

LANE REGIONAL AIR POLLUTION AUTHORITY (LRAPA)
1010 MAIN STREET
SPRINGFIELD, OREGON 97477
(541) 736-1056

**MINIMAL
AIR CONTAMINANT DISCHARGE PERMIT (ACDP)**

This permit is being issued in accordance with the provisions of
Lane Regional Air Pollution Authority ~~Rules and Regulations~~, Title 34,
and based on the land use compatibility findings included in the permit record.

ISSUED TO:
Roy L. Houck Construction Co.
4444 22nd Avenue N.E.
Salem, Oregon 97303-2371

INFORMATION RELIED UPON:
Permit/Application No. 203529
Date Received: April 27, 2000

PLANT SITE LOCATION:
Portable (various sites)

LAND USE COMPATIBILITY FINDING:
Not Applicable

**SOURCE PERMITTED TO
DISCHARGE AIR CONTAMINANTS:**
Asphaltic Concrete Paving Plant (Portable)
LRAPA 34-150, Table A No. 34(b)
SIC Code 2951

PERMIT PREVIOUSLY ISSUED TO:
Not Applicable

ISSUED BY LANE REGIONAL AIR POLLUTION AUTHORITY

Brian L. Jennison, Ph.D., Director

Date

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LIST OF COMMON ABBREVIATIONS USED IN AIR CONTAMINANT DISCHARGE PERMITS

ACDP	Air Contaminant Discharge Permit	SO ₂	Sulfur dioxide
ASTM	American Society for Testing and Materials	VE	Visible Emissions
bb1	Barrel (42 gal)	VOC	Volatile Organic Compound
calendar year	The 12-month period beginning January 1 st and ending December 31 st	year	A period consisting of any 12 consecutive months
CFR	Code of Federal Regulations		
CO	Carbon Monoxide		
DEQ	Oregon Department of Environmental Quality		
dscf	Dry standard cubic foot		
EPA	US Environmental Protection Agency		
FCAA	Federal Clean Air Act		
gal	Gallon(s)		
gr/dscf	Grains per dry standard cubic foot		
HAP	Hazardous Air Pollutant as defined by OAR 340-244-0040		
ID	Identification number		
I&M	Inspection and Maintenance		
lb	pound(s)		
LRAPA	Lane Regional Air Pollution Agency		
MMBtu	Million British thermal units		
NO _x	Oxides of nitrogen		
O ₂	Oxygen		
OAR	Oregon Administrative Rules		
ORS	Oregon Revised Statutes		
O&M	Operation and Maintenance		
Pb	Lead		
PCD	Pollution Control Device		
PM	Particulate Matter		
PM ₁₀	Particulate matter less than 10 microns in size		
ppm	Parts per million		
ppmv	Parts per million by volume		
PSEL	Plant Site Emission Limit		
RACT	Reasonably Available Control Technology		
scf	Standard cubic foot		
SERP	Source Emission Reduction Plan		
SIP	State Implementation Plan		

PERMITTED ACTIVITIES

1. This permit allows for the discharge of air contaminants from processes and activities related to the operation of an asphalt production plant and support operations until the date this permit expires, is modified, or is revoked. Compliance with the specific requirements, limitations and conditions contained herein does not relieve the permittee from complying with all other laws, rules and standards administered by LRAPA, nor does it allow significant levels of emissions of air contaminants not limited in this permit or contained in the permit application.
2. **This permit is not valid outside of Lane County**, or at any location where the operation of the permittee's processes, activities, and insignificant activities would be in violation of any local land use or zoning laws. It is the permittee's sole responsibility to obtain local land use approvals as, or where, applicable before operating this facility at any location.

