.5	tons	

Mean vehicle weight assumed average tare weight of 16 tons and average gross weight of 37 tons

Emission Factors

For vehicles traveling on unpaved surfaces at industrial sites:

$E = k(s/12)^a(W/3)^b$

where: E = size-specific emission factor (lb/VMT)
s = surface material silt content (%)
W = mean vehicle weight (tons)
k,a,b = empirical constants

$Eext = E[(365-P)/365]$

where: Eext = annual size-specific emission factor extrapolated for natural mitigation (lb/
P = number of days in a year with at least 0.01 in of precipitation (wrcc.dri.edu, L

	Value			Unit	Note
	PM-2.5	PM-10	PM		
k	0.15	1.5	4.9	lb/VMT	AP-42 Table 13.2.2-2
a	0.9	0.9	0.7	-	AP-42 Table 13.2.2-2
b	0.45	0.45	0.45	-	AP-42 Table 13.2.2-2
s	3.9			%	AP-42 Sec. 13.2.2 - Relate
P	198			day	Lihue WSO AP 1020.1, Sta

Pollutant	E (lb/VMT)	Eext (lb/VMT)	Control Efficiency	Emissions (lb/hr)	Emissions (TPY)	
					8,760 hr/yr	8,760 hr/yr
PM	5.95	2.72	70%	7.28	31.88	31.88
PM-10	1.45	0.67	70%	1.78	7.79	7.79
PM-2.5	0.15	0.07	70%	0.18	0.78	0.78

notes:

1. 70% control efficiency was assumed for water suppression (AP-42, Chapter 11, Section 11.19.1.2 (

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11/95))

Storage Piles

AP-42, Chaper 13, Section 13.2.4 - Aggregate Handling and Storage Piles (11/06)
Emissions (lb/hr) = Emission Factor (lb/ton) x Processing Capacity (ton/hr)

	Value	Unit	Notes
Hour Limit	8760	hour/year	Use 8,760 hr/yr for year round storage piles
Processing Capacity	749	ton/hour	2/4/25 Application, manufacturer specifications
k (PM)	0.74	-	AP-42 Sec. 13.2.4.3
k (PM-10)	0.35	-	AP-42 Sec. 13.2.4.3
k (PM-2.5)	0.053	-	AP-42 Sec. 13.2.4.3
U	13.4	mph	AP-42 Table 7.1-7 (10/2024) (Lihue, HI, average)
M	2.1	%	AP-42 Table 13.2.4-1 (various limestone products)

Emission Factors

$E = k(0.0032)(U/5)^{1.3}/(M/2)^{1.4}$, (lb/ton)

where:
E (lb/ton)
k = particle size multiplier
U = mean wind speed (mph)
M = material moisture content (%)

Pollutant	E (lb/ton)	Control Efficiency	Emissions (lb/hr)	Emissions (TPY)	
				8,760 hr/yr	8,760 hr/yr
PM	7.97E-03	70%	1.79	7.84	7.84
PM-10	3.77E-03	70%	0.85	3.71	3.71
PM-2.5	5.71E-04	70%	0.13	0.562	0.562

notes:
1. 70% control efficiency was assumed for water suppression (AP-42, Chapter 11, Section 11.19.1.2 (11/95))

JKT14530

EMISSION CONTROL INFORMATION

CAT®

Manufactured by Perkins Engines Co. Ltd.

68167 Mannheim, Germany

Engine Family: **KPKXL04.4MT1**
Displacement (L): **4.40**
C4.4

THIS ENGINE COMPLIES WITH U.S. EPA AND CALIFORNIA REGULATIONS FOR **2019** NONROAD DIESEL ENGINES AND U.S. EPA REGULATIONS FOR **2019** STATIONARY DIESEL ENGINES

ULTRA LOW SULFUR FUEL ONLY

FEL (g/kWh)	NMHC: **N/A**
NOx: **N/A**	PM: **N/A**

Emissions Control System
DDI,TAA,ECM,DOC,EGR
SCR,AMOX,EPR

Engine Type **75 < = kW < 130**

[X]	4126 / 2200 82.0 kW	[ ]	Use Service tool to verify current engine settings.
[ ]	/ kW	[ ]	
[ ]	/ kW	[ ]	
[ ]	/ kW	[ ]	
[ ]	/ kW	[ ]	

e5*97/68RA*2012/46*1002*00
Stage: **IV**

E11

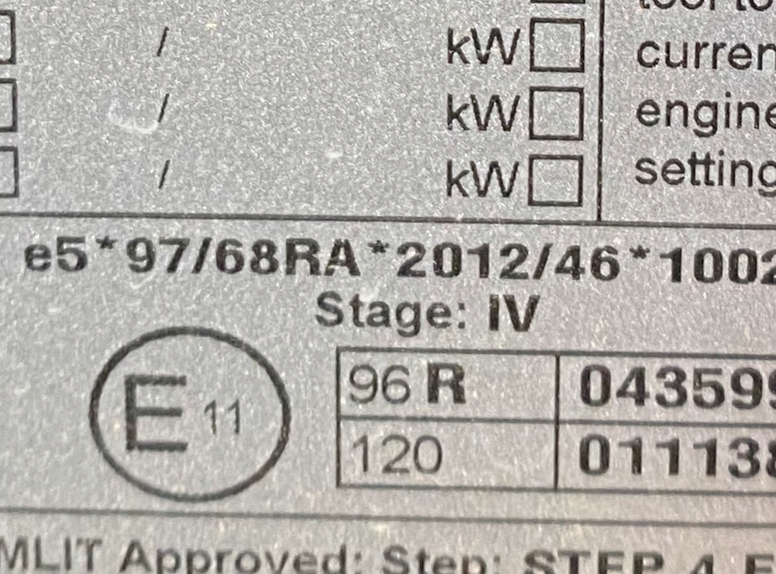
96 **R**	**043599**
120	**011138**

MLIT Approved: Step: **STEP 4 FINAL**

INFORMATION APPLICABLE TO CHINA ONLY
此发动机只用做自中国出口，符合中华人民共和国国家标准GB20891-2014 豁免规定.
This engine is solely for export from China and is therefore exempt under GB20891-2014 from P.R.China emission standards.

生产日期 Date of Manuf: **OCT 2019**

Argt No: **4559407**	Serial No: **JKT14530**	**X3443**



POWERSCREEN®

A TEREX BRAND

Terex GB Ltd.
200 Coalisland Road, Dungannon, Co. Tyrone
Northern Ireland, BT71 4DR

MACHINE MODEL	CHIEFTAIN 1400
YEAR MANUFACTURED	2019
MACHINE MASS	24,040 KGS
P.I.N	~PID00066CDGKB1692~

2084-R2

CE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