DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AIR QUALITY CONTROL MINOR GENERAL PERMIT

MINOR GENERAL PERMIT 3 FOR HOT-MIX ASPHALT PLANTS

PERMIT NO. AQ _____ MG30__.1 Final: April 1, 2014

This minor general permit is to be used for the construction, operation, or relocation of the asphalt plant described within, which has a rated capacity of at least five tons per hour of product, as described in 18 AAC 50.502(b)(1), and that is also classified as, or is part of, a minor stationary source, but is not a Title-V stationary source. This minor general permit satisfies the Permittee's obligation to obtain a permit under AS 46.14.120(g). Technical support for permit conditions and an explanation of revisions from the 2009 Minor General Permit 3 can be found in the Technical Analysis Report. This permit authorizes the Permittee to operate any emission unit identified in Table A Facility Information. This permit is not valid at another source required to have an operating permit. The operator must comply with the applicable requirements at the location where the emission units operate.

This minor general permit does not expire and is valid until the Department terminates, modifies, reopens, or revokes and reissues the permit. The letter of authorization is in effect until withdrawn, modified, revoked and reissued, or if the source no longer qualifies for this permit.

_____
John F. Kuterbach, Manager
Air Permits Program

Application determined complete by:

_____ _____
Signature Authorization Date

_____
Printed Name

Table A Facility Information

Permittee:		**Plant Name:**	
Emissions Unit	**Make**	**Model/Description**	**Rating/ Capacity**
Asphalt Plant:			
Diesel Engines:			
Control Equipment: ☐ Baghouse ☐ Wet Scrubber			

TABLE OF CONTENTS

1. Ambient Air Quality Protection 4
2. Relocation Reporting Requirements 4
3. General Recordkeeping 4
4. General Reporting 4
5. Visible Emissions 5
6. Particulate Matter Emissions from Asphalt Plants 7
7. Sulfur Compound Emissions 8
8. Pollution Control Equipment Breakdown 8
9. Excess Emissions and Permit Deviations 8
10. Air Pollution Prohibited 9
11. Non-Road Engines 9
12. Change of Ownership 9
13. Administrative Fees 9
14. Assessable Emissions & Emission Fees 9
15. Good Air Pollution Control Practice 9
16. Reasonable Precautions to Prevent Fugitive Dust 10
17. Equipment Changes 10
18. Terms to Make the Permit Enforceable 10
19. Source Testing Requirements 11
Assessable Emissions Calculations ..... Appendix A
Fugitive Dust Control Plan ..... Appendix B

Required Forms

Relocation Notification Form ..... Form 1
Excess Emissions and Permit Deviation Report Form ..... Form 2
Emission Fee Estimate Report Form ..... Form 3

Sample Forms*

Facility Operating Report Form ..... Form 4
Visible emissions (Method 9) Observations Form ..... Form 5
Smoke/No Smoke Log ..... Form 6
Complaint Log ..... Form 7
Non-road Engine Location Log ..... Form 8
Equipment Changes Report Form ..... Form 9
Asphalt Plant Daily Production Log ..... Form 10

* Online submission of reports may require use of standardized Sample Forms.

MG3 OPERATING PERMIT CONDITIONS

Table B Emissions Limits

Emission type	Limit
Opacity (Visible Emissions)	20% for asphalt plant and diesel generators with stack diameters 18 inches or greater 15% for diesel generators with stack diameters smaller than 18 inches
Particulate Matter	0.05 gr/dscf (for plants constructed on or before June 11, 1973) 0.04 gr/dscf (for plants constructed after June 11, 1973)
Sulfur Compounds	500 ppm

LOCATION RESTRICTIONS

1. **Ambient Air Quality Protection.** Give adequate consideration to siting issues when operating or changing locations of an asphalt plant (see *Note* in Technical Analysis Report).

1.1. Do not operate the Asphalt Plant or a diesel engine within 330 feet of the nearest occupied structure off the work site.

1.2. Do not operate for more than two construction seasons at the same site located:
a. within 800 feet of the nearest residence or other occupied structure off worksite; or
b. within 1,100 feet of the nearest residence or other occupied structure off worksite if the residence or structure is located on terrain that is more than 50 feet above any ground level of the Asphalt Plant aggregate drier or drum mixer.

1.3. Non-road engine location restrictions: A portable engine does not qualify as a non-road engine if it remains in place for 12 consecutive months or is located at a seasonal source and operates during the full annual operating period of the seasonal source.

1.4. *SO_2 Special Protection Area.* If operating in one of the Sulfur Dioxide Special Protection Areas described in 18 AAC 50.025(c) (Unalaska or St. Paul Island areas) you cannot operate diesel engines for electrical power generation unless burning only ULSD; the asphalt plant must use ULSD.

