ADMINISTRATIVE RECORD

Meridian Pacific, Ltd.

Application No. 0909-01 for an Initial Permit

Self Propelled Crushing and Screening Plants

Located At: Various Temporary Sites, State of Hawaii

Temporary CSP No. 0909-01-CT

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Public Notice

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

(Docket No. 24-CA-PA-12)

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. 0909-01-CT
Application No. 0909-01 for an Initial Permit
Meridian Pacific, Ltd.
Self-Propelled Crushing and Screening Plants
Located At: Various Temporary Sites, State of Hawaii
Initial Location: 5425 Pau A Laka Street, Koloa, Island of Kauai
UTM: 4Q; 452,630 m E, 2,420,803 m N (NAD-83)

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

The issuance of Temporary CSP No. 0909-01-CT will grant conditional approval for the operation of a 220 tons per hour (TPH) Omega self-propelled jaw crusher and a 300 TPH Barford self-propelled screener. Water suppression will be used as necessary to minimize fugitive emissions from stone crushing and screening 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, Hawaii 96766

All comments on the draft permit and any request for a public hearing must be in writing, addressed to the Clean Air Branch at the above address and must be postmarked or received by **October 22, 2024.**

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 24-xxxE CAB
RETURN RECEIPT REQUESTED File No. 0909
(xxxx xxxx xxxx xxxx xxxx)

Mr. David Fonua
Director of Operations
Meridian Pacific, Ltd.
94-050 Farrington Highway
Waipahu, Hawaii 96797

Dear Mr. Fonua:

SUBJECT: Temporary Covered Source Permit (CSP) No. 0909-01-CT
Application No. 0909-01 for an Initial Permit
Meridian Pacific, Ltd.
Self-Propelled Crushing and Screening Plants
Located At: Various Temporary Sites, State of Hawaii
Initial Location: 5425 Pau A Laka Street, Koloa, Island of Kauai
UTM: Zone 4Q; 452,630 m E, 2,420,803 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 April 24, 2024, and additional information on July 2, 2024, July 8, 2024, and July 25, 2024.

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: Self-Propelled Crushing and Screening Plants
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. 0909-01-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. 0909-01-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:

    a. 220 TPH Omega self-propelled jaw crusher (track-mounted), Model J1065T, Serial No. SA9J1065TE1451043, with water spray system;
    b. 300 TPH Barford self-propelled screener (track-mounted), 2-deck, Model SR124, Serial No. KE-SR124-C-A-852;
    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 Code of Federal Regulations (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 (12) percent opacity.
    b. The permittee shall not cause to be discharged into the atmosphere from any transfer point on the belt conveyors, screening operation, or from any other affected facility, fugitive emissions which exhibit greater than seven (7) percent 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. 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 sprays 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. Location Change

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 plants for the purposes of annual emissions reporting.

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

3. Water Spray Systems

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 plants 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 plants 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 and screening plants 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: Self-Propelled Crushing and Screening Plants

   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 220 TPH Omega self-propelled crusher and 300 TPH Barford self-propelled 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 screening plant 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 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. Performance tests shall be conducted at the maximum expected operating capacity of the crushing and screening plants. 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 and screening plants 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. 0909-01-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. 0909-01-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. 0909-01-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: Self-Propelled Crushing and Screening Plants

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. 0909-01-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. 0909-01-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 All recordkeeping conditions	Equipment All Equipment listed in the permit	Compliance ☐ Continuous ☐ Intermittent
Permit term/condition All reporting conditions	Equipment All Equipment listed in the permit	Compliance ☐ Continuous ☐ Intermittent
Permit term/condition All testing conditions	Equipment All Equipment listed in the permit	Compliance ☐ Continuous ☐ Intermittent
Permit term/condition All INSIG conditions	Equipment All Equipment listed in the permit	Compliance ☐ Continuous ☐ Intermittent

COMPLIANCE CERTIFICATION FORM
TEMPORARY COVERED SOURCE PERMIT NO. 0909-01-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. 0909-01-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.

DRAFT

ANNUAL EMISSIONS REPORT FORM
SELF-PROPELLED CRUSHING AND SCREENING PLANTS
TEMPORARY COVERED SOURCE PERMIT NO. 0909-01-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 self-propelled crushing and screening plants for the calendar year:

Equipment	Serial No. (PIN)	Material Processed (tons/yr)
220 TPH Omega jaw crusher, Model J1065T	SA9J1065TE1451043	
300 TPH Barford screener, Model SR124	KE-SR124-C-A-852	

MONITORING REPORT FORM
OPACITY EXCEEDANCES
TEMPORARY COVERED SOURCE PERMIT NO. 0909-01-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:
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. 0909-01-CT
(PAGE 1 OF 3)

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 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. 0909-01-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. 0909-01-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. 0909-01-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 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 (fifteen (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. 0909-01-CT

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

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

Company Name:_____

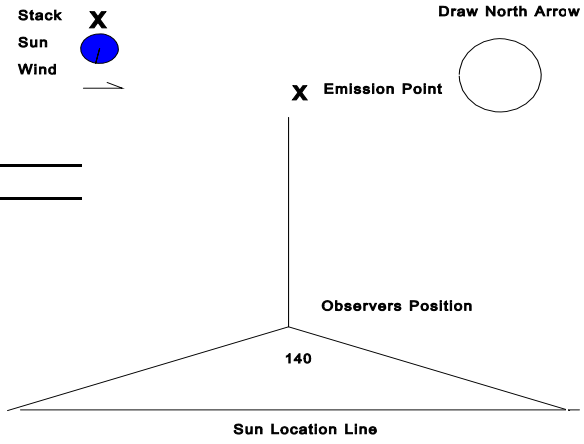
For stacks, describe equipment and fuel:_____

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. 0909-01-CT
Application No. 0909-01 for an Initial Permit

Company:	Meridian Pacific, Ltd.
Mailing Address:	94-050 Farrington Highway Waipahu, Hawaii 96797
Facility:	Self-Propelled Crushing and Screening Plants
Location:	1. 5425 Pau A Laka Street, Koloa, Island of Kauai UTM: 4Q; 452,630 m E, 2,420,803 m N (NAD-83) 2. Various Temporary Sites, State of Hawaii
SIC Code:	1442 Construction Sand and Gravel
Responsible Official:	Mr. David Fonua Director of Operations (775) 318-0011
Contact Official:	Same as above

PROPOSED PROJECT

Meridian Pacific, Ltd. (Permittee) submitted a temporary CSP application for an initial permit on April 24, 2024. The Permittee is proposing a 220 tons per hour (TPH) Omega self-propelled jaw crusher and a 300 TPH Barford self-propelled screener. The Permittee requests to operate the crusher and screener with 5,000 hours limitation in any rolling twelve (12) months period at various temporary locations. Although the Permittee requested 5,000 hrs/yr operation limit, the unlimited emissions at 8,760 hrs/yr are below major source threshold, and, therefore, no hour limitation is being imposed. The crusher and screener are considered as propelled mobile sources, each equipped with an exempt internal combustion engine propelling the unit pursuant to Hawaii Administrative Rules (HAR) 11-60.1-82(d)(4).

The Applicant will be processing rocks and/or unpainted concrete suitable for crushing and recycling. Materials will be loaded onto the jaw crusher and/or screener by front-end loader, excavator, 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 truck loading, truck unloading, jaw crusher, screener, conveyors, storage piles, and unpaved roads as needed.

EQUIPMENT DESCRIPTION

1. 220 TPH Omega self-propelled jaw crusher (track-mounted), Model J1065T, Serial No. SA9J1065TE1451043, with water spray system (manufactured in 2023) (propelled by an **exempt** 210 kW Deutz DE, Model No. TCD 7.8 L6, Serial No. 13047709, manufactured in 2023);
2. 300 TPH Barford self-propelled screener (track-mounted), 2-deck, Model SR124, Serial No. KE-SR124-C-A-852 (manufactured in 2022), (propelled by an **exempt** 88.3 kW Caterpillar DE, Model No. C4.4, Serial No. W2311186, manufactured in 2019);
3. Various conveyors; and
4. Water sprays.

AIR POLLUTION CONTROLS

The crusher is equipped with a water spray system. The screener and conveyors are not equipped with water spray systems and instead rely on manual water suppression or carryover from the crusher's water sprays to wet the materials. Additional water sprays will be used, as needed, when the screener is operating independently. Water sprays will also be used as needed to minimize fugitive dust from truck loading, truck unloading, 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 tons per year, 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 220 TPH Omega jaw crusher was manufactured in 2023, and the 300 TPH Barford screener was manufactured in 2022.

Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (CI ICE) is not applicable to the DEs for the crusher and screener because the engines will operate as self-propelled 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 for the self-propelled crusher and screener because the DEs will operate as self-propelled 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 one hundred (100) percent 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 diesel engines (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 sources. Emissions from nonroad mobile sources are either reported using the latest mobile emissions models developed by the U.S. 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 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 capturable fugitive emissions from the crusher are below significant levels. Since this is not a listed source category, non-capturable fugitive emissions are not considered in the applicability determination. Although not subject to BACT, water sprays will be required to control fugitive emissions.

EXEMPT EQUIPMENT AND INSIGNIFICANT ACTIVITY

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

1. 210 kW Deutz DE, Model No. TCD 7.8 L6, Serial No. 13047709 (manufactured in 2023), (for the propelling of the 220 TPH Omega self-propelled jaw crusher, Model J1065T, Serial No. SA9J1065TE1451043); and
2. 88.3 kW Caterpillar DE, Model No. C4.4, Serial No. W2311186, (manufactured in 2019), (for the propelling of the 300 TPH Barford self-propelled screener, Model SR124, Serial No. KE-SR124-C-A-852).

ALTERNATIVE OPERATING SCENARIOS

Not applicable for exempt DEs propelling mobile sources.

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 processing capacities of the crusher and screener are used to calculate potential project emissions and the option to operate independently. The crusher and screener have a total combined capacity of 520 TPH. The crusher is equipped with water spray system. The screener is not equipped with water spray system. Additional water sprays will be used as needed to minimize fugitive dust from screening operations, material transfer points, unpaved roads, and storage piles.

Potential emissions are based on controlled emission factors (EFs) for the crusher and associated conveyors, uncontrolled EFs for the screener and associated conveyors, and uncontrolled EFs for truck loading and 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 520 TPH of materials, 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 (70) percent control efficiency was applied for water suppression to control fugitive dust from truck loading, truck unloading, screener, screener's conveyors, storage piles, and unpaved roads 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[1]		
Pollutant	220 TPH Crusher Emissions (TPY)	300 TPH Screener Emissions (TPY)
	Unlimited 8,760 hrs/yr	Unlimited 8,760 hrs/yr
PM	1.16	45.6
PM_{10}	0.52	11.7
$PM_{2.5}$	0.10	6.8

[1]Particulate Matter (PM)

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 (13x) (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	0.134	0.021	11.18	28.76	5.4
PM_{10}	0.068	0.011	4.08	7.03	2.6
$PM_{2.5}$	0.020	0.003	1.65	0.70	0.4

HAPs Assessment

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

Project Emissions Summary

Project Emissions Summary[1,2,3,4,5]			
Pollutant	Total Facility Emissions (TPY)	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	92.3	1.16	91.17
PM_{10}	26.0	0.52	25.43
$PM_{2.5}$	9.7	0.10	9.61
VOC	0	0	0
HAPs	0	0	0

[1]Total Facility Emissions include capturable and non-capturable fugitive emissions.
[2]Capturable fugitive emissions include emissions from the crusher.
[3]Non-capturable fugitive emissions include emissions from truck unloading, truck loading, screener, conveyors, storage piles, and unpaved roads.
[4]Carbon monoxide (CO), nitrogen oxides (NO_x), sulfur dioxide (SO_2), volatile organic compounds (VOC), and hazardous air pollutants (HAPs) emissions are not anticipated.
[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, storage piles, and unpaved roads 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 mobile sources 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 capturable emissions above the major source thresholds if operated 8,760 hours per year.

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

    Reason: The opacity and fugitive dust conditions are incorporated into the permit pursuant to 40 CFR Part 60, Subpart OOO.

2. Location Change

    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

Based on the information submitted by Meridian Pacific, Ltd., the Permittee is requesting for an initial temporary CSP for the 220 TPH Omega self-propelled crushing plant and 300 TPH Barford self-propelled screening plant. The crusher and screener are each equipped with an exempt diesel engine propelling the mobile source pursuant to HAR §11-60.1-82(d)(4). The screening plant can be operated in conjunction with the crusher or independently. The crusher and screener will be permitted to operate without any hour limitation since the facility is not a listed source in the HAR §11-60.1-1 definition of “major stationary source”, and the potential emissions are fugitive and not counted toward the major source thresholds. Issuance of a temporary CSP is recommended based on the review of the information provided by the Permittee subject to the permit conditions.

Ukris Wongse-ont
August 6, 2024

Application
and
Supporting Information

Wongse-Ont, Ukris

From: David Fonua <dfonua@meridianpacificltd.com>
Sent: Tuesday, September 3, 2024 11:11 AM
To: Wongse-Ont, Ukris
Cc: Cristy Labanon
Subject: [EXTERNAL] RE: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Sounds great Ukris.

Mahalo

David B. Fonua
Meridian Pacific Ltd | Director of Operations
Cell: 775.318.0011
Email: dfonua@meridianpacificltd.com
Website: www.meridianpacificltd.com

MERIDIAN PACIFIC, LTD.

From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Tuesday, September 3, 2024 10:07 AM
To: David Fonua <dfonua@meridianpacificltd.com>
Cc: Cristy Labanon <clabanon@meridianpacificltd.com>
Subject: RE: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Aloha David,

Thank you for letting me know! After our office internal review, the draft permit will be up for 30-day public comment period and 45-day EPA review.

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)

From: David Fonua <dfonua@meridianpacificltd.com>
Sent: Tuesday, September 3, 2024 10:02 AM
To: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Cc: Cristy Labanon <clabanon@meridianpacificltd.com>
Subject: [EXTERNAL] RE: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Aloha Ukris,

Sorry for the delay, I have no exceptions to the draft permit. We are all good.

Thanks,

David B. Fonua
Meridian Pacific Ltd | Director of Operations
Cell: 775.318.0011
Email: dfonua@meridianpacificltd.com
Website: www.meridianpacificltd.com

MERIDIAN PACIFIC, LTD.

From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Tuesday, September 3, 2024 7:10 AM
To: David Fonua <dfonua@meridianpacificltd.com>
Cc: Cristy Labanon <clabanon@meridianpacificltd.com>
Subject: RE: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Good morning David,

May I follow-up whether you have any comments or questions on the draft permit please?

Please provide your response by Wednesday, 9/4/24.

