

**PROPOSED**

Issuance Date

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**  
(xxxx xxxx xxxx xxxx xxxx)

11-xxxE CAB  
File No. 0381-05

Mr. Darryl Leer  
President  
TRI-L Construction, Inc.  
P.O. Box 898  
Kaunakakai, Hawaii 96748

Dear Mr. Leer:

**Subject: Temporary Covered Source Permit (CSP) No. 0381-02-CT  
Minor Modification Application No. 0381-05  
TRI-L Construction, Inc.  
231.5 TPH Stone Quarrying and Processing Plant and Portable  
Screening Plant  
Located at: Various Temporary Sites, State of Hawaii  
Initial Location: #10 Manawainui Bridge, Hoolehua, Molokai  
Date of Expiration: September 22, 2013**

The subject Temporary Covered Source Permit is issued in accordance with Hawaii Administrative Rules, Title 11, Chapter 60.1. The issuance of this permit is based on the plans and specifications that you submitted as part of your minor modification application received on June 15, 2011. This Temporary Covered Source Permit shall supersede CSP No. 0381-02-CT issued on September 23, 2008 in its entirety. A receipt for the application filing fee of \$200.00 is enclosed.

The Temporary Covered Source Permit is issued subject to the conditions and requirements set forth in the following attachments:

- Attachment I: Standard Conditions
- Attachment II: Special Conditions
- 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: Stone Quarrying and Processing Plant
- Annual Emissions Report Form: Portable Screening Plant
- Monitoring/Annual Emissions Report Form: Operating Hours/Fuel Certification and Consumption

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Monitoring Report Form: Opacity Exceedances  
Visible Emissions Form Requirements with the following enclosures:

- a. Visible Emissions Form
- b. The Ringelmann Chart

Change of Location Request for a Temporary Source

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 Hawaii Department of Health, 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.

Sincerely,

STUART YAMADA, P.E., CHIEF  
Environmental Management Division

DL:smk  
Enclosures

c: Blake Shiigi, EHS - Maui  
CAB Monitoring Section

**ATTACHMENT I: STANDARD CONDITIONS  
TEMPORARY COVERED SOURCE PERMIT NO. 0381-02-CT**

**Issuance Date:**

**Expiration Date: September 22, 2013**

This permit is granted in accordance with the Hawaii Administrative Rules (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)<sup>2</sup>
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 of Health, except as provided in HAR, Section 11-60.1-91.  
  
(Auth.: HAR §11-60.1-7; SIP §11-60-9)<sup>2</sup>
4. A request for transfer from person to person shall be made on forms furnished by the Department of Health.  
  
(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 of Health 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 Covered Source Permit. There shall be no deviation unless additional or revised plans are submitted to and approved by the Department of Health, 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 of Health and U.S. EPA, Region 9, in writing of the following dates:
- 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;
  - The **actual date of construction commencement** within fifteen (15) days after such date; and
  - 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 of Health 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 of Health copies of records required to be kept by the permittee. For information claimed to be confidential, the Director of Health may require the permittee to furnish such records not only to the Department of Health 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 of Health 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:
- Identification of the specific equipment to be taken out of service, as well as its location and permit number;
  - The expected length of time that the air pollution control equipment will be out of service;
  - The nature and quantity of emissions of air pollutants likely to be emitted during the shutdown period;
  - Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; and
  - 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)<sup>2</sup>

17. **Except for emergencies which result in noncompliance with any technology-based emission limitation in accordance with HAR, Section 11-60.1-16.5, in 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 Health 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)<sup>2</sup>

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 of Health 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 of Health.

(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 of Health, 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 of Health by a responsible official of the source.

(Auth.: HAR §11-60.1-8; SIP §11-60-10)<sup>2</sup>

25. Each permit renewal application shall be submitted to the Department of Health 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))<sup>1</sup>

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 of Health 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:**

**Clean Air Branch  
Environmental Management Division  
Hawaii Department of Health  
919 Ala Moana Boulevard, Room 203  
Honolulu, HI 96814**

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

**Chief  
Permits Office, (Attention: Air-3)  
Air Division  
U.S. Environmental Protection Agency  
Region 9  
75 Hawthorne Street  
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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<sup>1</sup>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.

<sup>2</sup>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.

## PROPOSED

### ATTACHMENT II: SPECIAL CONDITIONS TEMPORARY COVERED SOURCE PERMIT NO. 0381-02-CT

**Issuance Date:**

**Expiration Date:** September 22, 2013

In addition to the Standard Conditions of the Temporary Covered Source Permit, the following emissions unit is subject to the Special Conditions listed below:

#### **Section A. Equipment Description**

1. The 231.5 TPH Stone Quarrying and Processing Plant encompasses the following equipment and associated appurtenances:
  - a. One (1) 231.5 TPH Thunder Bird Industries primary jaw crusher (model no. 3625 JOHCJ, serial no. 630);
  - b. One (1) 100 TPH Canica secondary crusher (model no. 85, serial no. 85114-88);
  - c. One (1) Hewitt Robins 3-deck screen (serial no. VT 5352);
  - d. One (1) 252 HP Cummins diesel engine (model no. 6CTA8.3-G, serial no. 44328972);
  - e. One (1) 1085 HP Cummins diesel engine generator (model no. KTA38-G2, serial no. I900349504);
  - f. One (1) 200 HP Eljay RC 54 cone crusher (model no. 1200, serial no. 41C0386);
  - g. One (1) Cedarapids screen (model no. M4814E, serial no. 28034-28012);
  - h. Various belt conveyors; and
  - i. Waterspray system.

