



CONSTRUCTION PERMIT

Permit number: **91AD479F** Issuance: **10**

Date issued: January 18, 2017

Issued to: **L.G. Everist, Inc.**

Facility Name: 88th Avenue Transload Yard
Plant AIRS ID: 001/0616
Physical Location: 7321 E. 88th Avenue, Henderson
County: Adams
General Description: Construction material storage and transfer facility

Equipment or activity subject to this permit:

Construction material storage, and transfer facility whose activities include materials storage, stockpiles, handling, and hauling on site. Descriptions of these processes are listed in Attachment A.

THIS PERMIT IS GRANTED SUBJECT TO ALL RULES AND REGULATIONS OF THE COLORADO AIR QUALITY CONTROL COMMISSION AND THE COLORADO AIR POLLUTION PREVENTION AND CONTROL ACT C.R.S. (25-7-101 et seq), TO THOSE GENERAL TERMS AND CONDITIONS INCLUDED IN THIS DOCUMENT AND THE FOLLOWING SPECIFIC TERMS AND CONDITIONS:

REQUIREMENTS TO SELF-CERTIFY FOR FINAL APPROVAL

1. This construction permit represents final permit approval to operate this emissions source. Therefore, it is not necessary to self-certify. (Regulation Number 3, Part B, III.G.5).

EMISSION LIMITATIONS AND RECORDS

2. Emissions of air pollutants must not exceed the following limitations. Monthly records of the actual point emission rates must be maintained by the applicant and made available to the Division for inspection upon request. (Reference: Regulation Number 3, Part B, II.A.4.)

Annual Limits:

AIRS Point	Tons per Year							Emission Type
	PM	PM ₁₀	PM _{2.5}	NO _x	SO ₂	VOC	CO	
001	24.9	17.2	1.8	-	-	-	-	Point
002	51.2	12.4	1.3	-	-	-	-	Fugitive

See "Notes to Permit Holder" for information on emission factors and methods used to calculate limits. In the absence of credible evidence to the contrary, compliance with the fugitive emission limits are demonstrated by complying with the production limits listed below and by following the attached particulate emissions control plan.



Compliance with the annual limits must be determined on a rolling twelve (12) month total. By the end of each month a new twelve month total is calculated based on the previous twelve months' data. The permit holder must calculate actual emissions each month and keep a compliance record on site or at a local field office with site responsibility for Division review.

All emission calculations must be made using the emission factors and format specified in Notes to Permit Holder. The owner or operator must petition the Division, and receive Division approval in writing, prior to the use of any other method of calculating emissions.

3. The control equipment, as listed in Attachment A, must be maintained and operated to ensure satisfactory performance. The owner or operator must monitor compliance with this condition through the results of approved compliance tests (when required), compliance with the Operating and Maintenance Plan, compliance records, and other methods as approved by the Division. (Reference: Regulation Number 3, Part B, III.E.)

PROCESS LIMITATIONS AND RECORDS

4. This source must be limited to the following maximum consumption, processing and/or operational rates as listed below. Monthly records of the actual process rate must be maintained by the applicant and made available to the Division for inspection upon request. (Reference: Regulation Number 3, Part B, II.A.4)

Process/Consumption Limits

AIRS Point	Process Parameter	Annual Limit
001	Transfer of lime	200,000 tons per year
	Transfer of flyash	150,000 tons per year
	Transfer of cement	250,000 tons per year
	Transfer of rock (rock includes: rock, sand, frac sand, rock salt, and road salt)	800,000 tons per year

Compliance with the yearly process limits must be determined on a rolling twelve (12) month total. By the end of each month a new twelve-month total is calculated based on the previous twelve months' data. The permit holder must calculate monthly process rates and keep a compliance record on site or at a local field office with site responsibility, for Division review.

STATE AND FEDERAL REGULATORY REQUIREMENTS

5. Visible emissions must not exceed twenty percent (20%) opacity during normal operation of the source. During periods of startup, process modification, or adjustment of control equipment visible emissions must not exceed 30% opacity for more than six minutes in any sixty consecutive minutes. Opacity must be determined using EPA Method 9. (Reference: Regulation Number 1, II.A.1. & 4.)
6. The particulate emission control measures listed on the attached page (as approved by the Division) must be applied to the particulate emission producing sources as required by Regulation Number 1, III.D.1.b.