Thank you,
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)

From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Friday, August 30, 2024 6:58 AM
To: David Fonua <dfonua@meridianpacificltd.com>
Cc: Cristy Labanon <clabanon@meridianpacificltd.com>
Subject: RE: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Aloha David,

Do you have any comments or questions on the draft permit?

Thank you,
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)

From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Friday, August 23, 2024 9:27 AM
To: David Fonua <dfonua@meridianpacificltd.com>
Cc: Cristy Labanon <clabanon@meridianpacificltd.com>
Subject: RE: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Aloha David,

The draft permit is attached for your review and comments. Please review the permit language carefully in its entirety for operational and emission limits, monitoring and recordkeeping, notification and reporting, testing, and change of location requirements. Please let me know whether you have any comments.

After our office internal review, the draft permit will be up for 30-day public comment period and 45-day EPA review.

Please feel free to call me if you have any questions.

Thank you,
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)

From: David Fonua <dfonua@meridianpacificltd.com>
Sent: Wednesday, August 21, 2024 4:08 PM
To: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Cc: Cristy Labanon <clabanon@meridianpacificltd.com>
Subject: [EXTERNAL] Re: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Aloha Ukris,

I hope all is well, just touching base with you, I know you said these permits take a lot of time which is all good. Please let me know if you need anything else from me.

Mahalo.

David

Get Outlook for iOS

From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Thursday, July 25, 2024 2:58:38 PM
To: David Fonua <dfonua@meridianpacificltd.com>
Cc: Cristy Labanon <clabanon@meridianpacificltd.com>
Subject: RE: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Aloha David,

Excellent!

Thank you,
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)

From: David Fonua <dfonua@meridianpacificltd.com>
Sent: Thursday, July 25, 2024 2:06 PM
To: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Cc: Cristy Labanon <clabanon@meridianpacificltd.com>
Subject: [EXTERNAL] Re: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Aloha Ukris,

I apologize for the delay, but we finally found it.

See attached photo. Let me know if you need anything else.

Mahalo

Get Outlook for iOS

From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Thursday, July 18, 2024 7:02:31 AM
To: David Fonua <dfonua@meridianpacificltd.com>
Cc: Cristy Labanon <clabanon@meridianpacificltd.com>
Subject: RE: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Good morning David,

Appreciate you effort. That's good that your are contacting Caterpillar (or even Barford). I have never seen a new Caterpillar engine without the proper nameplate before.

Thank you!
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)

From: David Fonua <dfonua@meridianpacificltd.com>
Sent: Thursday, July 18, 2024 4:43 AM
To: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Cc: Cristy Labanon <clabanon@meridianpacificltd.com>
Subject: [EXTERNAL] RE: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Good Morning Ukris,

I do apologize for the delay, I have combed the engine and can not find another name plate on the cat engine other then the one I have sent previously, I have contacted Cat customer service, to see if they can point me in the right direction.

I will hopefully get some help from them today and be able to provide you with what you need.

Mahalo for your understanding.

David B. Fonua
Meridian Pacific Ltd | Director of Operations
Cell: 775.318.0011
Email: dfonua@meridianpacificltd.com
Website: www.meridianpacificltd.com

MERIDIAN PACIFIC, LTD.

From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Tuesday, July 16, 2024 9:10 AM
To: David Fonua <dfonua@meridianpacificltd.com>
Cc: Cristy Labanon <clabanon@meridianpacificltd.com>
Subject: RE: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Hi David,

As we discussed on last Friday, may I follow-up on the Caterpillar engine nameplate with the date built and horsepower/kW rating please?

Thank you,
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)

From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Friday, July 12, 2024 2:57 PM
To: David Fonua <dfonua@meridianpacificltd.com>
Cc: Cristy Labanon <clabanon@meridianpacificltd.com>
Subject: RE: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Hi David,

Sorry! I think the nameplate in the below email is for the Barford screener's nameplate, not Caterpillar engine. We need the Caterpillar engine's nameplate with date built and horsepower/kW rating.

Thank you,
Ukris

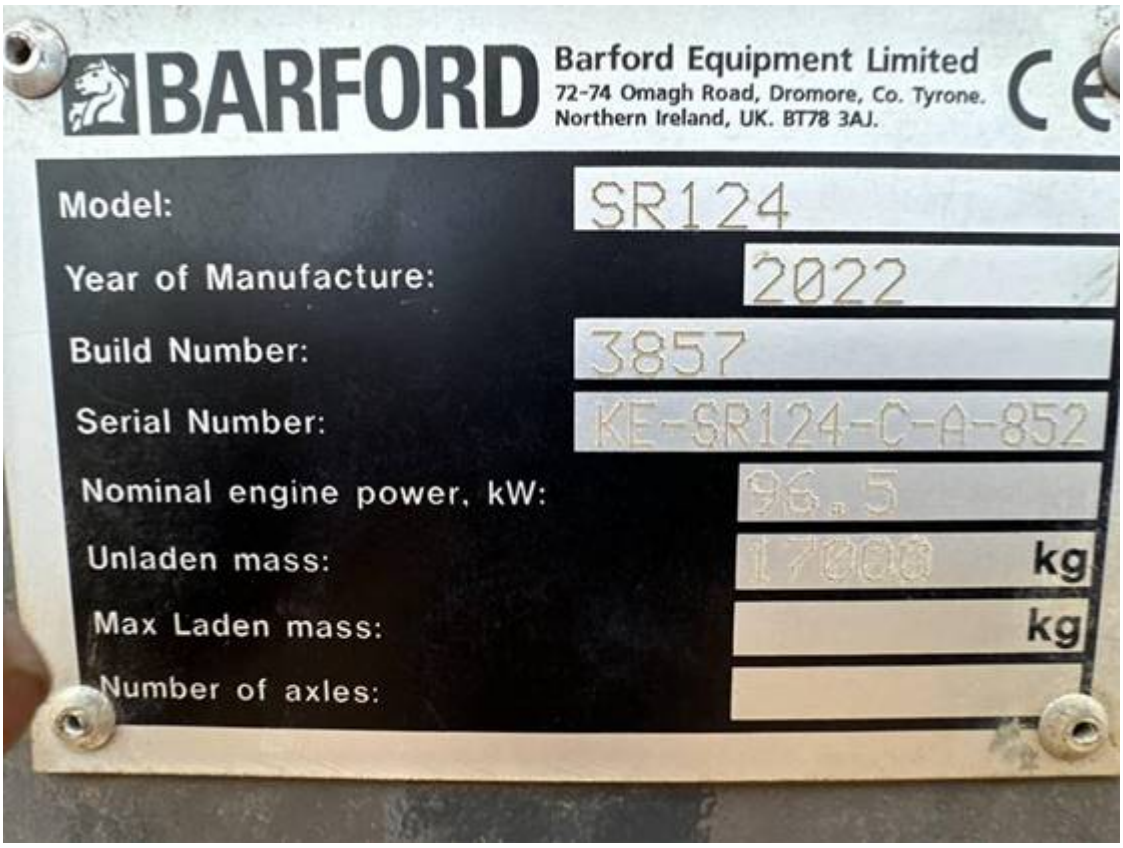
From: David Fonua <dfonua@meridianpacificltd.com>
Sent: Friday, July 12, 2024 2:53 PM
To: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Cc: Cristy Labanon <clabanon@meridianpacificltd.com>
Subject: [EXTERNAL] RE: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Aloha Ukris,,

I'm so sorry, I have been distracted as of late my apologies. See the figure below: This is the Screener Engine.

Please let me know if you need anything else.

Mahalo



David B. Fonua
Meridian Pacific Ltd | Director of Operations
Cell: 775.318.0011
Email: dfonua@meridianpacificltd.com
Website: www.meridianpacificltd.com

MERIDIAN PACIFIC, LTD.

From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Friday, July 12, 2024 10:50 AM
To: David Fonua <dfonua@meridianpacificltd.com>
Cc: Cristy Labanon <clabanon@meridianpacificltd.com>
Subject: RE: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Aloha Friday David,

The nameplate you attached in the email below is for the screener, not the screener's engine. As indicated in the 7/2 12:57pm email, there should be another nameplate on the Caterpillar engine somewhere. As we discussed on the phone, the Caterpillar engine nameplate you sent me earlier (as attached) does not have the manufactured date and horsepower/kilowatt rating.

Thank you,
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)

From: David Fonua <dfonua@meridianpacificltd.com>
Sent: Friday, July 12, 2024 10:43 AM
To: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Cc: Cristy Labanon <clabanon@meridianpacificltd.com>
Subject: [EXTERNAL] Re: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Aloha Ukris please see attached.

Let me know if there is anything else at this time.

Mahalo Nui Loa and Aloha Friday!!

Get Outlook for iOS

From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Friday, July 12, 2024 10:41 AM
To: David Fonua <dfonua@meridianpacificltd.com>
Cc: Cristy Labanon <clabanon@meridianpacificltd.com>
Subject: RE: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Good morning David,

May I follow-up on the screener engine's nameplate please? Specially, the manufactured date and horsepower/kilowatt rating for the Caterpillar engine on the Barford screener.

Thank you,
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)

From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Monday, July 8, 2024 11:23 AM
To: David Fonua <dfonua@meridianpacificltd.com>
Cc: Cristy Labanon <clabanon@meridianpacificltd.com>
Subject: Re: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Hi David,

May I follow-up on the requested additional nameplate on my 7/2 email at 12:57pm please?

On 7/2 at 12:57pm I sent the email below:

> Hi David,
>
> Thank you for the crusher and screener engines' nameplate pictures for Application No. 0909-01 covered source permit. There should be another nameplate somewhere on the Caterpillar engine to show the manufacturer date and horsepower/kilowatt rating. Can you provide a nameplate with the manufacturer date/year and horsepower/kilowatt rating please?
>
> This should be all I need for the covered source permit 0909-01 (CSP) for now.
>
> Are you planning to email me similar information (nameplates pictures) for the stand-alone screener for 0906-01 noncovered source permit (NSP)?
>
> Thank you, David!
> Ukris

Thank you
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)

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From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Monday, July 8, 2024 11:02 AM
To: David Fonua <dfonua@meridianpacificltd.com>
Cc: Cristy Labanon <clabanon@meridianpacificltd.com>
Subject: Re: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Aloha David & Cristy,

Thank you for planning to submit the Form S-1, Form C-1, and certification. Please mail them to the Clean Air Branch office with the wet signatures referencing the Application No. 0909-01 for the covered source permit (CSP), and 0906-01 for the noncovered source permit (NSP).

I will be in the office on Tuesday to discuss on the phone on the CSP and NSP applications

Thank you,
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)

From: David Fonua <dfonua@meridianpacificltd.com>
Sent: Monday, July 8, 2024 10:55 AM
To: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Cc: Cristy Labanon <clabanon@meridianpacificltd.com>
Subject: [EXTERNAL] Re: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Aloha Ukris,
I hope you are doing well and had a wonderful weekend.

Let me introduce you to Cristy, she works with me,
Cristy can you send Ukris the forms I just signed.

Mahalo.

Get Outlook for iOS

From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Tuesday, July 2, 2024 12:57 PM
To: David Fonua <dfonua@meridianpacificltd.com>
Subject: RE: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Hi David,

Thank you for the crusher and screener engines' nameplate pictures for Application No. 0909-01 covered source permit. There should be another nameplate somewhere on the Caterpillar engine to show the manufacturer date and horsepower/kilowatt rating. Can you provide a nameplate with the manufacturer date/year and horsepower/kilowatt rating please?

This should be all I need for the covered source permit 0909-01 (CSP) for now.

Are you planning to email me similar information (nameplates pictures) for the stand-alone screener for 0906-01 noncovered source permit (NSP)?

Thank you, David!
Ukris

From: David Fonua <dfonua@meridianpacificltd.com>
Sent: Tuesday, July 2, 2024 12:03 PM
To: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Subject: [EXTERNAL] Re: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Hi Ukris,

The picture of the Cat engine is the Screener,
The other is the crusher.

Thank you

Get Outlook for iOS

From: David Fonua <dfonua@meridianpacificltd.com>
Sent: Tuesday, July 2, 2024 3:52 PM
To: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Subject: Re: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Hi Ukris,

Yes I will be sending them my mechanic is on-site now and getting the pictures for me.

Thanks

Get Outlook for iOS

From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Tuesday, July 2, 2024 3:26:09 PM
To: David Fonua <dfonua@meridianpacificltd.com>
Subject: RE: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Hi David,

Excellent legible pictures of the nameplates for the crusher and screener. Are you planning to email the pictures of the nameplates for the engines on the crusher and screener as well? I need the information on both engines.

Thank you, David!

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)

From: David Fonua <dfonua@meridianpacificltd.com>
Sent: Tuesday, July 2, 2024 11:20 AM
To: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Subject: [EXTERNAL] Re: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Aloha Ukris,

See the attached name plates. For both the Barford and the Omega.

Mahalo

Get Outlook for iOS

From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Tuesday, July 2, 2024 3:11 PM
To: David Fonua <dfonua@meridianpacificltd.com>
Subject: RE: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Hi David,

Thank you for the pictures of the Barford screener. As requested in the email below, can you provide pictures of all the nameplates for the (1) crusher, (2) crusher's engine, (3) screener and (4) screener's engine, etc., for the Temporary CSP Application No. 0909-01. The nameplates should show the manufactured date, manufacturer, model no., serial no., capacity rating, horsepower, etc.

Thank you,

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)

From: David Fonua <dfonua@meridianpacificltd.com>
Sent: Tuesday, July 2, 2024 11:00 AM

To: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Subject: [EXTERNAL] Re: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Aloha Ukris,

See the attached photos,

The forms and letters will be coming also.

Mahalo

Get Outlook for iOS

From: David Fonua <dfonua@meridianpacificltd.com>
Sent: Tuesday, July 2, 2024 1:51 PM
To: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Subject: RE: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Aloha Ukris,

My sincere apologies for the delay, I had an emergency to deal with, but I will send this information to you today.

Thank you for your patience.

Mahalo

David B. Fonua

Meridian Pacific Ltd | Director of Operations

Cell: 775.318.0011

Email: dfonua@meridianpacificltd.com

Website: www.meridianpacificltd.com

MERIDIAN PACIFIC, LTD.

From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Tuesday, July 2, 2024 7:24 AM
To: David Fonua <dfonua@meridianpacificltd.com>
Subject: RE: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Aloha David,

May I follow-up on the requested pictures for the 0909-01 Temporary Covered Source Permit (CSP) in the email below please? Also, may I ask when are you planning to submit forms for the new Responsible Official?