(Auth.: HAR §11-60.1-3)

2. The Portable Screening Plant encompasses the following equipment and associated appurtenances:
  - a. One (1) Construction Equipment Company Roadrunner Portable Screener with 67 HP Deutz diesel engine (exempt);
  - b. Various conveyors; and
  - c. Waterspray system.

(Auth.: HAR §11-60.1-3)

3. An identification tag or nameplate shall be displayed on the jaw crusher, secondary crusher, cone crusher, screens, 252 HP diesel engine, and 1085 HP diesel engine generator listed above to show model no., serial no., and manufacturer. The identification tag or nameplate shall be permanently attached to the equipment in a conspicuous location.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

#### **Section B. Applicable Federal Regulations**

1. The stone quarrying and processing plant, excluding the 252 HP diesel engine, 1085 HP diesel engine generator and Cedarapids screen, is 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)<sup>1</sup>

2. The permittee shall comply with all of the applicable provisions of these standards, including all emission limits, notification, testing, monitoring, and reporting 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)<sup>1</sup>

### **Section C. Operational Limitations**

#### 1. Operating Hour Limitation

- a. The total operating hours of the primary jaw crusher, including the 252 HP diesel engine, shall not exceed 1,400 hours of operation in any rolling twelve (12) month period. The permittee shall not operate the primary jaw crusher unless its respective non-resetting hour meter is recording its hours of operation.
- b. The total operating hours of the stone quarrying and processing plant, excluding the primary jaw crusher, and including the 1085 HP diesel engine generator, shall not exceed 1,400 hours of operation in any rolling twelve (12) month period. The permittee shall not operate the stone quarrying and processing plant unless its respective non-resetting hour meter is recording its hours of operation.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

#### 2. Fuel Specifications

The 252 HP diesel engine and 1085 HP diesel engine generator shall be fired only on diesel no. 2 with a maximum sulfur content not to exceed 0.5% by weight.

(Auth.: HAR §11-60.1-3, §11-60.1-38, §11-60.1-90)

#### 3. Air Pollution Controls

- a. Water spray bars shall be installed, maintained, and utilized as needed during operation of the stone quarrying and processing plant and the portable screening plant to minimize fugitive dust at the following material drop off points:
  - i. At the feeder;
  - ii. Transfer point from conveyor #9 to stockpile;
  - iii. Transfer point from conveyor #1 to conveyor #2;
  - iv. Transfer point from screen to conveyor #5;

- v. Transfer point from conveyor #5 to stockpile;
- vi. Transfer point from conveyor #6 to stockpile;
- vii. Transfer point from screen to conveyor #6 or conveyor #8 (whichever is in use);
- viii. Transfer point from conveyor #11 to stockpile;
- ix. Transfer point from conveyor #12 to stockpile;
- x. Transfer point from conveyor #13 to #14; and
- xi. At the feeder to the portable screening plant.

The Department of Health at any time may require additional water sprays or manual water spraying at pertinent locations if an inspection indicates that more fugitive dust control is needed.

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

- b. The stone quarrying and processing plant shall not be operated if observation or routine inspection of the water spray system required in Attachment II, Special Condition No. D.3, indicates a significant drop in 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 flow rate (gal/min) for the water spray system shall be established in the performance test conducted pursuant to Attachment II, Section F, and may be incorporated into the permit.

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

- c. The portable screening plant shall not be operated if observation or routine inspection of the water spray system required in Attachment II, Special Condition No. D.3, indicates a significant drop in 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.

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

- d. A water spray truck shall be maintained and utilized during the facility's operating hours and at other times as necessary to minimize fugitive dust on haul roads, facility grounds, and storage piles.

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

- e. The permittee shall take measures to control fugitive dust (e.g., wet suppression, enclosures, dust screens, etc.) at the crusher, material transfer points, stockpiles, and throughout the facility. The Department of Health may at any time require the permittee to further abate fugitive emissions if an inspection indicates poor or insufficient control.

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

4. Visible Emissions Limitations

a. 231.5 TPH Stone Quarrying and Processing Plant

- i. The permittee shall not cause to be discharged into the atmosphere from any crusher, fugitive emissions which exhibit greater than fifteen percent (15%) opacity.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.672)<sup>1</sup>

- ii. The permittee shall not cause to be discharged into the atmosphere from any transfer point on conveyors or from any other affected facility, any fugitive dust emissions which exhibit greater than ten percent (10%) opacity.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.672)<sup>1</sup>

- b. 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 of fugitive dust beyond the lot line of the property boundary on which the emissions originate.

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

- c. For any six (6) minute averaging period, the 252 HP diesel engine and 1085 HP diesel engine generator shall not exhibit visible emissions of twenty (20) percent opacity or greater, except as follows: during start-up, shutdown, or equipment breakdown, the 252 HP diesel engine and 1085 HP diesel engine generator may exhibit visible emissions greater than twenty (20) but not exceeding sixty (60) percent opacity for a period aggregating not more than six (6) minutes in any sixty (60) minutes.

(Auth.: HAR §11-60.1-3, §11-60.1-90; §11-60.1-161)

5. Maintenance

The stone quarrying and processing plant, including the water spray system, 252 HP diesel engine, and 1085 HP diesel engine generator, and the portable screening plant shall be maintained in good operating condition at all times with scheduled inspections and maintenance as recommended by the manufacturer, or as needed.