PERFORMANCE STANDARDS AND EMISSION LIMITS

New Source Performance Standards (40 CFR 60, Subparts I and A)

3. As used in this permit, a hot mix asphalt facility is any combination of the following equipment:
 - dryers;
 - systems for screening, handling, storing and weighing hot aggregate;
 - systems for loading, transferring, and storing mineral filler, systems for mixing hot mix asphalt;
 - and the loading transfer and storage systems associated with emission control systems.
4. The hot mix asphalt facility covered under this permit was re-constructed after June 11, 1973 and is subject to applicable requirements as listed in 40CFR 60, Subparts A and I. Applicable particulate matter and visible emissions are listed in condition 5 below.
5. Gases discharged from the hot mix asphalt facility must not:
 - a) contain particulate matter in excess of 0.04 gr/dscf (grains per dry standard cubic feet) as determined by EPA Method 5
 - b) exhibit opacity equal to or greater than 20% as determined by Method 9

To comply with NSPS emission limits the permittee has installed a baghouse for control of PM emissions. Routine maintenance shall be performed on the baghouse to assure proper operation. An entry shall be made in a maintenance log each time work is performed on the baghouse. The log shall indicate the date and type of work performed.

6. Emissions from other equipment not required to meet the standards in condition 4 and 5 above shall not exceed any of the following:

Contaminant Source	Pollutant	Emission Limit	Test Method
Emission units established prior to June 1, 1970	Visible Emissions	20% Opacity	9 (modified)
	Particulate Matter	0.2 grains per standard cubic foot.	5 (Oregon)
Emission units installed, constructed, or modified after June 1, 1970	Visible Emissions	20% Opacity	9 (modified)
	Particulate Matter	0.1 grains per standard cubic foot.	5 (Oregon)

- 6.a. Particulate emissions shall be measured in accordance with Oregon Method 5 (combined front and back half particulate captures of sampling train).
- 6.b. Emissions, excluding uncombined water, from any single air contaminant source shall not exceed the following for an aggregate period of no more than 3 minutes in any one hour:

Plant Site Emission Limits

7. The plant site emissions must not exceed the following:

Pollutant	Plant Site Emission Limit	
	(pounds/hour)	(tons/year)
PM	16.0	2.5
PM ₁₀	12.4	1.9
SO ₂	2.0	0.3
NO _x	48.0	7.5
CO	56.0	8.8
VOC	20.4	3.2

The PSEL is based on the actual predicted emissions for the current operating conditions at the facility.

8. To ensure compliance with the PSELs listed in condition 7 above, the asphalt production is limited to no more than 125,000 tons per year. To monitor compliance with this operational restriction the permittee shall maintain asphalt production records as required per condition 22 of this permit. By January 30th of the each year, the permittee shall calculate annual production, for the previous year, using the monthly production records required in condition 22. The calculated total for any year

must not exceed 125,000 tons.

9. Ancillary air contamination sources from the plant and its facilities which emit air contaminants into the atmosphere such as, but not limited to, the dryer openings, the screening and classifying system, hot rock elevator, bins, hoppers, and pug mill mixer, shall be controlled at all times so as to maintain the highest possible level of air quality and the lowest possible discharge of air contaminants.
10. The handling of aggregate and traffic shall be conducted at all times so as to minimize emissions into the atmosphere.
11. The permittee shall not allow the emission of odorous matter or other fugitive emissions so as to create nuisance conditions off the permittee's property. Nuisance conditions will be verified by LRAPA personnel. The creation of nuisance conditions may, in addition to any other action LRAPA may take, result in a permit modification to require a compliance schedule to control the nuisance conditions.
12. The permittee shall take reasonable precautions to control fugitive dust from becoming airborne. Such reasonable precautions shall include but not be limited to:
 - 12.a. controlling vehicle speeds on unpaved roadways;
 - 12.b. treating vehicular traffic areas of the plant site under the control of the permittee;
 - 12.c. storing collected material from air pollution control equipment in covered containers or use of other method(s) equally effective in preventing the material from becoming airborne during storage and transfer;
 - 12.d. treating storage piles as necessary;
 - 12.e. prompt removal of tracked-out material from paved streets.
13. Emissions of particulate matter which is larger than 250 microns in diameter and which may be deposited upon the real property of another person are prohibited.
14. The permittee shall not combust any fuel oil that does not meet the on-specification standards described in 40 CFR part 279.11. Additionally, the sulfur content of any fuel oil fired at the site is subject to the following limits:
 - 14.a. .3 percent sulfur by weight for ASTM Grade 1 (distillate).
 - 14.b. .5 percent sulfur by weight for ASTM Grade 2 (distillate).
15. The permittee shall not operate the hot mix asphalt without installing and operating systems or processes for the control of particulate emissions so as to comply with the emission limits established by the process weight table, Table 1, included as an attachment to this permit.