Thank you,

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)

From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Thursday, June 27, 2024 2:02 PM
To: dfonua@meridianpacificltd.com
Subject: Air Permit Application No. 0909-01 for an Initial Temporary Covered Source Permit (CSP)

Aloha David,

Thank you for letting me know that you will be the new Responsible Official in place of Mr. Michael Mitchener. Please fill out and submit Form S-1, Form C-1, and certification to reflect the new Responsible Official for the permit with your wet signature to the State of Hawaii, Department of Health, Clean Air Branch. The forms can also be found at the CAB's website at the link below.

As part of my review of Application No. 0909-01 for a Temporary Covered Source Permit (CSP) for the proposed jaw crusher and screener, I would like to request pictures of the following:

- (1) 300 TPH Barford screener, Model SR124, (2) screener's nameplate(s), and (3) screener engine's nameplate(s).
- (1) 220 TPH Omega jaw crusher, Model J1065T, (2) jaw crusher's nameplate(s), and (3) jaw crusher engine's nameplate(s).

Please provide legible pictures of all the nameplates to show the manufactured date, manufacturer, model, serial number, horsepower rating, etc., as applicable.

Thank you,
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)

From: Wongse-Ont, Ukris
To: Wong, David Tien Lun; Watanabe, Shirley
Cc: Lopez, Catherine
Subject: RE: INITIAL PERMIT - Drafts Permit and Review for Initial Temporary CSP No. 0909-01-CT (Meridian Pacific, Ltd.)
Date: Friday, August 30, 2024 9:23:56 AM

Hi David & Shirley,

Thank you for taking a look at the draft initial covered source permit no. 0909-01-CT.

- Attachment II, Section D, Special Condition 1: Auth is missing subsection 11-60.1-5.
  - More restrictive condition is not applicable.
- Attachment II, Section D, Special Condition 3: Auth is missing a superscript one outside of the parenthesis.
  - Superscript added
- Attachment II, Section D, Special Condition 6: Auth is missing SIP subsection 11-60-26 and superscript two outside of parenthesis.
  - The SIP should be 11-60-24 instead.
  - Superscript added
- Attachment II, Section E, Special Condition 4: Auth is missing subsection 11-60.1-5.
  - 11-60.1-5 reference added
- Attachment II, Section F, Special Condition 2: Move Performance Test Methods heading to next page.
  - Up to clerical to make any formatting adjustments
- Compliance Certification Form under top gray box: Page 1 of ___), Page 2 of ___), Page ___ of ___), Annual Emissions Report Form, Monitoring Report Form, Change of Location Request form Page 1 of 3, Page 2 of 3, and Page 3 of 3, Visible Emission Form: Please bold (Make Copies for Future Use) and (Make Copies for Future Use for Each Stack or Emission Point).
  - Bolding is not necessary.

Thank you,
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)

From: Wong, David Tien Lun <david.wong@doh.hawaii.gov>
Sent: Friday, August 30, 2024 8:37 AM
To: Watanabe, Shirley <shirley.watanabe@doh.hawaii.gov>; Wongse-Ont, Ukris <ukris.wongse-

ont@doh.hawaii.gov>
Subject: RE: INITIAL PERMIT - Drafts Permit and Review for Initial Temporary CSP No. 0909-01-CT (Meridian Pacific, Ltd.)

Hi Ukris,

Shirley was the only person who had comments.

Thanks,

David

David Wong
Compliance and Enforcement Section Supervisor | Clean Air Branch
Hawai'i State Department of Health | Ka 'Oihana Olakino
2827 Waimano Home Rd #130 | Pearl City, HI 96782
Office: (808) 586-4200

From: Watanabe, Shirley <shirley.watanabe@doh.hawaii.gov>
Sent: Friday, August 30, 2024 8:02 AM
To: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Cc: Wong, David Tien Lun <david.wong@doh.hawaii.gov>
Subject: FW: INITIAL PERMIT - Drafts Permit and Review for Initial Temporary CSP No. 0909-01-CT (Meridian Pacific, Ltd.)

Hi Ukris,

Please see below.

Thanks,
Shirley Watanabe
Clean Air Branch
Hawaii State Department of Health | Ka `Oihana Olakino
P.O. Box 3378 | Honolulu, HI 96801
Office: (808) 586-4200

sender immediately in a separate e-mail and destroy the original message and any copies.

From: Watanabe, Shirley
Sent: Friday, August 30, 2024 7:11 AM
To: Wong, David Tien Lun <david.wong@doh.hawaii.gov>
Subject: RE: INITIAL PERMIT - Drafts Permit and Review for Initial Temporary CSP No. 0909-01-CT (Meridian Pacific, Ltd.)

Hi David,

Please see the following comments:

Attachment II, Section D, Special Condition 1: Auth is missing subsection 11-60.1-5.

Attachment II, Section D, Special Condition 3: Auth is missing a superscript one outside of the parenthesis.

Attachment II, Section D, Special Condition 6: Auth is missing SIP subsection 11-60-26 and superscript two outside of parenthesis.

Attachment II, Section E, Special Condition 4: Auth is missing subsection 11-60.1-5.

Attachment II, Section F, Special Condition 2: Move Performance Test Methods heading to next page.

Compliance Certification Form under top gray box: Page 1 of ___), Page 2 of ___), Page ___ of ___), Annual Emissions Report Form, Monitoring Report Form, Change of Location Request form Page 1 of 3, Page 2 of 3, and Page 3 of 3, Visible Emission Form: Please bold (Make Copies for Future Use) and (Make Copies for Future Use for Each Stack or Emission Point).

Thank you for the opportunity to comment on the initial permit draft.

Shirley Watanabe

Clean Air Branch

Hawaii State Department of Health | Ka `Oihana Olakino

P.O. Box 3378 | Honolulu, HI 96801

Office: (808) 586-4200

From: Wong, David Tien Lun <david.wong@doh.hawaii.gov>
Sent: Friday, August 23, 2024 10:42 AM
To: Yoshimoto, Jere <jere.yoshimoto@doh.hawaii.gov>; Watanabe, Shirley <shirley.watanabe@doh.hawaii.gov>; Liu, Brandon Jiacai <jiacai.liu@doh.hawaii.gov>; Taylor, Leela <leela.taylor@doh.hawaii.gov>; Saneishi, Lance <lance.Saneishi@doh.hawaii.gov>; Stensrud, Jill <jill.stensrud@doh.hawaii.gov>; Kailukaitis, Halia <halia.kailukaitis@doh.hawaii.gov>
Subject: FW: INITIAL PERMIT - Drafts Permit and Review for Initial Temporary CSP No. 0909-01-CT (Meridian Pacific, Ltd.)

Hi everyone,

Please send me any comments by Ukris's deadline.

Thanks,

David

David Wong

Compliance and Enforcement Section Supervisor | Clean Air Branch

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

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

Office: (808) 586-4200

From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Friday, August 23, 2024 9:37 AM
To: Young, Lisa Y L; Wong, David Tien Lun <david.wong@doh.hawaii.gov>
Cc: Lopez, Catherine <catherine.lopez@doh.hawaii.gov>
Subject: INITIAL PERMIT - Drafts Permit and Review for Initial Temporary CSP No. 0909-01-CT (Meridian Pacific, Ltd.)

Hi Lisa & David,

Meridian Pacific, Ltd., submitted an initial permit application to operate a new self-propelled jaw crusher and a self-propelled screener. The drafts permit and review are attached for your review and comments. Can you let me know whether you have any comments by next Friday, 8/30/24, please? Thank you!

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)

From:	Wongse-Ont, Ukris
To:	Uyesono, Laci-Ann
Cc:	Young, Lisa Y L; Lopez, Catherine
Subject:	Re: INITIAL PERMIT - Drafts Permit and Review for Initial Temporary CSP No. 0909-01-CT (Meridian Pacific, Ltd.)
Date:	Wednesday, August 28, 2024 11:21:01 AM
Attachments:	image.png

Hi Laci,

Thank you for taking a look at the draft permit. The serial numbers of the crusher and screener are specified in the draft permit at Attachment II: Special Conditions, Section A Equipment Description.

The physical address and actual location with UTM coordinates are taken from the application Form S-1. I had the same thinking as you did that Meridian Pacific will likely utilize the north entrance of the property on Kiahuna Plantation Drive since the proposed crusher and screener will be located on that end of the property. Here is the proposed location for the UTM coordinates provided by Meridian Pacific.

Thank you, Laci!
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)

From: Uyesono, Laci-Ann
Sent: Wednesday, August 28, 2024 10:30 AM
To: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Cc: Young, Lisa Y L
Subject: RE: INITIAL PERMIT - Drafts Permit and Review for Initial Temporary CSP No. 0909-01-CT (Meridian Pacific, Ltd.)

Hi Ukris,

I have no real comments on this permit. Although I am curious about why we don't have to work the serial numbers of the equipment into the permit, since its provided on review.

I will say that the location address has been updated from what they are indicating. I had a couple of

complaints about it from 2020 and then the other year when they were blasting since the location shares a border with a golf course and has multimillion dollar homes downwind. When I pull it up on our County Real Property website, the address that is has now been assigned is 2783 Kiahuna Plantation Dr. I am guessing because that will be where the assigned entrance will be.

https://qpublic.schneidercorp.com/Application.aspx?AppID=986&LayerID=20101&PageTypeID=1&PageID=8741&KeyValue=280140320000

thanks,

Laci

Laci Ann Uyesono
Environmental Health Specialist
Hawai'I State Department of Health | Ka 'Oihana Olakino
Office: (808) 241-3323

From: Young, Lisa Y L
Sent: Friday, August 23, 2024 9:45 AM
To: Uyesono, Laci-Ann
Subject: FW: INITIAL PERMIT - Drafts Permit and Review for Initial Temporary CSP No. 0909-01-CT (Meridian Pacific, Ltd.)

Hi Laci,

Can you please review this draft permit? It's location is on Kauai.

Please send comment to Ukris and copy me.

Thank you,
Lisa

From: Wongse-Ont, Ukris <ukris.wongse-ont@doh.hawaii.gov>
Sent: Friday, August 23, 2024 9:37 AM
To: Young, Lisa Y L; Wong, David Tien Lun <david.wong@doh.hawaii.gov>
Cc: Lopez, Catherine <catherine.lopez@doh.hawaii.gov>
Subject: INITIAL PERMIT - Drafts Permit and Review for Initial Temporary CSP No. 0909-01-CT

(Meridian Pacific, Ltd.)

Hi Lisa & David,

Meridian Pacific, Ltd., submitted an initial permit application to operate a new self-propelled jaw crusher and a self-propelled screener. The drafts permit and review are attached for your review and comments. Can you let me know whether you have any comments by next Friday, 8/30/24, please? Thank you!

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)

BARFORD

Barford Equipment Limited
72-74 Omagh Road, Dromore, Co. Tyrone.
Northern Ireland, UK. BT78 3AJ.

CE

Model:	SR124
Year of Manufacture:	2022
Build Number:	3857
Serial Number:	KE-SR124-C-A-852
Nominal engine power, kW:	96.5
Unladen mass:	17000 kg
Max Laden mass:	kg
Number of axles:	


SR124


SR124
SN#A-852
YOUNG
YOUNG
BARFORD
WFHU 1015
WFHU 601015 5
Young Brothers


SR124
YOUNG
BROTHER
YOUNG

EMISSION CONTROL INFORMATION

CAT® Manufactured by Perkins Engines Co. Ltd.

68167 Mannheim, Germany

ENGINE FAMILY: C4.4
DISPLACEMENT: 4.40

MODEL YEAR: 2019 ARGT NUMBER: 503 – 4924
SERIAL NUMBER: W2311186

ENGINE TYPE:

Factory Set			Reset if Applicable
[X]	4520 / 1800	88.3 kW	[ ]
[ ]	4520 / 1500	77.1 kW	[ ]
[ ]	/	kW	[ ]
[ ]	/	kW	[ ]
[ ]	/	kW	[ ]

Use Service to [illegible]fy current engine

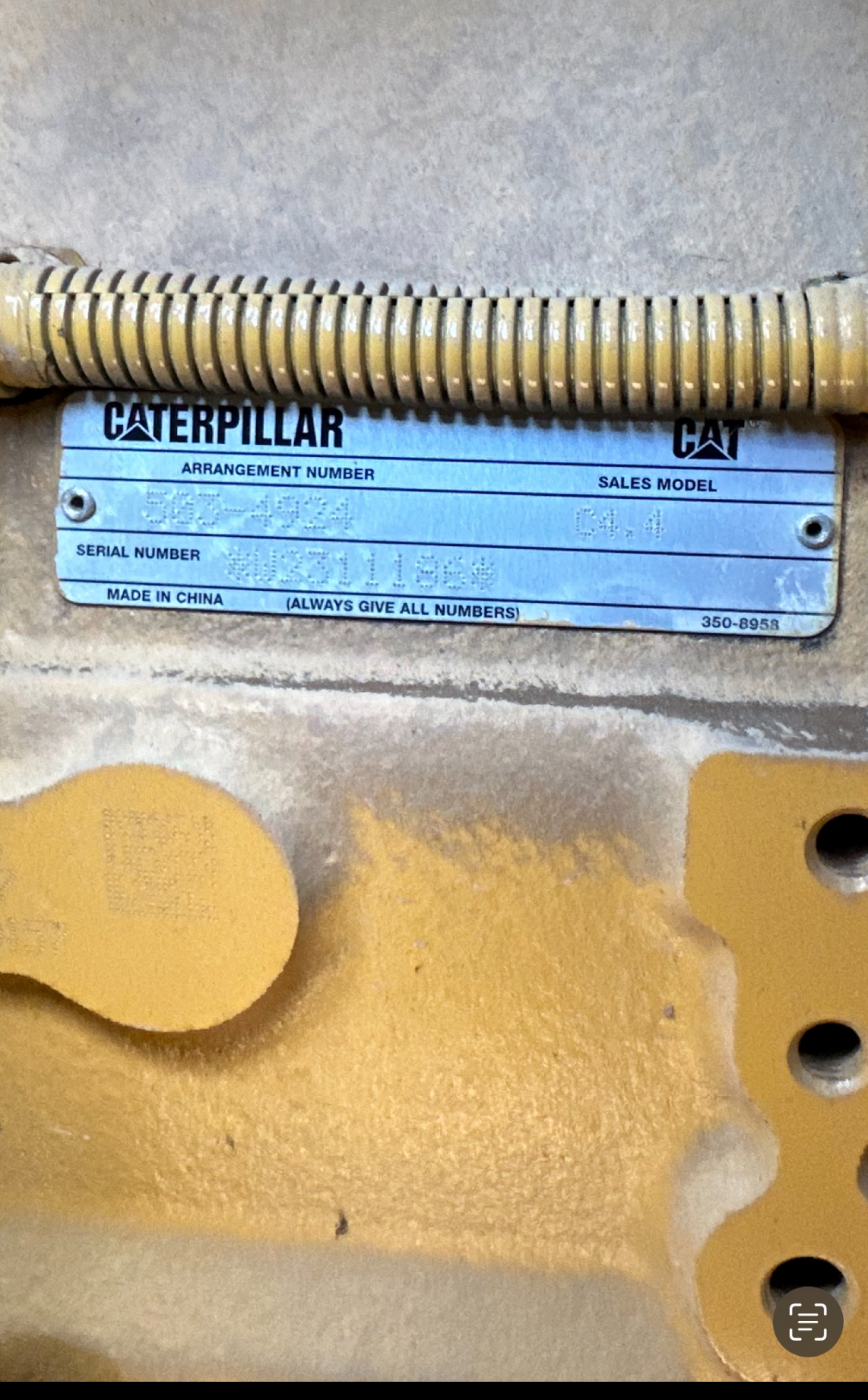
INFORMATION APPLICABLE TO USA ONLY
THIS ENGINE IS SOLELY FOR EXPORT AND IS THEREFORE EXEMPT UNDER 40 CFR 1068.230 FROM U.S. EMISSION STANDARDS AND RELATED REQUIREMENTS

e5*97/68IB*2010/26*1000*00
Stage: IIIA
E11
96R- 023596

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.