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

6. Location Change

The operation of the equipment covered by this Temporary Covered Source Permit shall involve at least one (1) location change during the term of this permit. Subsequent location changes of the stone quarrying and processing plant, including 252 HP diesel engine and 1085 HP diesel engine generator, and the portable screening plant shall be in accordance

with Attachment II, Section G. For each change in location, the Department of Health 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**

1. All records, including support information, shall be true, accurate and 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 in a permanent form suitable for inspection and made available to the Department of Health or their representative upon request.

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

2. Operating Hour Limitation

- a. The permittee shall install, operate, and maintain a non-resetting hour meter on the 252 HP diesel engine for the continuous and permanent recording of the number of hours operated by the jaw crusher and 252 HP diesel engine. The operating hours of the 252 HP diesel engine shall represent the total hours operated for the purpose of the limitation specified in Attachment II, Special Condition No. C.1.a.
- b. The permittee shall install, operate, and maintain a non-resetting hour meter on the 1085 HP diesel engine generator for the continuous and permanent recording of the number of hours operated by the plant, excluding the primary jaw crusher, and including the 1085 HP diesel engine generator. The operating hours of the 1085 HP diesel engine generator shall represent the total hours operated for the purpose of the limitation specified in Attachment II, Special Condition No. C.1.b.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

3. Water Spray System

- a. At a minimum, a water flow meter shall be installed, operated and maintained to measure the total amount of water used by the water spray system in gallons.

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

- b. The water spray system, to include the water pump, piping system, spray nozzle(s), and any gauges (i.e., water flow meter, water pressure, etc.), shall be checked routinely at least once per week to ensure proper operation of the water spray system.

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

4. Visible Emissions (VE)

- a. Except in those months where VE observations are conducted pursuant to Attachment II, Special Condition No. D.4.c, the permittee shall conduct **monthly** (calendar month) VE observations for the 252 HP diesel engine and 1085 HP diesel engine generator in accordance with 40 CFR Part 60, Appendix A, Method 9, or by use of a Ringelmann Chart as provided. For each month, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the **Visible Emissions Observation Form Requirements**.
- b. Except in those months where a performance test is conducted pursuant to Attachment II, Special Condition No. F.1, the permittee shall conduct **monthly** (calendar month) VE observations for the stone quarrying and processing plant. Observations shall be made at emission points subject to an opacity limit, and shall be performed in accordance with 40 CFR Part 60, Appendix A, Method 9, or by use of a Ringelmann Chart as provided. For the monthly observation, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals for each emission point. For the stone quarrying and processing plant, the observer shall comply with the following additional requirements:
  - i. The minimum distance between the observer and the emission source shall be 4.57 meters (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; and
  - iii. The observer shall record the operating capacity (tons/hr) of the plant at the time the observations were made.

The Department of Health may allow observation of a portion of the total emission points at the stone quarrying and processing plant, if it can be demonstrated that operations have been in compliance with the permit. At a minimum, at least three (3) emission points from the stone quarrying and processing plant shall be observed each month. The selected points for the plant shall include the jaw crusher, screen and one (1) transfer point, or those points as specified by the Department of Health. Allowance to observe a portion of the total required emission points shall be obtained in writing from the Department of Health.

Records shall be completed and maintained in accordance with the **Visible Emissions Observation Form Requirements**.

- c. The permittee shall conduct **annually** (calendar year), VE observations for the 252 HP diesel engine and 1085 HP diesel engine generator by a certified reader in accordance with 40 CFR Part 60, Appendix A, Method 9. For the annual observation, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the **Visible Emissions Observation Form Requirements**.

- d. Upon written request and justification by the permittee, the Department of Health may waive the requirement for the annual VE observation of the 252 HP diesel engine and 1085 HP diesel engine generator. The waiver request is to be submitted prior to the required annual VE observation and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior VE observations indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous annual VE observation.

(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-90)

5. Source Performance Test

Initial and annual source performance tests shall be conducted on the stone quarrying and processing plant pursuant to Attachment II, Section F. Test 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. Records

The permittee shall maintain records on the following:

- a. Total tons of material processed by the stone quarrying and processing plant on a monthly and annual basis for the purposes of annual emissions reporting. Records shall include the start and end dates the plant is operated at each location, the type (e.g., soil, cinder, gravel, etc.) and the amount of material (tons) processed at each location.
- b. Total tons of material processed by the portable screening plant on a monthly and annual basis for the purposes of annual emissions reporting. Records shall include the start and end dates the plant is operated at each location, the type (e.g., soil, cinder, gravel, etc.) and the amount of material (tons) processed at each location.
- c. The number of hours the stone quarrying and processing plant, 252 HP diesel engine, and 1085 HP diesel engine generator operated on a monthly and twelve-month (12-month) rolling basis for the purposes of the limitation specified in Attachment II, Special Condition No. C.1. Monthly records for the diesel engine and diesel engine generator shall include:
  - i. Date of meter reading;
  - ii. Beginning and ending meter readings for each month;
  - iii. Total operating hours for each month;
  - iv. Total operating hours on a twelve-month (12-month) rolling basis; and
  - v. Recorder's name and initials.
- d. Fuel purchase receipts, showing the fuel type, sulfur content (percent by weight), date of delivery, and amount (gallons) of fuel delivered to each location for the 252 HP diesel engine and 1085 HP diesel engine generator. Fuel sulfur content may be

demonstrated by providing the supplier's fuel specification sheet for the type of fuel purchased and received. Records on the total amount (gallons) of fuel fired in the 252 HP diesel engine and 1085 HP diesel engine generator shall be maintained on an annual basis.