SOURCE TESTING REQUIREMENTS

16. Stack emissions shall be tested for PM using Oregon Method 5 or EPA Method 5, as noted in this permit. Substitution of alternative test methods must be pre-approved by LRAPA.
 - 16.a. A pretest plan shall be submitted for approval to the Source Test Coordinator at LRAPA at least 15 days prior to testing. All test data and results shall be submitted to the Source Test Coordinator for review within 45 days after testing unless an alternate submission date or extension is approved by the LRAPA.
 - 16.b. Only regular operating staff may adjust the combustion system and emission control parameters during the source performance tests and within two (2) hours prior to the tests. Any operating adjustments made during the source performance tests, which are a result of consultation during the tests with source testing personnel, equipment vendors or consultants, may render the source performance test invalid.
 - 16.c. During the source test the following parameters shall be monitored and recorded:
 - 16.c.i. opacity readings on the exhaust stack following the procedures of EPA Method 9
 - 16.c.ii. asphalt production rate in tons/hr
 - 16.c.iii. recycled asphalt product (RAP) content as a percent of mix production
 - 16.c.iv. the asphalt mix temperature
 - 16.c.v. the pressure drop across the baghouse or scrubber
17. The source test must include a stack exhaust gas analysis for CO and NO_x, in accordance with Condition 19, below. The results of the analysis will be used as a baseline against which future gas analyses may be compared.
18. Source tests performed to fulfill the requirements of the permittee's permit with ODEQ may be used to satisfy the requirements of this permit.

SPECIAL CONDITIONS

19. The permittee shall tune the burner of the Hot Mix Asphalt Plant annually prior to the peak paving season. The annual tuning shall be performed by the later of the following: a) May 15th, or b) prior to achieving 1/3 of the prior year's annual production. Tuning shall include analysis of stack exhaust gas for CO and NO_x emissions as described below. Stack exhaust gas analyses shall be performed while the plant is operating within 10% of its normal maximum operating capacity. Normal maximum operating capacity shall be recognized as the rate which approximates the plant's maximum operating capacity or the maximum rate which the permittee expects to achieve within the term of the Air Contaminant Discharge Permit. **This is not a requirement for a formal Source Test of the asphalt plant.**
 - 19.a. Stack exhaust gas shall be analyzed for CO and NO_x emissions utilizing a combustion gas analyzer or other method approved by LRAPA. The combustion gas analyzer shall be calibrated according to the manufacturer's specifications. Unless an alternate analysis method is approved by LRAPA, the average CO and NO_x concentrations

(expressed in ppm) of the exhaust gas shall be determined by monitoring the exhaust gas once each minute over a period of twenty (20) consecutive minutes and averaging the results. Plant production rate (expressed in tons of asphalt production per hour), exhaust gas flow rate (if available) and stack exhaust gas temperature shall be monitored and recorded during the exhaust gas analysis.