1304

生产日期 DATE OF MANUFACTURE: SEP 2019


CATERPILLAR
CAT
ARRANGEMENT NUMBER
SALES MODEL
SERIAL NUMBER
MADE IN CHINA
(ALWAYS GIVE ALL NUMBERS)
350-8958

MODEL	TCD 7.8 L6			SERNO	13047709	MFGDATE	06/2023
DISPL	7.755	RPM	1800	SPEC	25014209	120R	010179
		KW	210,0	CSPEC			

e1 EV6/D V-0006

FT TCD7.8VNREv6F2 C5VI210

DEUTZ®

DEUTZ AG OTTOSTRASSE 1, D-51149 KOELN MADE IN GERMANY

EMISSION CONTROL INFORMATION
THIS ENGINE COMPLIES WITH U.S. EPA REGUL
2023 NONROAD / STATIONARY DIESEL ENGINES
FORNIA REGULATIONS FOR 2023 OFFROAD COMP
IGNITION ENGINES. FAMILY PDZXL07.8051
ECS:DDI,TC,CAC,ECM,EGR,DOC,CTOX,SCR
FUEL: DIESEL ULTRA LOW SULFUR FUEL ONLY

CS SN

CE UK CA UK NI

Ωmega
CRUSHING & SCREENING

Unit 10 Enterprise Park,
Castlederg,
Co.Tyrone,
BT81 7PX,
Northern Ireland.

+44 (0) 28 8167 8571
www.omegacrusher.com
info@omegacrusher.com

Year of Manufacture	2023
Model	J1065T
Machine Serial No.	SA9J1065TE1451043
Engine Serial No.	13047709
Unit Mass	31,500 kg
Voltage	240/480 V
Nominal Power	173kW

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

For
220 TPH OMEGA J1065T Jaw Crusher & BARFORD SR124 2-Deck Screen
located at
Various Temporary Sites, State of Hawaii

OMEGA J1065T Jaw Crusher

BARFORD SR 124 2-Deck Screen

FACILITY NAME:

Crushing and Screening Plant

OWNER:

Meridian Pacific, Ltd.
94-050 Farrington Hwy
Waipahu, HI 96797

April 17, 2024

PREPARED BY:

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

File 2401013

Introduction

This is an application for a new temporary covered source permit for a 220 TPH OMEGA J1065T self-propelled Jaw Crusher powered by a 220 kW Deutz TCD7.8L6 diesel engine and a 300 TPH Barford SR124 self-propelled Double Deck Screen powered by a 75hp Caterpillar engine. The equipment is owned and operated by Meridian Pacific, Ltd., 94-050 Farrington Hwy, Waipahu, HI 96797.

An operating hour limitation of 5000 hours per year is requested with this application.

This is a temporary permit application where the equipment will be moved at least once during the permit term. (HAR 11-60.1-81)

Note:
The crusher and the screen are self-propelled, equipped with tracks. The diesel engines powering the crusher and the screen 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 the diesel engines with temporary replacement units of the same or smaller size if any repair reasonably warrants the removal of the diesel engines from the site.

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: **MERIDIAN PACIFIC, LTD.**
2. Facility Name (if different from the Company): **CRUSHING AND SCREENING PLANT**
3. Mailing Address: **94-050 Farrington Highway**

   City: **Waipahu** State: **HI** Zip Code: **96797**

   Phone Number: **(808) 677-6700**
4. Name of Owner/Owner's Agent: **Michael Mitchener**

   Title: **VP Construction - Kauai** Phone: **(808) 464-9968**

   Mailing Address: **94-050 Farrington Highway**

   City: **Waipahu** State: **HI** Zip Code: **96797**
5. Plant Site Manager/Other Contact: **Michael Mitchener**

   Title: **VP Construction - Kauai** Phone: **(808) 464-9968**

   Mailing Address: **94-050 Farrington Highway**

   City: **Waipahu** State: **HI** Zip Code: **96797**

6. Permit Application Basis: (Check One.)

   X Initial Permit for a New Source — Initial Permit for an Existing Source
   Renewal of Existing Permit — General Permit
   Temporary Source — Transfer of Permit
   Modification: ===> Is Modification? Significant Minor Uncertain
7. If renewal or modification, include existing permit number: **N/A**
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: **VARIOUS LOCATIONS STATE OF HAWAII INITIAL LOCATION: 5425 Pau a Laka Street,**

City: **Koloa** State: **HI** Zip Code: **96756**

UTM Coordinates: **Zone 4, 452,630 m East - 2,420,803 m North**

12. General Nature of Business: **CRUSHING AND SCREENING PLANT**

13. Date of Planned Commencement of Construction or Modification: **upon receipt of modification 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): **Mitchener** (First): **Michael** (MI):

Title: **VP Construction - Kauai** Phone: : **(808) 464-9968**

Mailing Address: **94-050 Farrington Highway**

City: **Waipahu** State: **HI** Zip Code: **96797**

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): Michael Mitchener, **VP Construction - Kauai**

(Signature): Michael Mitchener Date: 4/23/24

COMPANY NAME: MERIDIAN PACIFIC, LTD. FILE NO:

LOCATION: TEMPORARY 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
	1	220 TPH OMEGA JAW CRUSHER	2023	TSP	1.353	3.382	4	452, 630	2,420, 803	N/A	N/A	N/A	N/A	N/A	N/A
		MODEL J1065T		PM10	0.601	1.501									
				PM2.5	0.180	0.451									
		FUGITIVE DUST FROM STORAGE PILES & UN-		TSP	2.845	7.111									
		PAVED ROADS		PM10	1.183	2.958									
				PM2.5	0.295	0.738									

COMPANY NAME: MERIDIAN PACIFIC, LTD. FILE NO:

LOCATION: TEMPORARY 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
	1	300 TPH BARFORD DOUBLE DECK SCREEN	2023	TSP	29.439	73.597	4	452, 630	2,420, 803	N/A	N/A	N/A	N/A	N/A	N/A
		MODEL SR124		PM10	7.380	18.450									
				PM2.5	2.214	5.535									
		FUGITIVE DUST FROM STORAGE PILES & UN-		TSP	3.879	9.697									
		PAVED ROADS		PM10	1.613	4.033									
				PM2.5	0.403	1.007									

File No.: 2401013

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
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
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	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.

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: Beginning Date:

(less than or equal to 6 months)

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): Michael Mitchener, **VP Construction - Kauai**

(Signature):  Date: 4/23/24

File No.: 2401013

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): Michael Mitchener, **VP Construction - Kauai**

(Signature): Michael Mitchener Date: 4/23/24

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: **220 TPH Omega J1065T Jaw Crusher and 300 TPH Barford SR124 Double 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
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
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.

Michael Mitchener	Michael Mitchener	4/23/24
Michael Mitchener	VP Construction - Kauai	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:

Jaw Crusher:

Manufacturer	: OMEGA CRUSHING AND SCREENING
Year built	: 2023
Model	: J1065T
Serial Number	: TBA
Max. Throughput	: 220 TPH

Crusher Engine:

Manufacturer	: DEUTZ
Year Built	: 2023
Model	: TCD 7.8 L6
Serial Number	: TBA
Size	: 348 HP
Fuel	: Ultra Low Sulfur Diesel (ULSD)
Max. Fuel Consumption*	: 15.7 gal/hr

* Manufacturer specific fuel consumption 0.32 lb/hph
348 hp x 0.32 lb/hph = 111.36 lb/hr / 7.1 lb/gal = 15.7 gal/hr

Screener:

Manufacturer	: BARFORD
Year Manufactured	: 2023
Model	: SR124
Type	: Double Deck Screen
Serial Number	: TBA
Max. Throughput	: 300 TPH :

Powered by:

Manufacturer	: CATERPILLAR
Year Manufactured	: 2023
Model	: C4.4
Serial Number	: TBA
Max. Power/Speed	: 75 HP
Fuel Consumption	: 4.4 gallons/hour
Heat Input	: 0.61 mmbtu

Heat input calculation:
Where: 1 gal diesel fuel = 138,700 btu
4.4 gal/hr x 138,700 btu/gal = 610,280 btu = 0.61 mmbtu

Note: With a maximum heat input of 0.61 mmbtu this engine is considered an insignificant activity.

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 Omega jaw crusher is a portable self-propelled crushing plant on tracks.
It features a vibrating feeder/hopper, a single toggle jaw crusher, a fines conveyor and a main discharge conveyor.
The feed material is loaded into the feeder/hopper, then travels to the crusher. The crushed material falls onto the discharge conveyor belt. The belt either deposits the material into the feeder of another crusher or a screen or deposits it onto a stockpile. Fines are sorted out by the hopper and are moved to a stockpile by the fines conveyor.

The Barford SR124 double deck screen is a portable self-propelled screening plant on tracks. It features a feed hopper, double deck screen and three material conveyor belts. Feed material consists of aggregate, rocks, and/or topsoil. Material is loaded into the hopper either by conveyor from a crusher, front-end loader, or excavator. From the hopper the material travels to the top screen. Oversize material travels by overs conveyor to a stockpile. Undersize material falls to the bottom screen. Oversize bottom screen material travels by side conveyor to stockpile. Undersize material travels by other side conveyor to stockpile.

HAR 11-60.1-83 (3) Emissions Trading

N/A, there is no emissions trading.

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

Emissions consist of fugitive dust from the crusher and the screen. PM and PM10 Emission rates are based on AP42. PM2.5 emissions are based on AP42 and CEIDARS table PM2.5 fractions, Mineral Products, Crushing, Screening, Blasting, Loading and Unloading where PM2.5 equals 0.3 of PM10.

The OMEGA J1065T Jaw Crusher is equipped with a water spray system to control fugitive emissions.

The BARFORD SR124 Double Deck Screen is not equipped with a water spray system. Emissions are controlled by keeping the material damp. Fugitive emissions from stockpiles and/or unpaved road traffic are controlled by water hose and/or a water truck.

Uncontrolled emissions are reduced by 70% as per AP42, due to using water to control the emissions.

Since the diesel engines are exempt and/or insignificant activities, their emissions are not considered and there are no emission points.

For detailed calculations, please refer to appendix B, Annual Emissions Calculations.

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

There are no point emissions since the diesel engines are exempt and/or insignificant activities.

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

The crusher is equipped with water-sprays to control fugitive dust. Material to be screened is kept damp. 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% (AP42).

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
  - 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

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

An operating hour limitation of 5000 hours per year is requested with this application.

The 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.

This application requests the following as an alternate operating scenario:
The permittee may replace the diesel engines with engines of the same size or smaller if warranted by breakdown of the existing engines.

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 plant is portable and may be operated at different locations within the State of Hawaii. The plant will be moved at least once within the permit term.

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 (220 TPH for crusher and 300 tph for screen); and on 5000 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.

Controlled crusher and screen fugitive emissions:

Controlled Crusher & Screen Emissions and Trigger Levels (TPY)					
Pollutant	**Emissions (No Limits)**	**BACT Significant Levels**	**AERR Thresholds**	**DOH Levels**	**Wind Erosion And Vehicle Travel Emissions**
CO	**0**	100	1000	250	**0**
NO_X	**0**	40	100	25	**0**
SO_2	**0**	40	100	25	**0**
PM (TSP)	**76.979**	25	-	25	**16.808**
PM10	**19.951**	15	100	25	**6.991**
PM2.5	**5.986**	10	100	-	**1.745**
VOC	**0**	40	100	25	**0**
HAPs	**0**	-	-	5	**0**

Plant PM (TSP) is above BACT significant and DOH level. Plant PM10 is above BACT level, but below DOH level. Plant PM2.5 is below BACT and DOH level. There is no AERR threshold for PM (TSP). Both PM10 and PM2.5 are below AERR Thresholds.

A BACT analysis is applicable only to new covered sources and significant modifications to covered sources that have the potential to emit or increase emissions above significant levels as defined in HAR 11-60.1-1.

Since PM (TSP) and PM10 exceed the BACT significant levels, a BACT analysis has been conducted. Please see Appendix D.

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

The equipment to be covered under this permit application is already built and is being shipped to Hawaii. The equipment is highly mobile and can be set up and operated within a very short time.

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 for the proposed jaw crusher and screen because 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 applicant will test as required by the permit once it is issued.