7. This permit is for material handling and storage only, any process equipment (i.e. crushers, screens, etc.) to be located at this site must have a separate permit from the Division. (Reference: Regulation Number 3, Part B, III.E.)
8. Spray bars shall be used on conveyor transfer points to control particulate matter emissions if material moisture content alone is insufficient.

OPERATING & MAINTENANCE REQUIREMENTS

9. The owner or operator must develop an operating and maintenance (O&M) plan, along with a recordkeeping format, that outlines how the applicant will maintain compliance on an ongoing basis with the requirements of this permit. **Compliance with the O&M plan must commence at startup.** Within one hundred and eighty days (180) after commencement of operation or issuance of this permit, whichever is later, the owner or operator must submit the O&M plan to the Division. Failure to submit an acceptable operating and maintenance plan could result in revocation of the permit. Note that the Division may modify the monitoring requirements as part of the Title V Operating Permit if this facility is subject to Title V permitting (Reference: Regulation Number 3, Part B, III.G.2.).

COMPLIANCE TESTING AND SAMPLING

Periodic Testing Requirements

10. There are no periodic testing requirements.

ADDITIONAL REQUIREMENTS

11. All previous versions of this permit are cancelled upon issuance of this permit.
12. The permit number must be posted in an easily visible location for ease of identification. (Reference: Regulation Number 3, Part B, III.E.) (State only enforceable)
13. A Revised Air Pollutant Emission Notice (APEN) must be filed: (Reference: Regulation Number 3, Part A, II.C.)
 - a. By April 30 of the year following a significant increase in emissions. A significant increase in emissions is defined as follows:

For any criteria pollutant:

For sources emitting **less than 100 tons per year**, a change in actual emissions of five tons per year or more, above the level reported on the last APEN submitted; or

For volatile organic compounds (VOC) and nitrogen oxide (NOx) sources in an ozone non-attainment area emitting **less than 100 tons of VOC or nitrogen oxide per year**, a change in actual emissions of one ton per year or more or five percent, whichever is greater, above the level reported on the last APEN submitted; or

For sources emitting **100 tons per year or more of a criteria pollutant**, a change in actual emissions of five percent or 50 tons per year or more, whichever is less, above the level reported on the last APEN submitted; or

For sources emitting **any amount of lead**, a change in actual emissions, above the level reported on the last APEN submitted, of fifty (50) pounds of lead



For any non-criteria reportable pollutant:

If the emissions increase by 50% or five (5) tons per year, whichever is less, above the level reported on the last APEN submitted to the Division.

- b. Whenever there is a change in the owner or operator of any facility, process, or activity; or
- c. Whenever new control equipment is installed, or whenever a different type of control equipment replaces an existing type of control equipment; or
- d. Whenever a permit limitation must be modified; or
- e. No later than 30 days before the existing APEN expires.

GENERAL TERMS AND CONDITIONS:

- 14. This permit and any attachments must be retained and made available for inspection upon request. The permit may be reissued to a new owner by the Division as provided in Regulation Number 3, Part B, II.B upon a request for transfer of ownership and the submittal of a revised APEN and the required fee.
- 15. If this permit specifically states that final approval has been granted, then the remainder of this condition is not applicable. Otherwise, the issuance of this construction permit is considered initial approval and does not provide "final" approval for this activity or operation of this source. Final approval of the permit must be secured from the APCD in writing in accordance with the provisions of 25-7-114.5(12)(a) C.R.S. and AQCC Regulation Number 3, Part B, III.G. Final approval cannot be granted until the operation or activity commences and has been verified by the APCD as conforming in all respects with the conditions of the permit. Once self-certification of all points has been reviewed and approved by the Division, it will provide written documentation of such final approval. **Details for obtaining final approval to operate are located in the Requirements to Self-Certify for Final Approval section of this permit.** The operator must retain the permit final approval letter issued by the Division after completion of self-certification with the most current construction permit.
- 16. This permit is issued in reliance upon the accuracy and completeness of information supplied by the applicant and is conditioned upon conduct of the activity, or construction, installation and operation of the source, in accordance with this information and with representations made by the applicant or applicant's agents. It is valid only for the equipment and operations or activity(ies) specifically identified in this permit. If subsequent operations or testing at the source indicate the information supplied to obtain this permit and relied upon in the creation and issuance of this permit is inaccurate, the source must submit an application to modify the permit to address the inaccuracy(ies). (Reference: Regulation Number 3, Part B III.E.)