1.5. *Additional Restrictions for Bells Flats (Kodiak).* In any equipment operating at an asphalt plant in the Bells Flats area of Kodiak that burns liquid fuel, you must burn ULSD.

2. **Relocation Reporting Requirements.** Provide notice to the Department at least 10 days before installing or relocating the Asphalt Plant by using the Relocation Notification form (Form 1). If the location is within one mile of the nearest occupied off-site structure, you must attach a fugitive dust control plan as part of the relocation notice; see Condition 16.

MONITORING, RECORDKEEPING, AND REPORTING

3. **General Recordkeeping.** Keep copies of all monitoring, recordkeeping, reporting, and all other documents required in this permit for at least five years.

4. **General Reporting.**

4.1. ***Submittals.*** Unless otherwise directed by the Department, submit original reports, compliance certifications, or other required documents, by mail, to:

Alaska Department of Environmental Conservation
Air Permits Program
Attn: Compliance Technician
610 University Avenue
Fairbanks, AK 99709-3643

4.2. You may substitute mailed originals by submitting through Department approved electronic reporting methods, if electronic signing methods are available.

4.3. ***Certification:*** Certify any permit application, report, affirmations, or compliance certification submitted to the Department and required under the permit by including the signature of a responsible official for the permitted stationary source following the statement:*"Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete."* Excess emission reports must be certified either upon submittal or with an operating report required for the same reporting period. All other reports and other documents must be certified upon submittal. See 18 AAC 50.990(93) for the definition of "Responsible Official."

4.4. ***Operating Reports.*** Submit operating reports as directed by either Condition 4.1 or 4.2, by the dates listed in Table C. The semi-annual Facility Operating Report (FOR) must include all information required by other conditions of this permit. If the facility does not operate during the winter season, you may submit a report early with your summer FOR.

Table C Operating Report Schedule

Report Type	Reporting Period	Due Date
FOR	April 1 – October 31	November 30
FOR	November 1 – March 31	April 30

4.5. ***Information Requests*.** Furnish to the Department, within a reasonable time, any information that the Department requests in writing to determine whether cause exists to modify, revoke and reissue, or terminate the permit or to determine compliance with the permit. Upon request, furnish to the Department copies of records required to be kept by the permit. The Department may require you to furnish copies of those records directly to the federal administrator.

5. **Visible Emissions.**

5.1. ***Asphalt Plant***. Visible emissions limits are listed in Table B.

Monitor:	• Use EPA Method 9 to determine the opacity of emissions from the asphalt plant. All observations must be at least 18 consecutive minutes.
	• Identify fugitive emission points capable of producing fugitive emissions. Determine which point has the greatest continuous opacity and use this point for monitoring fugitive emissions.
	• Observe visible emissions with Method 9 at the baghouse stack or wet scrubber stack AND at the fugitive emission point identified above:
	  o During regular operation loads (not on idle or reduced loads);
	  o Within two days of startup at the beginning of the season or after relocation;
	  o At least once every 14 operating days; and
	  o Within two days of startup following a shutdown of more than 5 days.
	• If six-minute average opacity is observed as greater than 20%, report as excess emissions under Condition 9 and refer to Condition 15 for Good Air Pollution Control Practices; take corrective actions as appropriate.

Record:	• Keep all observation sheets and summaries for at least five years. • Calculate and record the greatest 6-consecutive-minute averages observed.
Report:	• Submit a list of emission points identified and which point was monitored. This list may be in the form of a simple list, picture with points circled and labeled, or a flow diagram with labeled emissions points. • Submit copies of all Method 9 observations in the FOR. • Submit copies of all Method 9 training certificates for all observers in the reporting period. • Report any failure to monitor as a permit deviation according to Condition 9. • Report any excess emissions (greater than 20% opacity) according to Condition 9.

5.2. ***Diesel Engines***. Visible emissions limits are listed in Table B.

Monitor:	• Use the Smoke/No Smoke Plan or EPA Method 9 to observe emissions from the exhaust stack or port of each diesel engine.
	• Smoke/No Smoke Plan: Observe each stack for the presence or absence of smoke, excluding water vapor.
	  o Initial Frequency: Conduct Smoke/No Smoke observations once every operating day.
	  o After monitoring for 30 consecutive operating days, conduct Smoke/No Smoke observations at least once every 14 operating days.
	  o If smoke is observed, follow the corrective actions in Condition 5.3.
	• Method 9: All observations must be at least 18 consecutive minutes.
	  o First observation: within two days of the beginning of the operating season or after relocating the plant, or within three days after changing from the Smoke/No Smoke Plan.
	  o After the first observation, conduct observations at least once every 14 operating days.
	  o If opacity of greater than 20% is observed, refer to corrective actions in 5.3(e)-(f).