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

Fuel and 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)

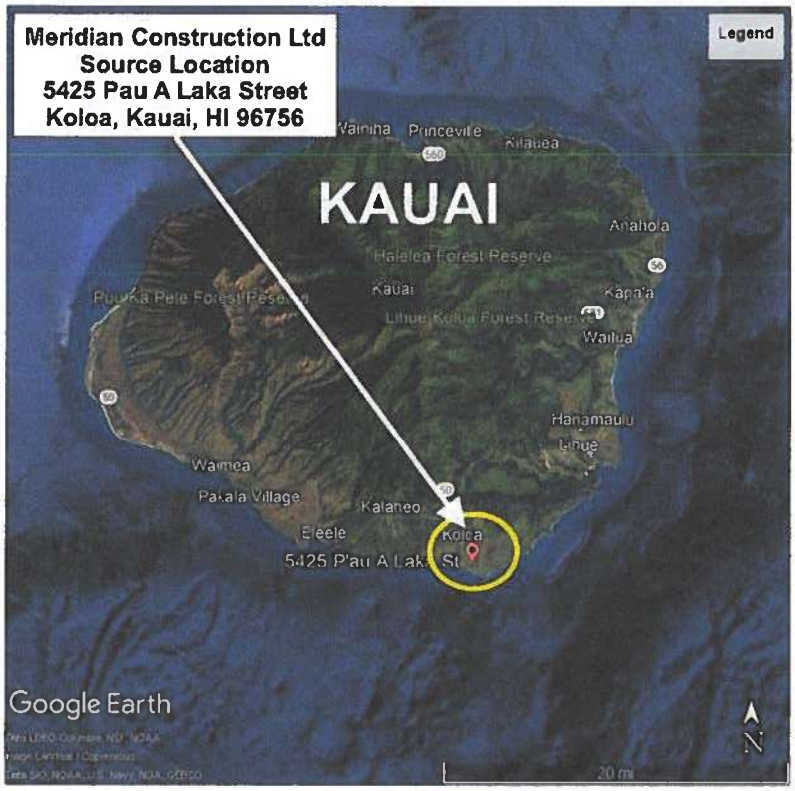
Check No 1102 dated 4/23/24

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

APPENDIX A

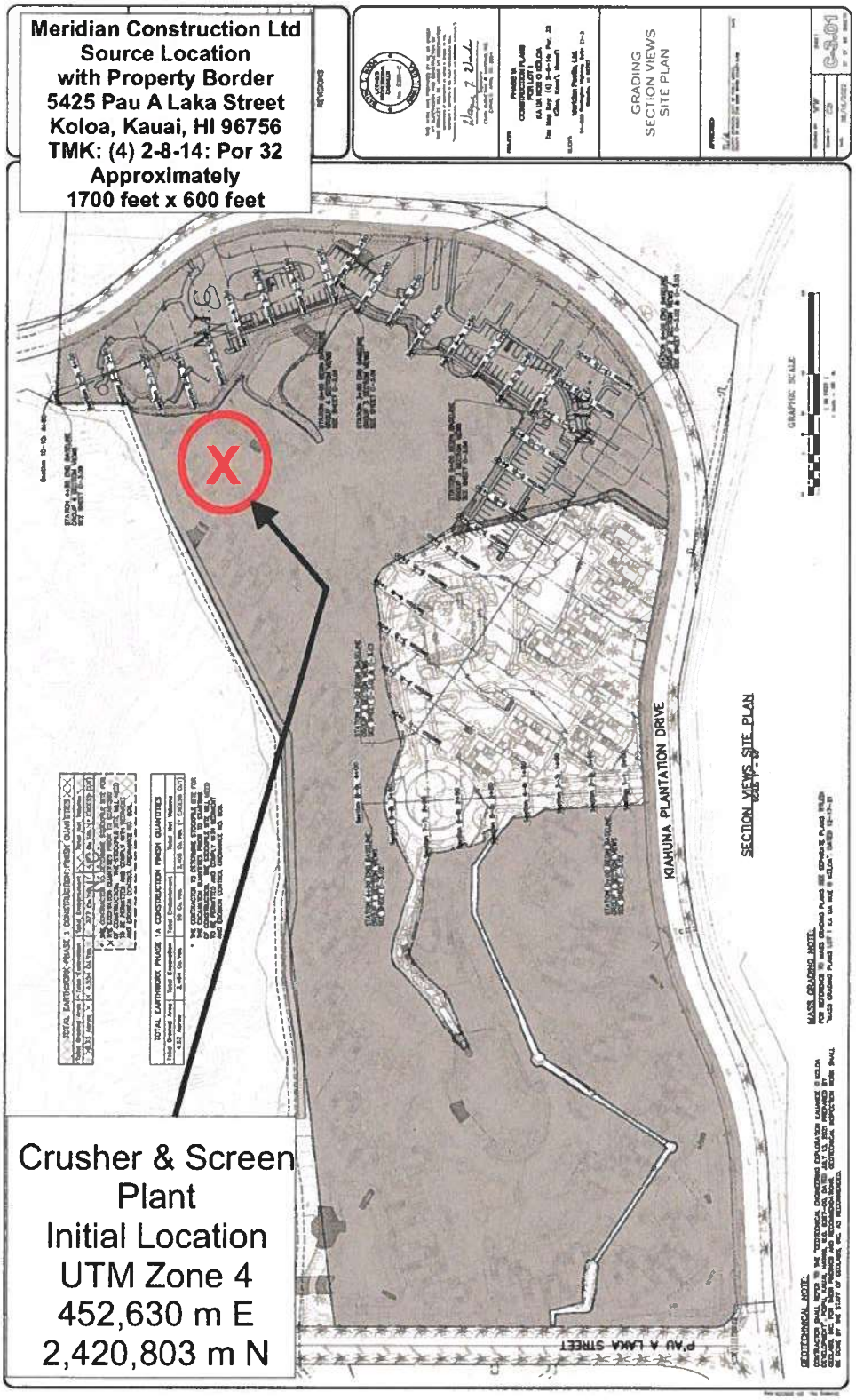
LOCATION & SITE MAPS

Meridian Construction, Ltd - Screen Location - Page 1



Meridian Construction, Ltd - Screen Location - Page 2

Meridian Construction, Ltd - Screen Location - Page 3



APPENDIX B
Annual Emission Calculations

Annual Emission Calculations for 220 TPH OMEGA J1065T JAW Crusher

Calculation Basis:

Maximum Processing rate : 220 TPH
Transfer Points: 4
Operating hours: 5000 hours/year
Emission Factors: AP 42 (11.19.2-2, 8/04 and 13.2.2, 11/06

Fugitive Emissions of Particulate Matter (TSP):

Activity	SCC	Lb/hr	TPY
Primary Crushing uncontrolled	3-05-020-01	0.528	1.320
Conveyor Transfer Point uncontrolled (6)	3-05-020-06	3.960	9.900
Truck unloading uncontrolled	3-05-020-32	0.022	0.055
TOTAL UNCONTROLLED		**4.510**	**11.275**
Less Control (70%)		3.157	7.893
TOTAL CONTROLLED		**1.353**	**3.382**

Storage Pile and Unpaved Roads (TSP):

Activity	SCC	Lb/hr	TPY
Storage Piles uncontrolled		6.239	15.597
Unpaved Roads uncontrolled		3.243	8.107
TOTAL UNCONTROLLED		**9.482**	**23.704**
Less Control (70%)		6.637	16.593
TOTAL CONTROLLED		**2.845**	**7.111**

Fugitive Emissions of Particulate Matter (PM10):

Activity	SCC	Lb/hr	TPY
Primary Crushing uncontrolled	3-05-020-01	0.528	1.320
Conveyor Transfer Point uncontrolled (6)	3-05-020-06	1.452	3.630
Truck unloading uncontrolled	3-05-020-32	0.022	0.055
TOTAL UNCONTROLLED		**2.002**	**5.005**
Less Control (70%)		1.401	3.504
TOTAL CONTROLLED		**0.601**	**1.501**

Storage Pile and Unpaved Roads (PM10):

Activity	SCC	Lb/hr	TPY
Storage Piles uncontrolled		2.951	7.377
Unpaved Roads uncontrolled		0.993	2.482
TOTAL UNCONTROLLED		**3.944**	**9.859**
Less Control (70%)		2.761	6.901
TOTAL CONTROLLED		**1.183**	**2.958**

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	0.158	0.396
Conveyor Transfer Point uncontrolled (6)	3-05-020-06	0.436	1.089
Truck unloading uncontrolled	3-05-020-32	0.007	0.017
TOTAL UNCONTROLLED		**0.601**	**1.502**
Less Control (70%)		0.421	1.051
TOTAL CONTROLLED		**0.180**	**0.451**

Storage Pile and Unpaved Roads (PM2.5):

Activity	SCC	Lb/hr	TPY
Storage Piles uncontrolled		0.885	2.213
Unpaved Roads uncontrolled		0.099	0.248
TOTAL UNCONTROLLED		**0.984**	**2.461**
Less Control (70%)		0.689	1.723
TOTAL CONTROLLED		**0.295**	**0.738**

Annual Emissions Calculations for 300 TPH Barford SR124 Double Deck Screen

Calculation Basis:

Maximum Processing rate : 300 TPH
Operating hours: 5000 hours/year
Transfer Points: 9
Emission Factors: EPA AP42, table 11.19.2-2, 8/04 & 13.2.2, 11/06

Controlled Fugitive Emissions of Particulate Matter (TSP):

Activity	SCC	(lb/hr)	(tpy)
Fines Screening uncontrolled	3-05-020-21	90.000	225.000
Conveyor Transfer Point uncontr. (9)	3-05-020-06	8.100	20.250
Truck unloading uncontrolled	3-05-020-32	0.030	0.075
Total uncontrolled		**98.130**	**245.325**
Less Control 70%		68.691	171.728
TOTAL CONTROLLED		**29.439**	**73.597**
Storage Piles uncontrolled		8.507	21.269
Unpaved Roads uncontrolled		4.422	11.055
Total uncontrolled		**12.929**	**32.324**
Less Control 70%		9.050	22.627
TOTAL CONTROLLED		**3.879**	**9.697**

Controlled Fugitive Emissions of Particulate Matter (PM10):

Activity	SCC	(lb/hr)	(tpy)
Fines Screening uncontrolled	3-05-020-21	21.600	54.000
Conveyor Transfer Point uncontr. (4)	3-05-020-06	2.970	7.425
Truck unloading uncontrolled	3-05-020-32	0.030	0.075
Total uncontrolled		**24.600**	**61.500**
Less Control 70%		17.220	43.050
TOTAL CONTROLLED		**7.380**	**18.450**
Storage Piles uncontrolled		4.024	10.060
Unpaved Roads uncontrolled		1.354	3.384
Total uncontrolled		**5.378**	**13.444**
Less Control 70%		3.765	9.411
TOTAL CONTROLLED		**1.613**	**4.033**

Controlled Fugitive Emissions of Particulate Matter (PM2.5):

Activity	SCC	(lb/hr)	(tpy)
Fines Screening uncontrolled	3-05-020-21	6.480	16.200
Conveyor Transfer Point uncontr. (9)	3-05-020-06	0.891	2.228
Truck unloading uncontrolled	3-05-020-32	0.009	0.023
Total uncontrolled		**7.380**	**18.451**
Less Control 70%		5.166	12.916
TOTAL CONTROLLED		**2.214**	**5.535**
Storage Piles uncontrolled		1.207	3.018
Unpaved Roads uncontrolled		0.135	0.338
Total uncontrolled		**1.342**	**3.356**
Less Control 70%		0.939	2.349
TOTAL CONTROLLED		**0.403**	**1.007**

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.

Total Controlled Fugitive Emissions for Crusher and Screen

Particulate Matter (TSP):

Activity	Crusher (tpy)	Screen (tpy)	Total (tpy)
Plant Emissions	3.382	73.597	76.979
Storage Piles & Roads Emissions	7.111	9.697	16.808

Particulate Matter (PM10):

Activity	Crusher (tpy)	Screen (tpy)	Total (tpy)
Plant Emissions	1.501	18.450	19.951
Storage Piles & Roads Emissions	2.958	4.033	6.991

Particulate Matter (PM2.5):

Activity	Crusher (tpy)	Screen (tpy)	Total (tpy)
Plant Emissions	0.451	5.535	5.986
Storage Piles & Roads Emissions	0.738	1.007	1.745

Calculations of Emissions for Crushed Stone Processing Operations					
Client:	MERIDIAN CONSTRUCTION, LTD.				Date:
Facility:	220 TPH OMEGA J1065T JAW CRUSHER				3/11/2024
Permit No.:				JOB#	2401013

Annual Production Rate Calculations:				Annual Production (tpy)	Annual Production (cy/year)
INPUT FIELDS:		hrs/year	5000		
cy/hr	0	tons/hr	220		
		Transfer Points	6	1,100,000	0

Conversion rate "stone crushed" cy to ton = 1.4 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	1.188	2.970
Tertiary Crushing contr.	3-05-020-03	0.00120	0.264	0.660
Fines Crushing	3-05-020-05	0.03900	8.580	21.450
Fines Crushing contr.	3-05-020-05	0.00300	0.660	1.650
Screening	3-05-020-02,03	0.02500	5.500	13.750
Screening contr.	3-05-020-02,03	0.00220	0.484	1.210
Fines Screening	3-05-020-21	0.30000	66.000	165.000
Fines Screening contr.	3-05-020-21	0.00360	0.792	1.980
Conveyor Transfer Point	3-05-020-06	0.00300	0.660	1.650
Conv. Transfer Point contr.	3-05-020-06	0.00014	0.031	0.077
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:	6	lbs/hr per point	0.660	Total:	3.96
No of Points:	6	tons/year per poin	1.650	Total:	9.9

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	1,100,000		6.239	15.597
TOTAL TSP CONTROLLED (-70%)FOR STORAGE PILES				1.872	4.679
PM-10 UNCONTROLLED:		7.377	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	0.528	1.320
*Primary Crushing contr.	3-05-020-01	0.00054	0.119	0.297
*Secondary Crushing	3-05-020-02	0.00240	0.528	1.320
*Secondary Crushing contr.	3-05-020-02	0.00054	0.119	0.297
Tertiary Crushing	3-05-020-03	0.00240	0.528	1.320
Tertiary Crushing contr.	3-05-020-03	0.00054	0.119	0.297
Fines Crushing	3-05-020-05	0.01500	3.300	8.250
Fines Crushing contr.	3-05-020-05	0.00120	0.264	0.660
Screening	3-05-020-02,03	0.00870	1.914	4.785
Screening contr.	3-05-020-02,03	0.00074	0.163	0.407
Fines Screening	3-05-020-21	0.07200	15.840	39.600
Fines Screening contr.	3-05-020-21	0.00220	0.484	1.210
Conveyor Transfer Point	3-05-020-06	0.00110	0.242	0.605
Conv. Transfer Point contr.	3-05-020-06	4.60E-05	0.010	0.025
Wet Drilling - Unfrag.Stone	3-05-020-10	8.00E-05	0.018	0.044
Truck unload - Fragm.Stone	3-05-020-31	1.60E-05	0.004	0.009
Truck unload - conv.crushed	3-05-020-32	0.00010	0.022	0.055

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:	6	lbs/hr per point	0.242	Total:	**1.452**
No of Points:	6	tons/year per poin	0.605	Total:	**3.630**

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	1,100,000		**2.951**	**7.377**
PM-10 CONTROLLED (-70%) FOR STORAGE PILES				**0.885**	2.213