By: _____

K.C. Houlden
Permit Engineer

Permit History

Issuance	Date	Description
Initial Approval	October 24, 1991	Issued to Andesite Rock Company
Final Approval	September 9, 1993	
Initial Approval Modification No. 1	April 17, 1997	Change in throughput and addition of new control equipment; return to initial approval
Initial Approval Modification No. 2	August 20, 1997	Increase in material throughput
Initial Approval Modification No. 3	January 4, 2000	Increase in material throughput and addition of cement transfer to permit; public comment completed to become a synthetic minor permit. The physical address was changed to reflect the current mailing address for this source, which is on-site.
Initial Approval Modification No. 4	September 12, 2001	Addition of two cement silos, and cement throughput increase from 70,000 to 100,000 tpy
Final Approval Modification No. 5	March 28, 2003	Increase lime and cement throughputs from 100,000 tpy each to 150,000 tpy and 250,000 tpy respectively; correct emission estimates; correct equipment information.
Final Approval Modification No. 6	August 4, 2004	Increasing lime throughput from 150,000 tpy
Final Approval Modification No. 7	September 22, 2004	Correct fugitive emission limit from 9.1 tpy
Issuance 10	December 21, 2016	Adding frac sand to the materials under transfer of rock. Addition of PM2.5 emissions to permit.
Correction	January 18, 2017	Correction to company name. 5/22/07 APEN requested a company name change and it was not done at that time.

Notes to Permit Holder (as of date of permit issuance):

- 1) The production or raw material processing limits and emission limits contained in this permit are based on the production/processing rates requested in the permit application. These limits may be revised upon request of the permittee providing there is no exceedence of any specific emission control regulation or any ambient air quality standard. A revised air pollutant emission notice (APEN) and application form must be submitted with a request for a permit revision. (Reference: Regulation Number 3, Part B II.A.4.)
- 2) This source is subject to the Common Provisions Regulation Part II, Subpart E, Affirmative Defense Provision for Excess Emissions During Malfunctions. The permittee must notify the Division of any malfunction condition which causes a violation of any emission limit or limits stated in this permit as soon as possible, but no later than noon of the next working day, followed by written notice to the Division addressing all of the criteria set forth in Part II.E.1. of the Common Provisions Regulation. See: <https://www.colorado.gov/pacific/cdphe/aqcc-regs>.

- 3) The emission levels contained in this permit are based on the following emission factors:

Point 001:

Lime					
Source	Pollutant	Emission Factors - Uncontrolled lb/ton of lime transferred	Source	Emission Factors - Controlled lb/ton of lime transferred	Source
Railcar unloading	PM	0.610	AP42 11.17-4	0.03050	95% control
	PM ₁₀	0.427	Division derived	0.02135	95% control
	PM _{2.5}	0.043	Division derived	0.00214	95% control
Truck Loading	PM	0.610	AP42 11.17-4	0.03050	95% control
	PM ₁₀	0.427	Division derived	0.02135	95% control
	PM _{2.5}	0.043	Division derived	0.00214	95% control
Conveying (per xfer)	PM	2.200	AP42 11.17-4	0.1100	95% control
	PM ₁₀	1.540	Division derived	0.0770	95% control
	PM _{2.5}	0.154	Division derived	0.0077	95% control

Flyash					
Source	Pollutant	Emission Factors - Uncontrolled lb/ton of fly ash transferred	Source	Emission Factors - Controlled lb/ton of fly ash transferred	Source
Railcar unloading	PM	0.610	AP42 11.17-4	0.03050	95% control
	PM ₁₀	0.427	Division derived	0.02135	95% control
	PM _{2.5}	0.043	Division derived	0.00214	95% control
Truck Loading	PM	0.610	AP42 11.17-4	0.03050	95% control
	PM ₁₀	0.427	Division derived	0.02135	95% control
	PM _{2.5}	0.043	Division derived	0.00214	95% control
Conveying (per xfer)	PM	2.200	AP42 11.17-4	0.1100	95% control
	PM ₁₀	1.540	Division derived	0.0770	95% control
	PM _{2.5}	0.154	Division derived	0.0077	95% control