- e. Monthly and annual VE records with observation monitoring results of the stone quarrying and processing plant, 252 HP diesel engine, and 1085 HP diesel engine generator's stack exhaust in accordance with the **Visible Emissions Observation Form Requirements**.
- f. Source performance test plans, summaries, and results for the stone quarrying and processing plant.
- g. Equipment inspection, maintenance, and repair work. An inspection, maintenance, and repair log shall be maintained for the equipment covered under this permit. Inspection of, and replacement of parts and repairs to the crushers, screens, water spray system, conveyors, 252 HP diesel engine, and 1085 HP diesel engine generator shall be well documented. At a minimum, the following records shall be maintained:
  - i. Date of the inspection/maintenance/repair work;
  - ii. Description of the part(s) inspected or repaired;
  - iii. Description of the findings and any maintenance/repair work performed; and
  - iv. The name and title of the personnel performing the inspection/work.

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

### **Section E. Notification and Reporting Requirements**

#### 1. Standard Reporting Conditions

Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Conditions Nos. 14, 16, 17 and 25, respectively:

- a. *Anticipated date of initial start-up, actual date of construction commencement, and actual date of start-up;*
- 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 (excluding technology-based emission exceedances due to emergencies); 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)<sup>2</sup>

#### 2. Deviations

The permittee shall report (in writing) **within five (5) working days** any deviations from the permit requirements, including those attributable to upset conditions, the probable cause of

such deviations and any corrective actions or preventative measures taken. Corrective actions may include a requirement for additional source testing, more frequent monitoring, or the 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. Performance Testing

- a. At least **thirty (30) days** *prior to conducting a performance test* pursuant to Attachment II, Section F, the permittee shall submit a written performance test plan to the Department of Health in accordance with Attachment II, Special Condition No. F.4.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; 40 CFR §60.8, SIP §11-60-15)<sup>1,2</sup>

- b. Written reports of the results of the source performance tests conducted to demonstrate compliance shall be submitted to the Department of Health within **sixty (60) days** *after the completion of the performance test*, and shall be in conformance with Attachment II, Special Condition No. F.6.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.676)<sup>1</sup>

### 4. Monitoring Report Forms

The permittee shall submit **semi-annually** the following reports to the Department of Health. 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), be signed and dated by a responsible official, and shall include the following:

- a. Total operating hours of the stone quarrying and processing plant, 252 HP diesel engine, and 1085 HP diesel engine generator on a monthly and twelve-month (12-month) rolling basis;
- b. Identification of the type of fuel fired in the 252 HP diesel engine and 1085 HP diesel engine generator during the respective reporting period. Include the maximum sulfur content (percent by weight) of the fuel; and
- c. Identification of any opacity exceedances as determined by the required VE monitoring of the stone quarrying and processing plant, 252 HP diesel engine, and 1085 HP diesel engine generator. Each exceedance reported shall include the date, six (6) minute average opacity reading, possible reason for exceedance, duration of exceedance, and corrective actions taken. If there were no exceedances, the permittee shall submit in writing a statement indicating that for each equipment there were no exceedances for that semi-annual period.

The enclosed **Monitoring/Annual Emissions Report Form: Operating Hours/Fuel Certification and Consumption** and **Monitoring Report Form: Opacity Exceedances**, shall be used.

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

5. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA, Region 9, the attached **Compliance Certification Form**, pursuant to HAR, Subsection 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 be submitted within **sixty (60) days** after the end of each calendar year, and shall be signed and dated by a responsible official. 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 64 occurred; and
- g. Any additional information as required by the Department of Health including information to determine compliance.

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

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

6. Annual Emissions

As required by Attachment IV, 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, including any hazardous air pollutants. The reporting of annual emissions is due within **sixty (60) days following the end of each calendar year**. Upon the written request of the permittee, the deadline for reporting of annual emissions may be extended, if the Department of Health determines that reasonable justification exists for the extension.

For the stone quarrying and processing operation, the enclosed **Annual Emissions Report Form: Stone Quarrying and Processing Plant**, shall be used. For the portable screening plant, the enclosed **Annual Emissions Report Form: Portable Screening Plant**, shall be

used. For the 252 HP diesel engine and 1085 HP diesel engine generator, the enclosed **Monitoring/Annual Emissions Report Form: Operating Hours/Fuel Certification and Consumption** shall be used to satisfy the requirement of annual emissions reporting.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

#### **Section F. Testing Requirements**

1. Within **sixty (60) days** *after achieving the maximum production rate of the stone quarrying and processing plant but not later than one hundred eighty (180) days after initial start-up*, and **annually** thereafter, the permittee shall conduct or cause to be conducted performance tests on the stone quarrying and processing plant to determine the opacity of emissions. Tests shall be conducted for each point subject to an opacity limit.