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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	0.158	0.396
Primary Crushing contr.	3-05-020-01	0.00016	0.036	0.089
Secondary Crushing*	3-05-020-02	0.00072	0.158	0.396
Secondary Crushing contr.	3-05-020-02	0.00016	0.036	0.089
Tertiary Crushing*	3-05-020-03	0.00072	0.158	0.396
Tertiary Crushing contr.	3-05-020-03	0.00016	0.036	0.089
Fines Crushing*	3-05-020-05	0.00450	0.990	2.475
Fines Crushing contr.	3-05-020-05	0.00036	0.079	0.198
Screening*	3-05-020-02,03	0.00261	0.574	1.436
Screening contr.	3-05-020-02,03	0.00022	0.049	0.122
Fines Screening*	3-05-020-21	0.02160	4.752	11.880
Fines Screening contr.*	3-05-020-21	0.00066	0.145	0.363
Conveyor Transfer Point*	3-05-020-06	0.00033	0.073	0.182
Conv. Transfer Point contr.	3-05-020-06	1.38E-05	0.003	0.008
Wet Drilling - Unfrag.Stone*	3-05-020-10	2.40E-05	0.005	0.013
Truck unload - Fragm.Stone*	3-05-020-31	4.80E-06	0.001	0.003
Truck unload - conv.crushed*	3-05-020-32	0.00003	0.007	0.017

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

Storage Piles

	Emission PM10	Emission PM2.5	
lbs/hour	2.951	**0.885**	(PM10 emissions x 0.3)
tons/year	7.377	**2.213**	(PM10 emissions x 0.3)

Un-Controlled Emission Calculations for multiple Transfer Points:

No of Points:	6	lbs/hr per point	7.26E-02	Total:	**0.436**
No of Points:	6	tons/year per point	1.82E-01	Total:	**1.089**

Calculations of PM30 (TSP) Emissions for Unpaved Roads				
Client:	MERIDIAN CONSTRUCTION, LTD.			
Facility:	220 TPH OMEGA J1065T JAW CTRUSHER			
Date:	3/11/2024	PERMIT NO.:	JOB #	2401013

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

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)*	**175**	**PM-30**	**3.096**

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
220	5000	21	0.1		**5238.1**

Uncontrolled PM30 in tons per year for unpaved roads:	**8.107**
Controlled PM30 (tpy) for unpaved roads (-70%):	**2.432**
Uncontrolled PM30 in lbs/hr	**3.243**
Controlled PM30 in lbs/hr	**0.973**

*** Station: (514754) Koloa Mill 937, 1949 - 1963**

Calculations of PM10 Emissions for Unpaved Roads				
Client:	**MERIDIAN CONSTRUCTION, LTD.**			
Facility:	**220 TPH OMEGA J1065T JAW CRUSHER**			
Date:	3/11/2024	PERMIT NO.:	JOB #	2401013

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

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)*	**175**	**PM-10**	**0.948**

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**
220	5000	21	0.1		**5238.1**

Uncontrolled PM10 in tons per year for unpaved roads:	**2.482**
Controlled PM10 (tpy) for unpaved roads (-70%):	**0.745**
Uncontrolled PM10 in lbs/hr	**0.993**
Controlled PM10 in lbs/hr	**0.298**

*** Station: (514754) Koloa Mill 937, 1949 - 1963**

Calculations of PM2.5 Emissions for Unpaved Roads				
Client:	**MERIDIAN CONSTRUCTION, LTD.**			
Facility:	**220 TPH OMEGA J1065T JAW CRUSHER**			
Date:	3/11/2024	PERMIT NO.:	JOB #	2401013

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

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)*	**175**	**PM2.5**	**0.095**

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**
220	5000	21	0.1		**5238.1**

*Note: Hours are for calculation purposes only

Uncontrolled PM2.5 in tons per year for unpaved roads:	**0.248**
Controlled PM2.5 (tpy) for unpaved roads (-70%):	**0.074**
Uncontrolled PM2.5 in lbs/hr	**0.099**
Controlled PM2.5 in lbs/hr	**0.030**

*** Station: (514754) Koloa Mill 937, 1949 - 1963**

Calculations of Emissions for Crushed Stone Processing Operations					
Client:	MERIDIAN CONSTRUCTION, LTD.				Date:
Facility:	300 TPH BARFORD SR124 DOUBLE DECK SCREEN				2/6/2024
Permit No.:				JOB#	2401013
*Note: Hours are for calculation purposes only.					
Annual Production Rate Calculations:				Annual Production (tpy)	Annual Production (cy/year)
INPUT FIELDS:		hrs/year*	5000		
cy/hr	0	tons/hr	300		
		Transfer Points	9	1,500,000	0

Conversion rate "stone crushed" cy to ton = 1.4 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	1.620	4.050
Tertiary Crushing contr.	3-05-020-03	0.00120	0.360	0.900
Fines Crushing	3-05-020-05	0.03900	11.700	29.250
Fines Crushing contr.	3-05-020-05	0.00300	0.900	2.250
Screening	3-05-020-02,03	0.02500	7.500	18.750
Screening contr.	3-05-020-02,03	0.00220	0.660	1.650
Fines Screening	3-05-020-21	0.30000	90.000	225.000
Fines Screening contr.	3-05-020-21	0.00360	1.080	2.700
Conveyor Transfer Point	3-05-020-06	0.00300	0.900	2.250
Conv. Transfer Point contr.	3-05-020-06	0.00014	0.042	0.105
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:	9	lbs/hr per point	0.900	Total:	8.1
No of Points:	9	tons/year per poin	2.250	Total:	20.25

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(dimensionles				Hilo	7.2 mph
U=mean wind speed (mph), M=material moisture content				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/ton:		Ann.Prod.		Total TSP (lb/hr)	Total TSP (tpy)
PM-10	0.013	(tpy)			
TSP	0.028	1,500,000		8.507	21.269
TOTAL TSP CONTROLLED (-70%)FOR STORAGE PILES				2.552	6.381
PM-10 UNCONTROLLED:		10.060	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	0.720	1.800
*Primary Crushing contr.	3-05-020-01	0.00054	0.162	0.405
*Secondary Crushing	3-05-020-02	0.00240	0.720	1.800
*Secondary Crushing contr.	3-05-020-02	0.00054	0.162	0.405
Tertiary Crushing	3-05-020-03	0.00240	0.720	1.800
Tertiary Crushing contr.	3-05-020-03	0.00054	0.162	0.405
Fines Crushing	3-05-020-05	0.01500	4.500	11.250
Fines Crushing contr.	3-05-020-05	0.00120	0.360	0.900
Screening	3-05-020-02,03	0.00870	2.610	6.525
Screening contr.	3-05-020-02,03	0.00074	0.222	0.555
Fines Screening	3-05-020-21	0.07200	21.600	54.000
Fines Screening contr.	3-05-020-21	0.00220	0.660	1.650
Conveyor Transfer Point	3-05-020-06	0.00110	0.330	0.825
Conv. Transfer Point contr.	3-05-020-06	4.60E-05	0.014	0.035
Wet Drilling - Unfrag.Stone	3-05-020-10	8.00E-05	0.024	0.060
Truck unload - Fragm.Stone	3-05-020-31	1.60E-05	0.005	0.012
Truck unload - conv.crushed	3-05-020-32	0.00010	0.030	0.075

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:	9	lbs/hr per point	0.330	Total:	**2.970**
No of Points:	9	tons/year per poin	0.825	Total:	**7.425**

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

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 PM-10 (lb/hr)	Total PM-10 (tpy)
PM-10	0.013	(tpy)			
TSP	0.028	1,500,000		4.024	10.060
PM-10 CONTROLLED (-70%) FOR STORAGE PILES				1.207	3.018

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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	0.216	0.540
Primary Crushing contr.	3-05-020-01	0.00016	0.049	0.122
Secondary Crushing*	3-05-020-02	0.00072	0.216	0.540
Secondary Crushing contr.	3-05-020-02	0.00016	0.049	0.122
Tertiary Crushing*	3-05-020-03	0.00072	0.216	0.540
Tertiary Crushing contr.	3-05-020-03	0.00016	0.049	0.122
Fines Crushing*	3-05-020-05	0.00450	1.350	3.375
Fines Crushing contr.	3-05-020-05	0.00036	0.108	0.270
Screening*	3-05-020-02,03	0.00261	0.783	1.958
Screening contr.	3-05-020-02,03	0.00022	0.067	0.167
Fines Screening*	3-05-020-21	0.02160	6.480	16.200
Fines Screening contr.*	3-05-020-21	0.00066	0.198	0.495
Conveyor Transfer Point*	3-05-020-06	0.00033	0.099	0.248
Conv. Transfer Point contr.	3-05-020-06	1.38E-05	0.004	0.010
Wet Drilling - Unfrag.Stone*	3-05-020-10	2.40E-05	0.007	0.018
Truck unload - Fragm.Stone*	3-05-020-31	4.80E-06	0.001	0.004
Truck unload - conv.crushed*	3-05-020-32	0.00003	0.009	0.023

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

Storage Piles

	Emission PM10	Emission PM2.5	
lbs/hour	4.024	**1.207**	(PM10 emissions x 0.3)
tons/year	10.060	**3.018**	(PM10 emissions x 0.3)

Un-Controlled Emission Calculations for multiple Transfer Points:

No of Points:	9	lbs/hr per point	9.90E-02	Total:	**0.891**
No of Points:	9	tons/year per point	2.48E-01	Total:	**2.228**

Calculations of PM30 (TSP) Emissions for Unpaved Roads					
Client:	**MERIDIAN CONSTRUCTION, LTD.**				
Facility:	**300 TPH BARFORD SR124 DOUBLE DECK SCREEN**				
Date:	2/6/2024	PERMIT NO.	**0586-01-CT**	JOB #	2401013

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

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)*	**175**	**PM-30**	**3.096**

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**
300	5000	21	0.1		**7142.9**

Uncontrolled PM30 in tons per year for unpaved roads:	**11.055**
Controlled PM30 (tpy) for unpaved roads (-70%):	**3.317**
Uncontrolled PM30 in lbs/hr	**4.422**
Controlled PM30 in lbs/hr	**1.327**

*** Station: (514754) Koloa Mill 937, 1949 - 1963**

Calculations of PM10 Emissions for Unpaved Roads					
Client:	**MERIDIAN CONSTRUCTION, LTD.**				
Facility:	**300 TPH BARFORD SR124 DOUBLE DECK SCREEN**				
Date:	2/6/2024	PERMIT NO.	**0586-01-CT**	JOB #	2401013

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

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)*	**175**	**PM-10**	**0.948**

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**
300	5000	21	0.1		**7142.9**

Uncontrolled PM10 in tons per year for unpaved roads:	**3.384**
Controlled PM10 (tpy) for unpaved roads (-70%):	**1.015**
Uncontrolled PM10 in lbs/hr	**1.354**
Controlled PM10 in lbs/hr	**0.406**

*** Station: (514754) Koloa Mill 937, 1949 - 1963**

Calculations of PM2.5 Emissions for Unpaved Roads					
Client:	**MERIDIAN CONSTRUCTION, LTD.**				
Facility:	**300 TPH BARFORD SR124 DOUBLE DECK SCREEN**				
Date:	2/6/2024	PERMIT NO.	**0586-01-CT**	JOB #	2401013

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

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)*	**175**	**PM2.5**	**0.095**

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**
300	5000	21	0.1		**7142.9**

*Note: Hours are for calculation purposes only

Uncontrolled PM2.5 in tons per year for unpaved roads:	**0.338**
Controlled PM2.5 (tpy) for unpaved roads (-70%):	**0.102**
Uncontrolled PM2.5 in lbs/hr	**0.135**
Controlled PM2.5 in lbs/hr	**0.041**

*** Station: (514754) Koloa Mill 937, 1949 - 1963**

KOLOA MILL 937, HAWAII

Period of Record General Climate Summary - Precipitation

Station:(514754) KOLOA MILL 937

From Year=1949 To Year=1963

	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	19.42	1957	1.65	1961	10.04	18/1957	13	8	3	2	0.0	0.0	1950
February	3.89	7.48	1957	1.38	1960	3.50	06/1950	13	7	2	1	0.0	0.0	1950
March	5.23	11.57	1951	0.55	1957	5.61	01/1954	14	8	3	2	0.0	0.0	1950
April	4.17	11.16	1963	1.26	1958	3.30	02/1956	13	7	2	1	0.0	0.0	1950
May	2.28	6.15	1961	0.73	1951	1.37	13/1960	15	6	1	0	0.0	0.0	1950
June	1.88	4.01	1961	0.84	1951	0.77	29/1957	14	6	1	0	0.0	0.0	1950
July	2.70	5.89	1958	1.25	1955	1.30	12/1954	18	8	1	0	0.0	0.0	1950
August	3.74	11.79	1959	1.15	1952	1.55	06/1951	18	9	1	0	0.0	0.0	1950
September	2.80	5.81	1960	0.66	1953	3.61	30/1960	14	6	1	0	0.0	0.0	1950
October	3.79	7.74	1951	0.93	1959	3.74	29/1951	15	9	2	1	0.0	0.0	1949
November	5.18	16.72	1955	2.09	1962	9.00	09/1955	15	9	2	1	0.0	0.0	1949
December	5.69	14.25	1951	1.95	1962	5.96	19/1951	13	9	3	1	0.0	0.0	1949

Annual	48.06	65.35	1951	27.59	1953	10.04	19570118	175	91	22	9	0.0	0.0	1950
Winter	16.28	31.58	1957	8.17	1960	10.04	19570118	40	23	8	4	0.0	0.0	1950
Spring	11.69	17.70	1962	4.08	1957	5.61	19540301	42	21	6	3	0.0	0.0	1950
Summer	8.32	14.81	1959	4.07	1960	1.55	19510806	50	23	3	1	0.0	0.0	1950
Fall	11.77	26.54	1955	4.33	1953	9.00	19551109	44	24	5	2	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

J1065T

ADVANCED DATA SHEET

sales@machinerypartner.com www.machinerypartner.com

DATA SHEET
J1065T

MACHINERY PARTNER

DETAILS

Model Name	J1065T
Model Title	40" × 26" Tracked Mobile Jaw Crusher
Category	Crushers
Type	Jaw
Brand	Omega
Description	The Omega J1065T is a cost-effective, high-output, all-electric drive jaw crusher. It is designed for quarry, mining & recycling applications and it is perfect as a primary jaw crusher in a plant set-up. The Omega J1065T is a dual-powered diesel/electric crusher with DEUTZ power pack capable of crushing hard rock and aggregate at only 3 gal/hr. This high-performance, Irish-built crushing plant comes with a simple toggle tensioning system, an overband magnet to remove metal and tracks making it mobile. Perfect for crushing virgin rock, concrete, stone, and construction & demolition waste at up to 220 tph, this machine can be used by itself or as a primary crusher in a plant set-up alongside a screener.