- 19.b. This condition is not applicable during a year in which a source test has been performed that demonstrates the asphalt plant to be in compliance with the CO and NO_x PSELS.
 - 19.c. Once the initial tune-up and analysis has been performed, facilities that produce less than 75,000 tons of asphaltic concrete per year are exempted from this condition. The owner of a facility that has produced 75,000 tons or more of asphaltic concrete in any year this permit is in effect must perform the tune-up and analysis the following year, as stated in Conditions 19.a and 19.b, above.
20. If, during the term of this permit, the permittee intends to use RAP as a component of hot mix production, the permittee shall first notify LRAPA, allowing it to schedule a trial production run, if deemed necessary, to conduct a visible emission evaluation. During the trial production run, if/when scheduled, RAP shall be included at a rate which approximates the maximum RAP percentage of hot mix production that the permittee expects to achieve within the term of the Air Contaminant Discharge Permit.
21. The permittee must not install or operate the facility at any new site without first providing written notice via e-mail or facsimile, or mail, to LRAPA. The written notice must be received seven (7) days prior to relocating the plant and must include the date of the proposed move, approximate dates of operation, a detailed map showing access to the new site, and a description of the air pollution controls and procedures if changed from the previous location.

MONITORING AND RECORDKEEPING REQUIREMENTS

22. The permittee shall effectively inspect and monitor the operation and maintenance of the plant and associated air contaminant control facilities and shall implement the procedures necessary to monitor and record the following parameters. A record of all such data shall be maintained for a period of two years at the plant site for inspection by the authorized representatives of LRAPA.

Monitored Parameter	Frequency
Total hot mix produced	Daily
All operating and production parameters to be reported to LRAPA annually as required in Condition 24.	As Required
Excess emissions records as required by LRAPA Title 36.	Each Occurrence
A description of any maintenance to the air contaminant control system	Each Occurrence

REPORTING REQUIREMENTS

Annual

23. The permittee shall submit an annual report to LRAPA by January 30 of each year this permit is in effect. Two (2) copies of the report shall be provided in the submission. The annual report shall contain the following information for the preceding calendar year:
24. Plant operating parameters for the previous calendar year:
- 24.a. operating locations;
 - i. total hot mix asphalt produced;
 - ii. highest hourly hot mix production rate that occurred;
 - iii. type and quantity of fuels used for the plant and associated generator; and
 - iv. results of the annual CO and NO_x exhaust gas analysis data, as required by Condition 17.
 - 24.b. A log of all planned and unplanned excess emissions in accordance with LRAPA 36-025.
 - 24.c. Explain any permanent changes made in the plant process or production which would effect air contaminant emissions, and indicate when changes were made.

- 24.d. List all major maintenance performed on air pollution equipment.

Reports shall be sent to LRAPA at the address shown on the last page of this permit, unless otherwise noted. The permit number must be prominently displayed on the report.

PERMIT ACTIONS AND ASSOCIATED FEES

Fees

25. An invoice indicating the fees for this permit, as determined by LRAPA regulations, will be mailed to the permittee. The fee must be submitted to:

Lane Regional Air Pollution Authority
1010 Main Street
Springfield, OR 97477

Construction Notices and Permit Modifications

26. The permittee must notify LRAPA in writing using an LRAPA Notice of Construction Form, or Permit Application Form, and obtain approval in accordance with LRAPA 34-035 before:
- 26.a. Constructing or installing any new source of air contaminant emissions, including air pollution control equipment, or
 - 26.b. Modifying or altering an existing source that may significantly affect the emission of air contaminants, or
 - 26.c. Making any physical change which increases emissions, or
 - 26.d. Changing the method of operation, the process, or the fuel use, or increasing the normal hours of operation to levels above those contained in the permit application and reflected in this permit and which result in increased emissions.
27. Application for a modification of this permit must be submitted **not less than 60 days prior** to the source modification. A Filing Fee and an Application Processing Fee must be submitted with an application for the permit modification.
28. The permittee must notify LRAPA in writing using an LRAPA Application for Administrative Amendment to Air Contaminant Discharge Permit (ACDP) form **within 60 days of the following:**
- 28.a. Legal change of the registered name of the company with the Corporations Division of the State of Oregon, or
 - 28.b. Sale or exchange of the activity or facility.

Applicable Permit Fees must be submitted with an application for the name change.