The Department of Health 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 §60.675)<sup>1</sup>

2. The performance tests for the stone quarrying and processing plant shall be conducted by a certified reader using Method 9 of 40 CFR Part 60, Appendix A, and the procedures in 40 CFR §60.11 with additions identified in 40 CFR Part 60, Subpart OOO, §60.675(c); or U.S. EPA-approved equivalent methods with written consent from the Department of Health. In addition, the observer shall comply with the following requirements:
  - a. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet); and
  - b. 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.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.675)<sup>1</sup>

3. The performance tests shall be made at the expense of the permittee and shall be conducted at the maximum expected operating capacity of the stone quarrying and processing plant. All performance tests may be monitored by the Department of Health.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; §11-60.1-161; 40 CFR §60.675)<sup>1</sup>

4. At least **thirty (30) days** *prior to conducting the performance test* for the stone quarrying and processing plant, the permittee shall submit a written performance test plan to the Department of Health and U.S. EPA, Region 9, that includes date(s) of the test, test duration, test location, test methods, source operation, locations of visible emissions readings, and other parameters that may affect 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 of Health 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)<sup>1,2</sup>

5. 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 of Health before the tests.

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

6. Within **sixty (60) days** after completion of the performance test for the stone quarrying and processing plant, the permittee shall submit to the Department of Health and U.S. EPA, Region 9, the test report which includes the operating conditions of the facility at the time of the test (e.g., operating rate in tons/hr, water meter pressure in psi and/or flow rate during the test in gal/min, etc.), locations of where the visible emissions were read, visible emission 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 for the stone quarrying and processing plant. The normal operating water pressure (psi) and/or flow rate (gal/min) of the water spray system shall be determined by the water pressure and/or flow rate used during the performance test that demonstrates compliance with the opacity limits of this permit.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.675, 40 CFR §60.676, SIP §11-60-15)<sup>1,2</sup>

7. Upon written request and justification, the Department of Health may waive the requirement for, or a portion of, a specific source 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 test.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

### **Section G. Change of Location Requirements**

1. The permittee shall submit information regarding all location changes to the Department of Health for approval at least **thirty (30) days**, or such lesser time as designated and approved by the Department of Health, prior to the change in location. The information submitted shall include the following:
  - a. Name, address, and phone number of the facility and the plant site manager or other contact;

- b. Temporary covered source permit number and expiration date;
- c. Identification of current location;
- d. Location map of the proposed new temporary location containing the following information:
  - i. Identification of the property/fence lines; and
  - ii. Location of all structures within 100 meters of the equipment. Provide the building dimensions (height, length, and width) of all structures that have heights greater than 40% of the stack height of the equipment.
- e. List of the equipment to be used at the site, equipment numbers, and description of the plant configuration;
- f. Area map showing proposed new proposed location of the stone quarrying and processing plant and portable screening plant;
- g. Projected dates of operation at the new location and the maximum projected operating hours;
- h. Identification of any other air pollution sources at the new location and any other air pollution sources owned or operated by the permittee which have operated at or adjacent to the new location within the last twelve (12) months;
- i. Certification that no modification will be made to the equipment and operational methods will remain similar as permitted under this Temporary Covered Source Permit at the new location; and
- j. Any additional information as requested by the Department of Health, including an ambient air quality impact assessment of the facility at the new location.

(Auth.: HAR §11-60.1-3, §11-60.1-91)

- 2. The applicable filing fee shall be submitted to the Department of Health with each change in location request.

(Auth.: HAR §11-60.1-3, §11-60.1-91)

- 3. 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 HRS, Chapter 91. For each change in location, the Department of Health may impose additional operational controls and restrictions if a site evaluation indicates the controls and/or restrictions are necessary.

(Auth.: HAR §11-60.1-3, §11-60.1-91)

- 4. At each of the authorized locations, the permittee shall operate in accordance with this Temporary Covered Source Permit and all applicable requirements.

(Auth.: HAR §11-60.1-3, §11-60.1-91)

5. All the information required in this section shall be submitted to the Department of Health using the attached form, **Change of Location Request for a Temporary Source**, including the area map(s) showing the new proposed location.

(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 Covered Source Permit 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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<sup>1</sup>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.

<sup>2</sup>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 III: ANNUAL FEE REQUIREMENTS  
TEMPORARY COVERED SOURCE PERMIT NO. 0381-02-CT**

**Issuance Date:**

**Expiration Date: September 22, 2013**

The following requirements for the submittal of annual fees are established pursuant to Hawaii Administrative Rules (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 **sixty (60) 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 Hawaii Administrative Rules, 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 of Health.
4. The annual fees and the emission data shall be mailed to:

**Clean Air Branch  
Environmental Management Division  
Hawaii Department of Health  
919 Ala Moana Boulevard, Room 203  
Honolulu, HI 96814**

**ATTACHMENT IV: ANNUAL EMISSIONS REPORTING REQUIREMENTS  
TEMPORARY COVERED SOURCE PERMIT NO. 0381-02-CT**

**Issuance Date:**

**Expiration Date: September 22, 2013**

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.

1. Complete the attached form(s):

**Annual Emissions Report Form: Stone Quarrying and Processing Plant  
Portable Screening Plant**

**Monitoring/Annual Emissions Report Form: Operating Hours/Fuel Certification and  
Consumption**

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

**Clean Air Branch  
Environmental Management Division  
Hawaii Department of Health  
919 Ala Moana Boulevard, Room 203  
Honolulu, HI 96814**

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 of Health upon request.
4. Any information submitted to the Department of Health 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 secret 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. 0381-02-CT  
PAGE 1 OF \_\_\_\_**

**Issuance Date:**

**Expiration Date: September 22, 2013**

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 certification at least annually, or more frequently as requested by the Department.

(Make Copies of the Compliance Certification Form 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 Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, and any permit issued thereof.