Record:	• Keep all observation sheets, logs, summaries, and Method 9 training certificates for at least five years. • Record date, time, production rate, observer name, and smoke observation in Smoke/No Smoke log.
Report:	• Report which method you used during the reporting period. • Include copies of all Method 9 observations and/or a complete Smoke/No Smoke log for the reporting period in the FOR. • Report if/when you change visible emissions observation methods. • Report any smoke observed under the Smoke/No Smoke Plan and a summary of any corrective actions taken. • Report any failure to monitor in accordance with Condition 9.

5.3. ***Corrective Actions for Smoke Observed in Condition* 5.2**. If smoke is observed while conducting Smoke/No Smoke observations:

a. Do an initial Method 9 observation. If opacity is greater than 20%, see corrective actions in Condition 5.3.e or 5.3.f. Continue using Method 9 to monitor visible emissions, following specifications in Condition 5.2. In order to return to Smoke/No Smoke Plan, follow Conditions 5.3.b through 5.3.d.

b. Initiate actions to eliminate smoke from the engine within 24 hours of the observations;

c. Keep a written record of the starting date, completion date, and a description of the actions taken to reduce smoke; and

d. If seven consecutive observations are made of 0% opacity, you may return to the Smoke/No Smoke Plan beginning with initial frequency (Condition 5.2).

e. If Method 9 observations result in 6-minute average opacity greater than 20%,either:

i. Conduct a Particulate Matter source test within 60 days, following the requirements of Condition 19; or

ii. Make repairs so that emissions no longer exceed 20% opacity averaged over 6 minutes.

f. For diesel engines with stack diameter of less than 18 inches, conduct a Particulate Matter source test if Method 9 observations result in 6-minute average opacity greater than 15%.

6. **Particulate Matter Emissions from Asphalt Plant.** Do not operate the asphalt plant at a production level greater than the maximum throughput measured during the most recent PM source test that showed compliance, except as provided under Condition 19.2. Particulate matter emissions limits are listed in **Table B**.

6.1. ***Required Testing and Frequency of Testing.*** Conduct source tests in accordance with Condition 19 and the following:

a. If a PM source test has not been approved by the Department for your facility within the last five years, conduct a PM source test within the first 30 operating days after receiving your letter of authorization.

b. If the source has conducted a PM source test approved by the Department in the last five years, conduct a source test no later than five years after that test or the first operation thereafter.

c. Conduct a PM source test every five years.

i. If results of any PM source test exceed 0.045 gr/dscf for plants constructed on or before June 11, 1973 or 0.036 gr/dscf for plants constructed after June 11, 1973, you must conduct another source test within one year of the date of the most recent PM source test.

ii. If the plant does not operate in a calendar year, then the calendar year that the plant did not operate does not count toward the time required to conduct another PM source test in Condition 6.1.c.i.

iii. If the plant does not operate in a calendar year, the next source test due date is delayed by one calendar year.

Monitor:	• Conduct at least one 18-consecutive-minute set of EPA Method 9 readings during each one hour run of the PM source test.
Record:	• Record the following during each PM source test: o Average asphalt production rate in tons per hour; o Method 9 readings; o Baghouse exit temperature and pressure drop (if applicable); o Wet scrubber pressure drop and water flow rate (if applicable).
Report:	• Include records of all visible emissions monitoring, production, and pressure drop or flow rate with the source test report as required under Condition 19.8.

6.2. ***Asphalt Plant.***

Record:	• Keep a daily log of the following: o Daily total asphalt production; o Peak hourly rate of production per day; o Startup and shutdown times with the date for each operating day; o Total hours operated per day; and o Total number of operating hours operated since the last source test. • If you have a baghouse, include the following in your daily log: o Pressure drop across baghouse at beginning and end of each production day; and o Outlet temperature of baghouse at the beginning and end of each production day. • If you have a wet scrubber, include the following in your daily log: o Pressure drop across the scrubber at beginning and end of each production day; o Inlet and outlet temperatures of the scrubber at beginning and end of each production day; and o Daily water flow rate of the scrubber.
Report:	• Include the daily production log for the reporting period in each FOR. • Include a summary of baghouse or scrubber inspections including the information listed in Conditions 15.1.f and 15.2.c.

7. **Sulfur Compound Emissions.** Applies to fuel for all engines, including non-road engines. Emissions limits are listed in **Table B**.

Record:	• Keep fuel delivery receipts that specify fuel grade and amount. • If diesel delivery receipts do not show that the diesel is Ultra Low Sulfur Diesel (USLD) or Low Sulfur Diesel (LSD) test delivered fuel for sulfur content, or get a certification statement or analysis from the supplier that shows fuel sulfur percent by weight. • For liquid fuel from a North Slope topping plant, obtain results of a monthly fuel analysis from the topping plant.
Report:	• If only ULSD or LSD was used for the entire reporting period, submit a statement from the fuel supplier stating only ULSD or LSD was supplied with your semi-annual operating report. • If anything other than ULSD or LSD was used (e.g. used oil fuels), submit a list of fuel deliveries with fuel grades, a certificate from the supplier verifying the sulfur content, or a fuel analysis showing sulfur content. • If natural gas was used during the reporting period, submit a statement certified by the Responsible Official for this time period. • If highline power was used during the reporting period, submit a statement certified by the Responsible Official for this time period. • Include a copy of the fuel analysis from a North Slope topping plant, if applicable. • Report the fuel type, including its sulfur content, used for the asphalt burner.