PROCESSED MATERIALS

- Rock
- Concrete
- Demolition Waste
- Asphalt
- Stone
- Brick
- Cement
- Virgin Stone
- Gravel

omegacrusher.com

Omega CRUSHING & SCREENING **J1065T** TRACKED

Feeder

Length	11' 10" / 3600 mm
Width	37" / 940 mm
Motor type	2 x 5.5 kW
Grizzly type	Stepped 40 - 75 with optional aperture

Hopper

Type	Hydraulic folding
Length	13' / 3960 mm
Height	31" / 790 mm
Capacity	3.8 m³
Hardox lined	8 mm

Crusher

Type	Omega 1065 single toggle
Opening size	40" x 26" / 1000 mm x 650 mm
Max feed	21" / 530 mm
CSS Range	2"- 5" / 50 mm - 130 mm
Motor type	90 kW

Tracks

Type	Hydraulic drive
Shoe size	15 ½" / 400 mm
Drive	Proportional hydraulic
Control	Radio / Umbilical

Engine

Type	Deutz TCD7.8L6 Stage V
Power output	220 kVA

Product conveyor

Discharge height	10' 2" / 3090 mm
Length	32' 10" / 10,000 mm
Belt width	33.5" / 850 mm
Drive type	Motorised pulley, 7 kW

Fines conveyor

Discharge height	85" / 2150 mm
Length	11' 10" / 3600 mm
Belt width	20" / 500 mm
Drive type	2.2 kW motorised pulley

* Details may change on final specification

Contact us:

Unit 10a, Enterprise Park, Drumquin Rd, Castlederg, Co. Tyrone, N. Ireland, BT81 7PX

T. +44 28 8167 8571 E. info@omegacrusher.com

Omega CRUSHING & SCREENING **J1065T** TRACKED

DUAL POWER

EASY TO OPERATE

EFFICIENT ELECTRIC DRIVE

HIGH OUTPUT CAPACITY

eco drive

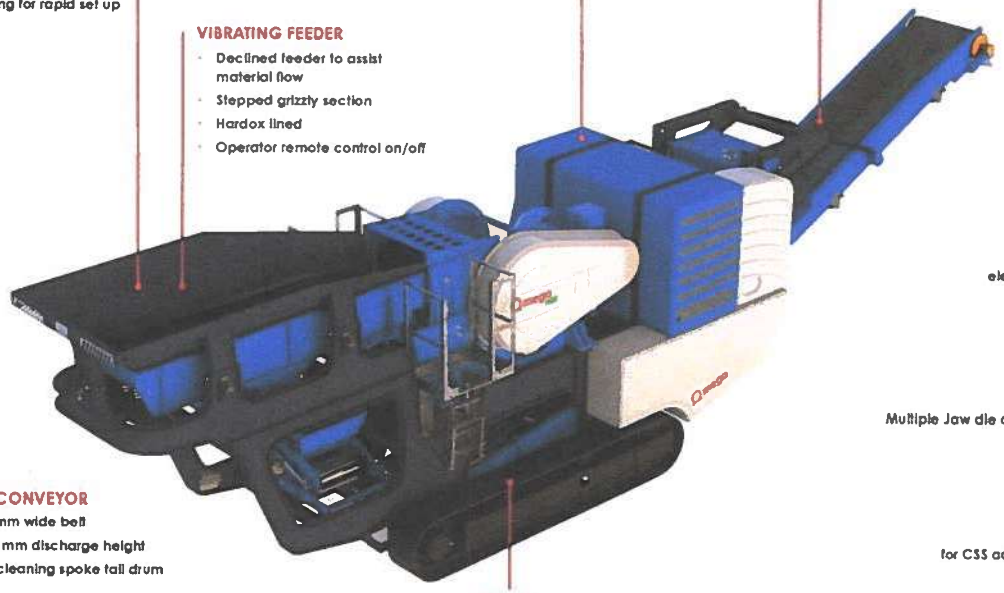
Omega CRUSHING & SCREENING **J1065T** TRACKED

HOPPER
- Hardox construction
- 3.8 m³ capacity
- Hydraulic folding and locking for rapid set up

POWERPACK
- Emissions compliant
- Engine options
- High effecincy system
- Grid plug in option

DISCHARGE CONVEYOR
- Powerful motorised head drum pulley
- 850 mm wide belt
- Hydraulic raise and lower for rebar clearance
- Overband magnet
- Self-cleaning spoke tail drum

VIBRATING FEEDER
- Declined feeder to assist material flow
- Stepped grizzly section
- Hardox lined
- Operator remote control on/off



FINES CONVEYOR
- 500 mm wide belt
- 2150 mm discharge height
- Self-cleaning spoke tail drum

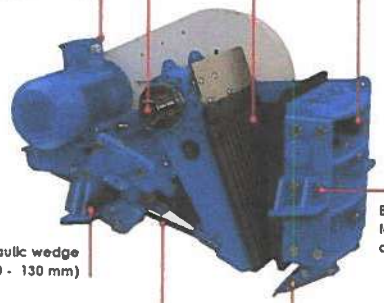
TRACKS
- Proportional hydraulic control
- 400 mm wide

Heavy duty shaft installed with premium bearings

Large 1000 mm x 650 mm feed opening

Weg motor electric drive via v-belt

Large Jaw ejector cylinder



Multiple Jaw die options

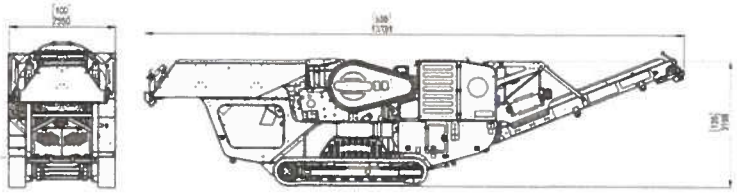
Bolted mainframe for strength and durability

Hydraulic wedge for CSS adjust (50 - 130 mm)

Draw-back system for simplicity

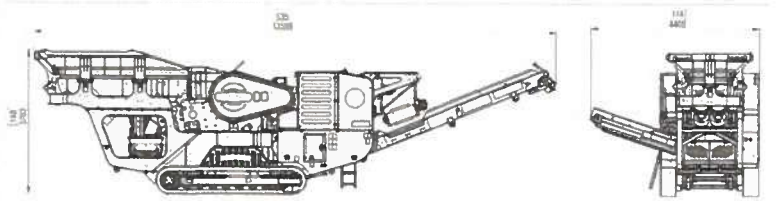
Optional deflector plate for recycling applications

TRANSPORT DIMENSIONS



H. 10' 6" / 3200 mm m **W.** 8' 4" / 2550 mm **L.** 44' 11" / 13,700 mm **WEIGHT.** 31,500 kg

WORKING DIMENSIONS



H. 12' 4" / 3760 mm **W.** 8' 4" / 2550 mm **W.** 14' 5" / 4410 mm **L.** 44' 8" / 13,615 mm **WEIGHT.** 31,500 kg

DEUTZ TCD 7.8

For mobile machinery ■ 160-260 kW / 214-348 hp at 1800-2200 min⁻¹/rpm ■ EU Stage IV and V / US EPA Tier 4

- Water-cooled 6-cylinder inline engine with turbocharging, charge air cooling and cooled external exhaust gas recirculation.
- Engine and exhaust aftertreatment (EAT) are optimised for highest total system efficiency and thus ensure lowest consumption and total operating cost.
- Consistent installation and connection dimensions of the engine facilitate the changeover of existing installations to the next stage of the emission laws. The size and design of the engines will remain identical in the change to Stage V due to a protected technology. No changes to the customer's device. A variant without EAT is available as an option for less regulated markets.
- The powerful DEUTZ Common Rail (DCR®) injection system and the electronic engine control (EMR) with intelligent link to the drive management ensure optimum engine performance at low fuel consumption.
- The engines meet the requirements of the EU Stage IV and US EPA Tier 4 with DVERT® selective catalytic reduction (SCR) and particulate filter (DPF). Through the use of the DPF they already comply with the EU Stage V emissions standard expected from 2019.*
- Best cold starting performance even under extreme conditions.
- Long oil change intervals and easy changing of the engine fluids reduce the running cost and increase the availability of the machinery.
- The extremely compact engine design and customer friendly accessories reduce the installation cost and increase the number of applications.
- 100% power take-off at flywheel and front end and additionally up to two PTO drives with a total torque of up to 395 Nm.

STAGE V certified

TECHNICAL DATA

Engine type		TCD 7.8 L6
No. of cylinders		6
Bore/stroke	mm | in	110/136 | 4,3/5,4
Displacement	l | cu in	7,8 | 476
Max. nominal speed	min^{-1} | rpm	2200

Engine type		TCD 7.8 L6
Power output as per ISO 14396 [1]	kW | hp	260 | 348
at speed	min^{-1} | rpm	2200
Max. torque	Nm | lb/ft	1400 | 1033
at speed	min^{-1} | rpm	1450
Minimum idling speed	min^{-1} | rpm	600
Specific fuel consumption [2]	g/kWh | lb/hph	192 | 0,32
Weight as per DIN 70020 Part 7A [3]	kg | lb	725 | 1598

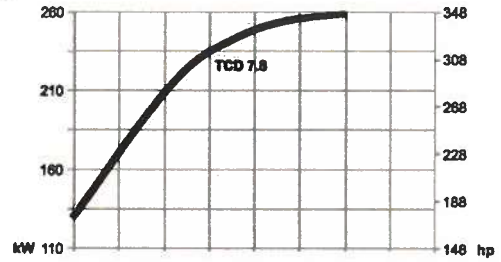
* Based on the proposal by the EU Commission COM (2014) 581 final from 25.09.2014
1) Power data without deduction of fan power
2) Best point consumption refers to diesel with a density of 0.835 kg/dm3 at 15°C.
3) Without starter/alternator, cooler and fluids but with flywheel and flywheel housing

The engine company. DEUTZ

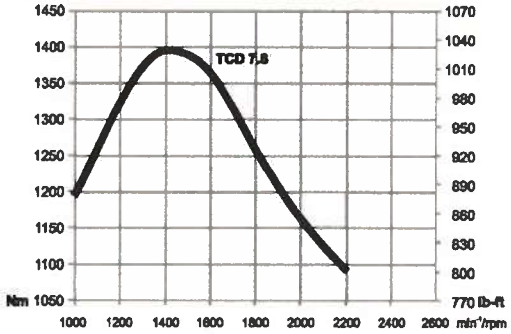
CHARACTERISTIC CURVES

TCD 7.8

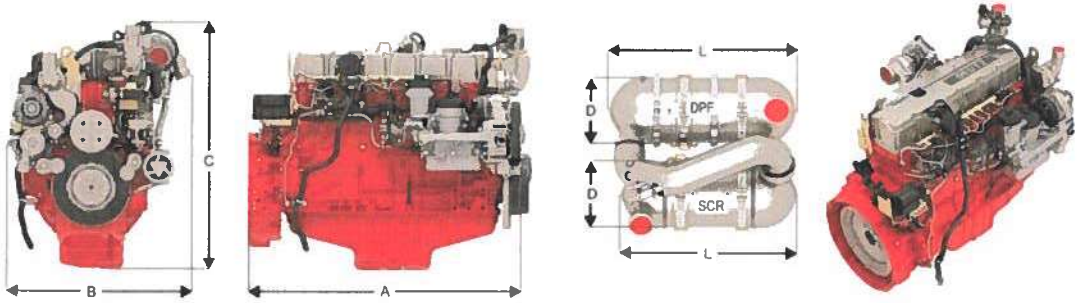
Power



Torque



DIMENSIONS



Engine type		A	B	C	SCR D	SCR L	DPF D	DPF L	DVERT® EAT SCR	DVERT® EAT DPF
TCD 7.8	mm | in	1214 | 47,8	793 | 31,2	1046 | 41,2	318 | 12,5	816 | 32,1	318 | 12,5	775 | 30,5	■	■

■ Standard

For EU Step IV / EPA Tier 4 and for EU Stage V.
All connection variants are available either in 0° or 90° positions for inlet and outlet flanges.
Note: The engine dimensions and weights vary depending on the scope of delivery.
For more information please contact the DEUTZ AG or the responsible sales partner.

Order no. 0031 2274 / 02 / 2016 / MC-M

DEUTZ AG
Ottostraße 1
51149 Cologne, Germany
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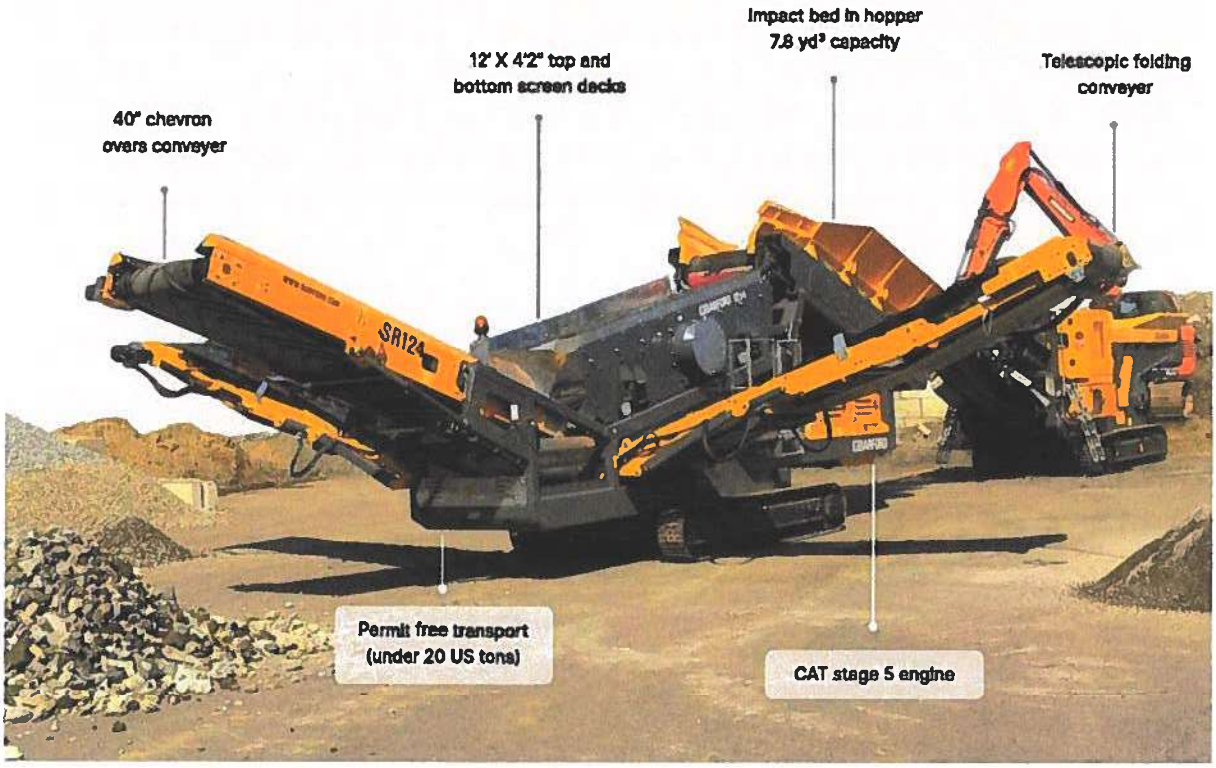
Telefax: +49 (0) 221 822-3525
E-Mail: info@deutz.com
www.facebook.com/deutzofficial
www.deutz.com

The engine company. DEUTZ

BARFORD | SR124

MACHINERY PARTNER

12' X 4'2" Three Way Screener



Compact, robust and made to move.