**COMPLIANCE CERTIFICATION FORM  
 TEMPORARY COVERED SOURCE PERMIT NO. 0381-02-CT  
 (CONTINUED, PAGE 2 OF \_\_\_)**

**Issuance Date:**

**Expiration Date: September 22, 2013**

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**

<u>Permit term/condition</u> All standard conditions	<u>Equipment(s)</u> All Equipment(s) listed in the permit	<u>Compliance</u> Continuous Intermittent
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**B. Special Conditions - Monitoring, Recordkeeping, Reporting, Testing, and INSIG**

<u>Permit term/condition</u> All monitoring conditions	<u>Equipment(s)</u> All Equipment(s) listed in the permit	<u>Compliance</u> Continuous Intermittent
<u>Permit term/condition</u> All recordkeeping conditions	<u>Equipment(s)</u> All Equipment(s) listed in the permit	<u>Compliance</u> Continuous Intermittent
<u>Permit term/condition</u> All reporting conditions	<u>Equipment(s)</u> All Equipment(s) listed in the permit	<u>Compliance</u> Continuous Intermittent
<u>Permit term/condition</u> All testing conditions	<u>Equipment(s)</u> All Equipment(s) listed in the permit	<u>Compliance</u> Continuous Intermittent
<u>Permit term/condition</u> All INSIG conditions	<u>Equipment(s)</u> All Equipment(s) listed in the permit	<u>Compliance</u> Continuous Intermittent

**COMPLIANCE CERTIFICATION FORM  
 TEMPORARY COVERED SOURCE PERMIT NO. 0381-02-CT  
 (CONTINUED, PAGE \_\_\_\_ OF \_\_\_\_)**

**Issuance Date:**

**Expiration Date: September 22, 2013**

**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, B.1, Attachment IIA, Special Condition No. B.1.f, etc.). Each 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.

<u>Permit term/condition</u>	<u>Equipment(s)</u>	<u>Method</u>	<u>Compliance</u>
		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

**(Make Additional Copies if Needed)**

**COMPLIANCE CERTIFICATION FORM  
 TEMPORARY COVERED SOURCE PERMIT NO. 0381-02-CT  
 (CONTINUED, PAGE \_\_\_ OF \_\_\_)**

**Issuance Date:**

**Expiration Date: September 22, 2013**

**D. Deviations**

<u>Permit Term/ Condition</u>	<u>Equipment(s) / Brief Summary of Deviation</u>	<u>Deviation Period time (am/pm) &amp; date (mo/day/yr)</u>	<u>Date of Written Deviation Report to DOH (mo/day/yr)</u>
		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 64 occurred.

**(Make Additional Copies if Needed)**

**ANNUAL EMISSIONS REPORT FORM  
STONE QUARRYING AND PROCESSING PLANT  
TEMPORARY COVERED SOURCE PERMIT NO. 0381-02-CT**

**Issuance Date:** \_\_\_\_\_

**Expiration Date:** September 22, 2013

In accordance with the Hawaii Administrative Rules, Title II, 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 Period: \_\_\_\_\_ Date: \_\_\_\_\_

Company Name: \_\_\_\_\_

Facility Name: \_\_\_\_\_

Equipment Location: \_\_\_\_\_

Equipment Description: \_\_\_\_\_

(Provide TPH, Rated-Capacity for Primary Crusher OR Crushing Rate of the Plant)

Serial/ID No.: \_\_\_\_\_

**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: \_\_\_\_\_

Responsible Official (Signature): \_\_\_\_\_

Type of Operation	Materials Processed (tons/yr)	Air Pollution Control Measures in Use	Control Efficiency (% Reductions)
Truck Unloading			
Primary Crushing			
Secondary Crushing			
Screening			
Conveyors			
Stock Piles			

Note: Control measures include water sprays, housing and duct work to baghouses.  
 Use the following Control Efficiencies, unless documentation is available to show otherwise:  
 Dustvent Cyclone with Baghouse: 99.9%  
 Water sprays: 70%  
 Subsequent transfer points of water sprayed material: 35%  
 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.

**Additional Information:**

Maximum throughput (tons/hr) of material entering the primary crusher: \_\_\_\_\_ tons/hr.

**ANNUAL EMISSIONS REPORT FORM  
PORTABLE SCREENING PLANT  
TEMPORARY COVERED SOURCE PERMIT NO. 0381-02-CT**

**Issuance Date:** \_\_\_\_\_

**Expiration Date:** September 22, 2013

In accordance with the Hawaii Administrative Rules, Title II, 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 Period: \_\_\_\_\_ Date: \_\_\_\_\_

Company Name: \_\_\_\_\_

Facility Name: \_\_\_\_\_

Equipment Location: \_\_\_\_\_

Equipment Description: \_\_\_\_\_

(Provide TPH. Rated-Capacity for Screening Plant)

Serial/ID No.: \_\_\_\_\_

**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: \_\_\_\_\_

Responsible Official (Signature): \_\_\_\_\_

Type of Operation	Materials Processed (tons/yr)	Air Pollution Control Measures in Use	Control Efficiency (% Reductions)
Truck Unloading			
Screening			
Conveyors			
Stock Piles			

Note: Control measures include water sprays, housing and duct work to baghouses.  
Use the following Control Efficiencies, unless documentation is available to show otherwise:  
Dustvent Cyclone with Baghouse: 99.9%  
Water sprays: 70%  
Subsequent transfer points of water sprayed material: 35%  
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.