Permit Renewal

29. A complete application renewal package, including an invoice indicating the fees due, will be mailed to the permittee prior to the expiration date of this permit. The completed application and the Application, Processing, and Filing fees for renewal of this permit are due on the date specified on the invoice. The fees and the application must be submitted to LRAPA at the aforementioned address (unless otherwise notified).

GENERAL CONDITIONS AND DISCLAIMERS

- G1. This permit allows the permittee to discharge air contaminants from processes, activities, and insignificant activities related to the air contaminant source(s) listed in this permit until this permit expires, is modified, or is revoked.
- G2. In addition to the specific requirements listed in this permit, the permittee must comply with all other legal requirements enforceable by LRAPA.
- G3. The permittee must allow the LRAPA's representatives access to the plant site and pertinent records at all reasonable times for the purposes of performing inspections, surveys, collecting samples, obtaining data, reviewing and copying air contaminant emissions discharge records and conducting all necessary functions related to this permit in accordance with ORS 468-095.
- G4. The permittee must have a copy of the permit available at the facility at all times.
- G5. The permittee may not conduct any open burning except as allowed LRAPA Title 47.
- G6. The permittee must at all times conduct dust suppression measures to meet the requirements of Fugitive Emissions and Nuisance Conditions in LRAPA 48-015.
- G7. The permittee must notify LRAPA by telephone or in person of any excess emissions which are of a nature that could endanger public health. Such notice must be provided as soon as possible, but never more than one hour after becoming aware of the problem. The permittee must also submit follow-up reports when required by LRAPA.
- If the excess emissions occur during non-business hours, the permittee must immediately notify LRAPA by calling the Oregon Emergency Response System (OERS). The current number is 1-800-452-0311.
- G8. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.
- G9. LRAPA may revoke this permit pursuant to LRAPA 34-140(3).

ALL INQUIRIES SHOULD BE DIRECTED TO:

Lane Regional Air Pollution Authority
1010 Main Street

Roy L. Houck Construction Co.
Permit No. 203529
Expiration Date: April 5, 2006

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Springfield, OR 97477
Telephone: (541) 736-1056
Fax: (541) 726-1205
e-mail: lrapa@lrapa.org

MH
4/4/01

TABLE I
 (OAR 340-236-0410)
 PROCESS WEIGHT TABLE

Process Weight per Hour (lbs)	Maximum Weight Discharge per Hour (lbs)	Process Weight per Hour (lbs)	Maximum Weight Discharge per Hour (lbs)
50	.24	3400	5.44
100	.46	3500	5.52
150	.66	3600	5.61
200	.85	3700	5.69
250	1.03	3800	5.77
300	1.20	3900	5.85
350	1.35	4000	5.93
400	1.50	4100	6.01
450	1.63	4200	6.08
500	1.77	4300	6.15
550	1.89	4400	6.22
600	2.01	4500	6.30
650	2.12	4600	6.37
700	2.24	4700	6.45
750	2.34	4800	6.52
800	2.43	4900	6.60
850	2.53	5000	6.67
900	2.62	5500	7.03
950	2.72	6000	7.37
1000	2.80	6500	7.71
1100	2.97	7000	8.05
1200	3.12	7500	8.39
1300	3.26	8000	8.71
1400	3.40	8500	9.03
1500	3.54	9000	9.36
1600	3.66	9500	9.67
1700	3.79	10000	10.00
1800	3.91	11000	10.63
1900	4.03	12000	11.28
2000	4.14	13000	11.89
2100	4.24	14000	12.50
2200	4.34	15000	13.13
2300	4.44	16000	13.74
2400	4.55	17000	14.36
2500	4.64	18000	14.97
2600	4.74	19000	15.58
2700	4.84	20000	16.19
2800	4.92	30000	22.22
2900	5.02	40000	28.30
3000	5.10	50000	34.30
3100	5.18	60000 or more	40.00
3200	5.27		
3300	5.36		