Cement					
Source	Pollutant	Emission Factors - Uncontrolled lb/ton of cement transferred	Source	Emission Factors - Controlled lb/ton of cement transferred	Source
Railcar unloading	PM	0.610	AP42 11.17-4	0.03050	95% control
	PM ₁₀	0.427	Division derived	0.02135	95% control
	PM _{2.5}	0.043	Division derived	0.00214	95% control
Truck Loading	PM	0.610	AP42 11.17-4	0.03050	95% control
	PM ₁₀	0.427	Division derived	0.02135	95% control
	PM _{2.5}	0.043	Division derived	0.00214	95% control
Conveying (per xfer)	PM	2.200	AP42 11.17-4	0.1100	95% control
	PM ₁₀	1.540	Division derived	0.0770	95% control
	PM _{2.5}	0.154	Division derived	0.0077	95% control

Frac sand					
Source	Pollutant	Emission Factors - Uncontrolled lb/ton of frac sand transferred	Source	Emission Factors - Controlled lb/ton of frac sand transferred	Control
Railcar unloading	PM	0.122	Division derived	0.00122	99% control
	PM ₁₀	0.085	Division derived	0.00085	99% control
	PM _{2.5}	0.009	Division derived	0.00009	99% control
Truck Loading	PM	0.122	Division derived	0.00122	99% control
	PM ₁₀	0.085	Division derived	0.00085	99% control
	PM _{2.5}	0.009	Division derived	0.00009	99% control
Conveying (per xfer)	PM	0.0030	AP42 11.19.2-2	0.00003	99% control
	PM ₁₀	0.0011	AP42 11.19.2-2	0.00001	99% control
	PM _{2.5}	0.0002	Division derived	0.00001	99% control

Rock					
Source	Pollutant	Emission Factors - Uncontrolled lb/ton of rock transferred	Source	Emission Factors - Controlled lb/ton of rock transferred	Control
Railcar unloading to open conveyor	PM	0.012	AP42 13.2.4-3	0.00180	85% control
	PM ₁₀	0.0059	AP42 13.2.4-3	0.00089	85% control
	PM _{2.5}	0.0006	Division derived	0.00009	85% control
Conveying to open stock piles (per xfer)	PM	0.00294	AP42 11.19.2	0.00011	96.6% control
	PM ₁₀	0.00140	AP42 11.19.2	0.00005	96.6% control
	PM _{2.5}	0.00014	Division derived	0.00001	96.6% control

- 4) In accordance with C.R.S. 25-7-114.1, each Air Pollutant Emission Notice (APEN) associated with this permit is valid for a term of five years from the date it was received by the Division. A revised APEN must be submitted no later than 30 days before the five-year term expires. Please refer to the most recent annual fee invoice to determine the APEN expiration date for each emissions point associated with this permit. For any questions regarding a specific expiration date call the Division at (303)-692-3150.

- 5) This facility is classified as follows:

Applicable Requirement	Status
Operating Permit	Synthetic Minor Source for PM10
PSD	Minor Source
NANSR	Minor Source

- 6) The permit holder is required to pay fees for the processing time for this permit. An invoice for these fees will be issued after the permit is issued. Failure to pay the invoice will result in revocation of this permit. The permit holder must pay the invoice within 30 days of receipt of the invoice (Reference: Regulation Number 3, Part A, VI.B.).