**Additional Information:**

Maximum throughput (tons/hr) of material entering the portable screener: \_\_\_\_\_ tons/hr.

**MONITORING/ANNUAL EMISSIONS REPORT FORM  
OPERATING HOURS/FUEL CERTIFICATION AND CONSUMPTION  
TEMPORARY COVERED SOURCE PERMIT NO. 0381-02-CT  
(PAGE 1 OF 2)**

**Issuance Date:** \_\_\_\_\_

**Expiration Date:** September 22, 2013

In accordance with the Hawaii Administrative Rules, Title II, 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 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: \_\_\_\_\_

Responsible Official (Signature): \_\_\_\_\_

**1. Operating Hours - 231.5 TPH Jaw Crusher with 252 HP Diesel Engine**

Month	Total Operating Hours on a Monthly Basis	Total Operating Hours on a 12-Month Rolling Basis	Notes (i.e. start/end meter readings)
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

**MONITORING/ANNUAL EMISSIONS REPORT FORM  
OPERATING HOURS/FUEL CERTIFICATION AND CONSUMPTION  
TEMPORARY COVERED SOURCE PERMIT NO. 0381-02-CT  
(CONTINUED, PAGE 2 OF 2)**

**Issuance Date:**

**Expiration Date: September 22, 2013**

**2. Operating Hours - 1085 HP Diesel Engine Generator**

Month	Total Operating Hours on a Monthly Basis	Total Operating Hours on a 12-Month Rolling Basis	Notes (i.e., start/end meter readings)
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

**3. Fuel Certification and Consumption for the Reporting Period**

Report the type(s) of fuel and maximum percent sulfur by weight of the fuel fired in the 252 HP diesel engine and 1085 HP diesel engine generator covered by this permit for the reporting period.

Report the fuel usage in gallons per year of each type of fuel fired in the 252 HP diesel engine and 1085 HP diesel engine generator for the 2nd semi-annual reporting period (calendar year).

Equipment Description	Type of Fuel Fired During Report Period	%Sulfur Content by Weight	Fuel Usage, Gallons-per-year (reported in 2 <sup>nd</sup> semi-annual reporting period for the calendar year)

If not already on file at the Department of Health, provide the supplier's fuel specification sheet for the type of fuel indicated in the above table. The fuel specification sheet shall indicate the % sulfur content by weight.



**VISIBLE EMISSIONS FORM REQUIREMENTS  
STATE OF HAWAII  
TEMPORARY COVERED SOURCE PERMIT NO. 0381-02-CT**

**Issuance Date:**

**Expiration Date: September 22, 2013**

The **Visible Emissions (VE) Form** shall be completed **monthly** (*each calendar month*) for each equipment subject to opacity limits in accordance with 40 CFR Part 60, Appendix A, Method 9 or use of a Ringelmann Chart as provided. At least **annually** (*calendar year*), VE observation shall be conducted for each equipment subject to opacity limits by a certified reader in accordance with Method 9. The VE Form shall be completed as follows:

1. Visible emissions observations shall take place during the day only and shall be compared to the Ringelmann Chart provided. 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 (15 feet) from the visible emissions source, but not more than a quarter mile from the visible emission 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.

**VISIBLE EMISSIONS FORM  
TEMPORARY COVERED SOURCE PERMIT NO. 0381-02-CT**

**Issuance Date:** \_\_\_\_\_

**Expiration Date:** September 22, 2013

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

Company Name: \_\_\_\_\_

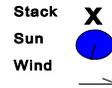
For stacks, describe equipment and fuel: \_\_\_\_\_

For fugitive emissions from crushers and screens, describe:

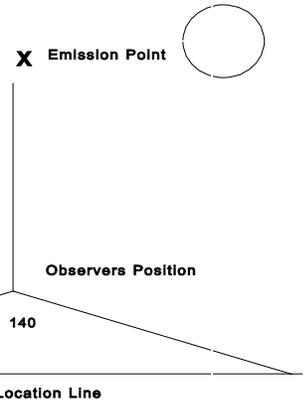
Fugitive emission point: \_\_\_\_\_

Plant Production (tons/hr): \_\_\_\_\_

(During observation)



Draw North Arrow



**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 (°F): \_\_\_\_\_

Observer Name: \_\_\_\_\_

Certified? (Yes/No): \_\_\_\_\_

Observation Date and Start Time: \_\_\_\_\_

Method of observation (Ringelmann Chart or Method 9): \_\_\_\_\_

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

Observation Date and Start Time: \_\_\_\_\_

Method of observation (Ringelmann Chart or Method 9): \_\_\_\_\_

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

**CHANGE OF LOCATION REQUEST  
FOR A TEMPORARY SOURCE  
TEMPORARY COVERED SOURCE PERMIT NO. 0381-02-CT**

**Issuance Date:**

**Expiration Date: September 22, 2013**

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

(Make Copies for Future Use)

1. The permittee shall submit a change of location request for all succeeding location changes. The change of location request shall include the attached Change of Location Request for a Temporary Source Form and the items identified in nos. 2, 3, and 4 below. The change of location request shall be submitted to the Department of Health for approval at least thirty (30) days, or such lesser time as designated and approved by the Department of Health, prior to the change in location.
2. The permittee shall submit a location map of the new temporary location containing the following information:
  - a. Identification of the property boundary, fence lines, and general terrain features (i.e. flat, hilly, steep);
  - b. Location of all structures within 100 meters (330 feet) of the equipment;
  - c. Location of the equipment moving to the new temporary location; and
  - d. Location of other air pollution sources owned and operated by the permittee at the new location, if any.
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  
  