The SR 124 is the largest "containerisable" scalper on the market with a 12' x 4' top and bottom deck and its robust design putting it in a unique category of high production compact units.

Designed to work before a 30T crusher, after a 50T crusher or as a standalone unit on soil, sand & gravel, coal, over-burden or demolition materials, the SR transcends the "compact" label.

Key specs

Max TPH	300
Engine	74hp CAT Stage 5
Screen deck	12' 4" X 4' 2"
Weight	38,600 lbs

Have questions? Call us 617-925-9549

or visit www.machinerypartner.com

BARFORD | SR124

MACHINERY PARTNER

12' X 4'2" Three Way Screener

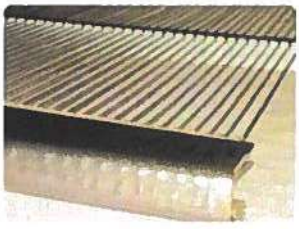
Turn one material into three

This versatile "scalping" screen can be used in a range of applications, from topsoil to concrete recycling — allowing you to turn one mixed material into **three different sized piles.** Machinery Partner customers are using the Barford SR124 to make and sell road base, paver base, sand, 1.5" minus stone and much more.

Customize your screen decks

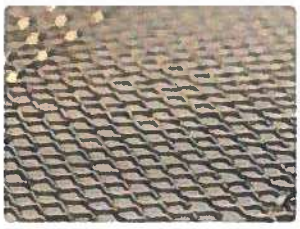
Punch plate top deck

For longer wear in large aggregate applications



Piano wire bottom deck

Screen down to very fine sand, soil, or concrete dust



Anti-clogging mesh

Prevent binding with damp soils and sticky materials

Have questions? Call us 617-925-9549

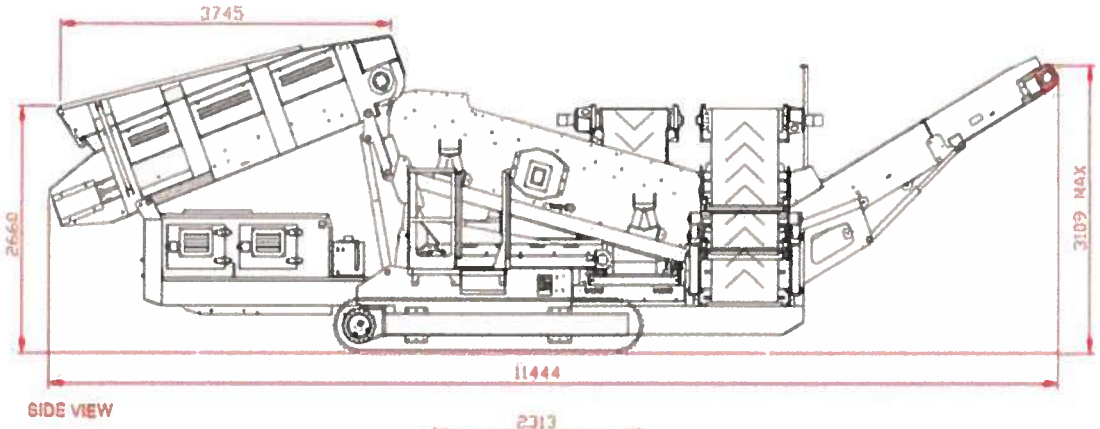
or visit www.machinerypartner.com

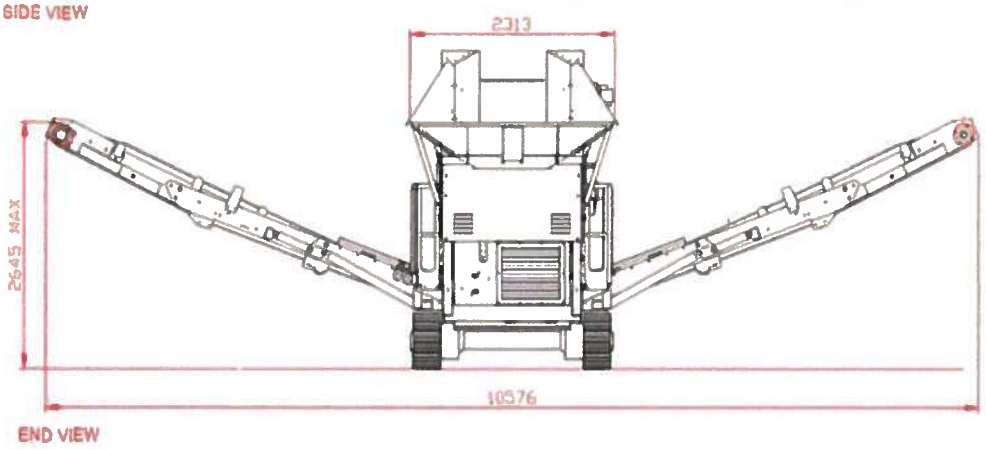
BARFORD | SR124

MACHINERY PARTNER

12' X 4'2" Three Way Screener

Working dimensions





Cat® C4.4 DIESEL GENERATOR SETS

Standby & Prime: 60 Hz, 480V (3Ph) & 240V (1Ph)

Engine Model	Cat® C4.4 In-line 4, 4-cycle diesel
Bore x Stroke	105mm x 127mm (4.1in x 5.0 in)
Displacement	4.4 L (269 in³)
Compression Ratio	18.2:1
Aspiration	Turbocharged
Fuel Injection System	Common Rail

Standby	Prime	Performance Strategy
50 ekW	**45 ekW**	**EPA TIER III**

PACKAGE PERFORMANCE

Performance	Standby		Prime	
	3-Phase	1-Phase	3-Phase	1-Phase
Genset power rating	63 kVA	50 kVA	50 kVA	45 kVA
Genset power rating with fan @ 0.8 power factor	50 ekW	50 ekW	45 ekW	45 ekW
Performance number	P3454A-00	P3454A-00	P3454B-00	P3454B-00
Fuel Consumption				
100% Load with fan	16.8 L/hr, 4.4 gal/hr	16.4 L/hr, 4.3 g/hr	16.8 L/hr, 4.4 gal/hr	14.7 L/hr, 3.9 g/hr
75% Load with fan	12.8 L/hr, 3.4 gal/hr	12.4 L/hr, 3.3 g/hr	12.8 L/hr, 3.4 gal/hr	11.3 L/hr, 3.0 g/hr
50% Load with fan	9.3 L/hr, 2.5 gal/hr	9.0 L/hr, 2.4 g/hr	9.3 L/hr, 2.5 gal/hr	8.3 L/hr, 2.2 g/hr
Cooling System[1]				
Radiator air flow restriction (system)	0.12 kPa 0.48 in. water		0.12 kPa, 0.48 in. water	
Engine coolant capacity	7.0 L, 1.8 gal		7.0 L, 1.8 gal	
Radiator coolant capacity	9.5 L, 2.5 gal		9.5 L, 2.5 gal	
Total coolant capacity	16.5 L, 4.3 gal		16.5 L, 4.30 gal	
Inlet Air				
Combustion air inlet flow rate	5.3 m³/min, 187.2 cfm	5.3 m³/min, 187.2 cm	5.2 m³/min, 183.6 cfm	5.2 m³/min, 183.6 cm
Max. allowable combustion air inlet temp	45°C, 113°F			
Exhaust System				
Exhaust stack gas temperature	571°C, 1060°F	571°C, 1060°F	532°C, 990°F	532°C, 990°F
Exhaust gas flow rate	13.7 m³/min, 483.8 cfm	13.7 m³/min, 484 cfm	12.8 m³/min, 452.0 cfm	12.8 m³/min, 452 cfm
Exhaust system backpressure (maximum allowable)	15.0 kPa, 60.2 in. water	15.0 kPa, 60.2 in water	15.0 kPa, 60.2 in. water	15.0 kPa, 60.2 in water
Exhaust flange size (internal diameter)	63.5 mm, 2.5 in	63.5 mm, 2.5 in	63.5 mm, 2.5 in	63.5 mm, 2.5 in
Heat Rejection				
Heat rejection to Coolant (total)	46.1 kW, 2622 Btu/min	46.1 kw, 2622 Btu/min	46.1 kW, 2622 Btu/min	42.3 kw, 2406 Btu/min
Heat rejection to Exhaust (total)	66.9 kW, 3805 Btu/min	66.9 kw, 3805 Btu/min	66.9 kW, 3805 Btu/min	59.3 kw, 3372 Btu/min
Heat rejection to Atmosphere from Engine	14.9 kW, 847.3 Btu/min	14.9 kw, 847.3 Btu/min	14.9 kW, 847.3 Btu/min	12.5 kw, 710.9 Btu/min
Heat rejection from Alternator	5.2 kW, 295.7 Btu/min	5.1 kw, 290.0 Btu/min	5.2 kW, 295.7 Btu/min	4.3 kw, 244.5 Btu/min
Lube System				
Sump refill with filter	8.4 L, 2.2 gal	8.4 L, 2.2 gal	8.4 L, 2.2 gal	8.4 L, 2.2 gal

Cat® C4.4 DIESEL GENERATOR SETS

CAT®

Emissions (Nominal)[2]	Standby		Prime	
	3-Phase	1-Phase	3-Phase	1-Phase
NOx + HC	4.42 g/kW-hr	4.42 g/kWhr	4.42 g/kW-hr	4.42 g/kWhr
CO	1.02 g/kW-hr	1.02 g/kWhr	1.02 g/kW-hr	1.02 g/kWhr
PM	0.26 g/kW-hr	0.18 g/kWhr	0.26 g/kW-hr	0.18 g/kWhr
Alternator[3]				
Voltages	480V	240V	480V	240V
Motor starting capability @ 30% Voltage Dip	131 skVA	114 skVA	131 skVA	114 skVA
Frame Size	LC1514N	LCB1514P	LC1514N	LCB1514P
Excitation	Self Excited	Self Excited	Self Excited	Self Excited
Temperature Rise	130°C, 234°F	130°C, 234°F	105°C, 189°F	105°C, 189°F

DEFINITIONS AND CONDITIONS

[1] For ambient and altitude capabilities consult your Cat dealer. Air flow restriction (system) is added to existing restriction from factory.

[2] The nominal emissions data shown is subject to instrumentation, measurement, facility and engine to engine variations. Emissions data is based on 100% Prime load. This information should not be used for permitting purposes and is subject to change without notice. Contact your Caterpillar dealer for further details.

[3] Generator temperature rise is based on a 40°C (104°F) ambient per NEMA MG1-32

APPLICABLE CODES AND STANDARDS:

AS1359, CSA C22.2 No 100-04, UL142, UL489, UL601, UL869, UL2200, NFPA 37, NFPA 70, NFPA 99, NFPA 110, IBC,IEC60034-1, ISO3046, ISO8528, NEMA MG 1-22, NEMA MG 1-33, 72/23/EEC, 98/37/EC, 2004/108/EC.

PRIME: Output available with varying load for an unlimited time. Average power output is 70% of the prime power rating.Typical peak demand is 100% of prime rated ekW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 hours per year.

STANDBY: Output available with varying load for the duration of the interruption of the normal source power. Average power output is 70% of the standby power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 standard conditions.

Fuel Rates are based on fuel oil to specification EPA 2D 89.330-96 with a density of 0.845 – 0.850 kg/L (7.052 – 7.094 lbs/U.S. gal.) @ 15°C (59°F) and fuel inlet temperature 40°C (104°F). Additional ratings may be available for specific customer requirements, contact your Cat representative for details.

LEHE1563-00 (03/18)

BUILT FOR IT.

APPENDIX D

BACT Analysis

BACT Analysis for Fugitive Emissions Crusher and Screen

A. Facility Background

This BACT Analysis is conducted for the Omega J1065T Jaw Crusher and the Barford SR124 double deck Screen owned and operated by Meridian Pacific Ltd.
The initial location will be at 5425 Pau A Laka Street, Koloa, Kauai, HI 96756.

The pollutants of concern are fugitive PM(TSP) and PM10 from the crusher and the screen.
The crusher and the screen are self-propelled. The diesel engines powering the equipment are therefore exempt pursuant to HAR 11-60.1-82(d)(4), which exempts internal combustion engines propelling mobile sources.

The Source Classification Code (SCC) for the facility is 1442 (Construction Sand and Gravel)

B. Potential to Emit

Total Controlled Fugitive Emissions for Crusher and Screen

(Emissions are based on AP42, table 11.19.2-2, 8/04 for plants and 13.2.2 11/06 for unpaved roads)

Particulate Matter (TSP):

Activity	Crusher (tpy)	Screen (tpy)	Total (tpy)
Plant Emissions	3.382	73.597	76.979
Storage Piles & Roads Emissions	7.111	9.697	16.808

Particulate Matter (PM10):

Activity	Crusher (tpy)	Screen (tpy)	Total (tpy)
Plant Emissions	1.501	18.450	19.951
Storage Piles & Roads Emissions	2.958	4.033	6.991

Particulate Matter (PM2.5):

Activity	Crusher (tpy)	Screen (tpy)	Total (tpy)
Plant Emissions	0.451	5.535	5.986
Storage Piles & Roads Emissions	0.738	1.007	1.745

C. Summary of Existing BACT Determination

The pollutants of concern are fugitive PM and PM10.
The Omega J1065T jaw crusher is equipped with a water spray system for dust control. The Barford SR124 double deck Screen is not equipped with any water spray system. Dust control is achieved through keeping the material damp. Screeners cannot handle material that is too wet since it will clog the screens. Material that is fed to the screen from the crusher is usually damp since it has been wetted in the crusher. Other material is wetted by the operator if necessary.

Crusher water spray systems and keeping material damp for screening are the standard fugitive dust pollution control for crushers and screeners. Similar sources feature the same kind of dust control.

There are no other control options for portable self-propelled crushers and screeners.

It is therefore our opinion that this plant meets BACT requirements.