- 7) Unless specifically stated otherwise, the general and specific conditions contained in this permit have been determined by the Division to be necessary to assure compliance with the provisions of Section 25-7-114.5(7)(a), C.R.S.
- 8) Each and every condition of this permit is a material part hereof and is not severable. Any challenge to or appeal of a condition hereof must constitute a rejection of the entire permit and upon such occurrence, this permit must be deemed denied *ab initio*. This permit may be revoked at any time prior to self-certification and final authorization by the Division on grounds set forth in the Colorado Air Pollution Prevention and Control Act and regulations of the AQCC including failure to meet any express term or condition of the permit. If the Division denies a permit, conditions imposed upon a permit are contested by the applicant, or the Division revokes a permit, the applicant or owner or operator of a source may request a hearing before the AQCC for review of the Division's action. (Reference: Regulation Number 3, Part B III.F.)
- 9) Section 25-7-114.7(2)(a), C.R.S. requires that all sources required to file an Air Pollutant Emission Notice (APEN) must **pay an annual emission fee**. If a source or activity is to be discontinued, the owner must notify the Division in writing requesting a cancellation of the permit. Upon notification, annual fee billing will terminate.
- 10) Violation of the terms of a permit or of the provisions of the Colorado Air Pollution Prevention and Control Act or the regulations of the AQCC may result in administrative, civil or criminal enforcement actions under Sections 25-7-115 (enforcement), -121 (injunctions), -122 (civil penalties), -122.1 (criminal penalties), C.R.S.

PARTICULATE EMISSIONS CONTROL PLAN FOR MATERIAL PROCESSING ACTIVITIES

THE FOLLOWING PARTICULATE EMISSIONS CONTROL MEASURES MUST BE USED FOR COMPLIANCE PURPOSES ON THE ACTIVITIES COVERED BY THIS PERMIT, AS REQUIRED BY THE AIR QUALITY CONTROL COMMISSION REGULATION NUMBER 1, III.D.1.b. THIS SOURCE IS SUBJECT TO THE FOLLOWING EMISSION GUIDELINES:

- a. **Haul Roads** - No off-property transport of visible emissions must apply to on-site haul roads, the nuisance guidelines must apply to off-site haul roads.
- b. **Haul Trucks** - There must be no off-property transport of visible emissions from haul trucks when operating on the property of the owner or operator. There must be no off-vehicle transport of visible emissions from the material in the haul trucks when operating off of the property of the owner or operator.

Control Measures

- 1. Emissions from construction material handling (i.e. loading, stockpiling and hauling) must be controlled by watering at all times unless natural moisture is sufficient to control emissions.
- 2. Unpaved haul roads must be watered as often as needed to control fugitive particulate emissions.
- 3. Vehicle speed on haul roads and service roads must be restricted to 10 miles per hour. Speed limit signs must be posted.

ATTACHMENT A

Lime Storage and Transfer

Two (2) storage silos, 200 ton capacity each, with a design load-out rate of 100 tons per hour; Lime unloading from railcars to silos is completed with an enclosed auger and bucket elevator and loaded out to trucks with a Midwest International downspout. Particulate emissions are controlled with two (2) Mikro Pulsaire baghouses, model: 25S-6-30 "B", serial numbers: 950 140 H1 and 950 140 H2.

Cement Storage and Transfer

Two (2) 1000 ton storage silos with railcar transfer system: Cement unloading from railcars to silos is completed using a fully enclosed system consisting of an auger, bucket elevator and Airslide. A cambelt may be used as a secondary system for direct cement transfer from railcar to transport truck at a design rate of 50 tons per hour. Cement is loaded out from the silos using a Midwest International downspout. Particulate emissions are controlled by two baghouses located on the silos: Mikro Pulsaire, model: 255-6-30-B, serial numbers: H122101B & H222101B. Emission from the load out downspouts are controlled by a baghouse: Mikro Pulsaire, model: 255-8-30-TR-C, serial number: 221018H3. The cambelt transfer system is controlled by a baghouse: DCE Dalamatic, model: DLM V6-10F1.

Flyash Storage and Transfer

Two (2) ground storage silos, 1200 ton capacity each, and five (5) overhead storage silos, 200 ton capacity each, with a design load out rate of 100 tons per hour. Flyash unloading from railcars to silos occurs pneumatically via a Fuller Kenyon pump, model: M-200, and load out to trucks is completed with a Midwest International downspout. Particulate emissions are controlled with one (1) Griffen Environmental baghouse, model: JV 726XV, serial number: not issued, two (2) Mikro Pulsaire baghouses, model: 2556-30, serial numbers: 980 198 H1 and 980 198 H2, and one (1) DCE Dalamatic baghouse, model: DLMV 18/15F6, serial number: not issued.

Rock Storage and Transfer

Various conveyors used to transfer material from railcar to open storage piles. Aggregate is loaded out using front-end loaders. Particulate emissions from conveying are controlled using water spray bars.