\_\_\_\_\_ \$100.00 for Non-Air Toxic  
\_\_\_\_\_ \$300.00 for Air Toxic
4. If requested by the Department of Health, the permittee shall submit any additional information including an ambient air quality impact analysis of the equipment at the new location.
5. This notification form shall be mailed to the following address:

**CLEAN AIR BRANCH  
ENVIRONMENTAL MANAGEMENT DIVISION  
HAWAII DEPARTMENT OF HEALTH  
919 Ala Moana Boulevard, Room 203  
Honolulu, HI 96814  
(808) 586-4200**

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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 HRS, Chapter 91.
  2. At each new authorized location, the permittee shall operate in accordance with the current Temporary Covered Source Permit and all applicable requirements.

**CHANGE OF LOCATION REQUEST  
FOR A TEMPORARY SOURCE  
TEMPORARY COVERED SOURCE PERMIT NO. 0381-02-CT  
(PAGE 1 OF 2)**

Issuance Date:

Expiration Date: September 22, 2013

- 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: \_\_\_\_\_
- d. Plant manger/contact: \_\_\_\_\_ Phone: \_\_\_\_\_
- e. Proposed start date at new location: \_\_\_\_\_
- f. Estimated project duration at new location: \_\_\_\_\_
- g. Describe general terrain features (e.g. flat, hilly, steep, etc.): \_\_\_\_\_  
Approximate Slope (%): \_\_\_\_\_ Direction of increasing slope: \_\_\_\_\_
- h. List structures within **100 meters (330 feet)** of the equipment and which have heights greater than 40% of the equipment stack height. In the following table, provide the height, length, width, and distance to the equipment stack at the new site. If there are no applicable structures, specify "none."

Structure	Distance from Stack (ft)	Height (ft)	Length (ft)	Width (ft)

**CHANGE OF LOCATION REQUEST  
FOR A TEMPORARY SOURCE  
TEMPORARY COVERED SOURCE PERMIT NO. 0381-02-CT  
(PAGE 2 OF 2)**

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- i. Brief description of the work to be performed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- j. Identify other air pollution sources owned and operated by the permittee at the new location, if any: \_\_\_\_\_  
\_\_\_\_\_
- k. Provide estimated distances to the nearest residence and/or occupied establishments (e.g. schools, businesses, etc.):

<b>Distance</b>	<b>Identify if residence, school, business, etc.</b>

**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 covered source permit at this new location.**

Responsible Official (Print name): \_\_\_\_\_ Date: \_\_\_\_\_

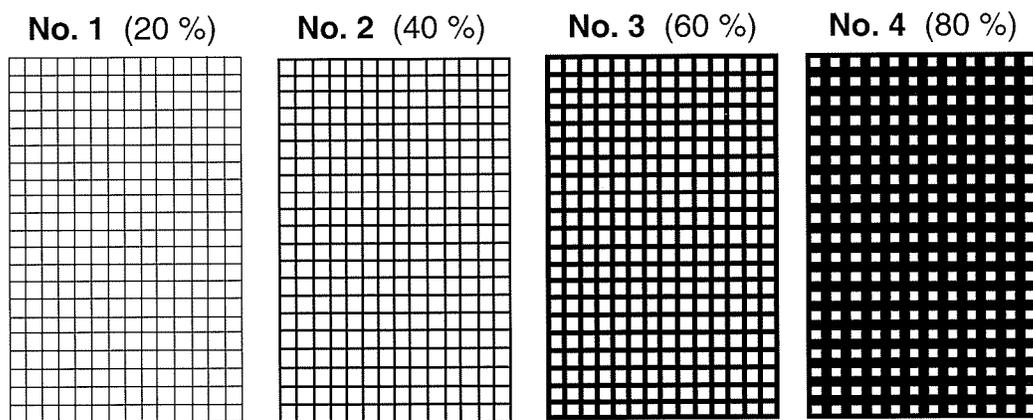
Title of Responsible Official: \_\_\_\_\_

Responsible Official (Signature): \_\_\_\_\_

# The Ringelmann Chart

In the late 1800's in Paris, France, Professor Maximilian Ringelmann developed the **Ringelmann Chart** to measure the combustion efficiency of coal-fired boilers. The shade of the smoke plume shows how well a boiler is operating - the poorer its combustion efficiency, the more unburned carbon particles in the smoke and the darker the plume.

Professor Ringelmann's chart established four measured shades of gray between white, valued at zero, and black, at five. These specific shades of gray, Ringelmann No. 1 to Ringelmann No. 4, can be accurately reproduced by placing a grid of black lines of a given width and spacing on a white background. Viewed from a distance, the grid lines and background merge into the shades of gray, to be compared to the shade of the smoke plume.



Ringelmann Chart (not to scale)

## Regulating Visible Emissions

The Ringelmann Chart became one of the first tools used to measure visible emissions. Introduced into the United States in 1897, it was soon accepted as the standard measure of smoke density and was used by engineers for power plant testing and smokeless combustion studies. In 1910, the Chart was officially adopted as part of the Smoke Ordinance for Boston, Mass.

Many city, state, and federal regulations now set smoke density limits based on the Ringelmann Smoke Chart. Although not originally designed as a regulatory tool to control air pollution, it gives good practical results when used by well-trained observers.