8. **Pollution Control Equipment Breakdowns.**

Record:	• Keep records of pollution control equipment breakdowns and corrective actions.
Report:	• Notify the Department within two days of a pollution control equipment breakdown as a Permit Deviation in accordance with Condition 9. • Include a summary of each breakdown in the FOR.

9. **Excess Emissions and Permit Deviations.**

Record:	• Keep records of excess emissions, permit deviations, and corrective actions.
Report:	• Report excess emissions that present a potential threat to human health or safety or that the owner, operator, or Permittee believes to be unavoidable as soon as possible. • Report unavoidable emergencies, malfunctions, or non-routine repairs that cause excess emissions within two working days after the event started or was discovered. • Report all other excess emissions or permit deviations, including failure to monitor, within 30 days of the end of the month in which the incident occurs. • Report using the online form at http://www.dec.state.ak.us/air/ap/site.htm or the Excess Emissions and Permit Deviation Form listed as Form 2. • Include a summary of excess emissions and permit deviations in each FOR

10. **Air Pollution Prohibited.**

Record:	• Record the date, time, and nature of all emissions complaints received. • Record the name of the person(s) that complained, if known. • Record a summary of any investigations including reasons you do or do not believe the emissions have caused a violation. • Record any corrective actions taken or planned for complaints
Report:	• Include in FOR for each reporting period: o Number of complaints received. o Number of times you or the Department found corrective action necessary. o Number of times action was taken on a complaint within 24 hours. o Status of corrective actions found necessary that were not taken within 24 hours.

11. **Non-road Engines.** Defined in 18 AAC 50.990(63) and 40 C.F.R. 89.2.

Record:	Keep a log of the following items for each non-road engine for at least five years: • Date and location of the engine each time it is relocated. • Make, model, serial number, and rated capacity of the engine.
Report:	• Include the non-road engine location log in each FOR.

GENERAL CONDITIONS

12. **Change of Ownership.** If the ownership of the Asphalt Plant is changed, both the new and previous owners must complete a transfer of ownership form and receive authorization to operate from the Department before the plant is operated by the new owner. The Transfer of Ownership form is available from ADEC Air Permits Program staff or on the Department's website. The website address at the time of issuance of this permit is: http://dec.alaska.gov/air/ap/operatingperapp.html.

13. **Administrative Fees.** You are required pay to the Department all assessed permit administrations fees. Administration fee rates are set out in 18 AAC 50.400-405.

14. **Assessable Emissions & Emission Fees.** You are required to pay to the Department annual emission fees based on the stationary source's assessable emissions as determined by the Department under 18 AAC 50.410. The assessable emission fee rate is set out in 18 AAC 50.410(b). The Department will assess fees per ton of each air pollutant that the stationary source emits or has the potential to emit in quantities great than 10 tons per year. No later than March 31 of each year, you may submit an estimate of the stationary source's assessable emissions to the Department, using the Emission Reporting and Emission Fee Estimate form. Otherwise, emission fees for the next fiscal year will be based on the potential to emit. See Appendix A for calculation of assessable emissions and Form 3 for the Emission Fee Estimate report form.

15. **Good Air Pollution Control Practice.** For all emission units authorized by this permit, you should perform regular maintenance considering the manufacturer's or the operator's maintenance procedures, keep records of any maintenance that would have a significant effect on emissions, and keep a copy of either the manufacturer's or the operator's maintenance procedures on site.

15.1. If you operate an asphalt plant using a baghouse:

a. Operate the baghouse per the manufacturer's recommended operating procedures;

b. At the end of each run, operate the baghouse fans until the baghouse has been purged of exhaust gases per the manufacturer's recommendations;

c. Ensure the pressure drop across the baghouse and outlet temperature remain within the manufacturer's recommendations or specifications;

d. Perform inspections of equipment and complete necessary maintenance prior to startup in a new location, after shutdown of more than five days, and every 30 days of operation at the same location;

e. Replace worn or damaged bags within 72 hours of discovery;

f. Keep a record of the baghouse inspections showing the following:

i. Date of inspection and name of inspector;

ii. Number of worn or damaged bags detected;

iii. Number of bags replaced and date replaced;

iv. Number of worn or damaged seals/gaskets detected; and

v. Number of seal/gaskets replaced and the date replaced.

15.2. If you operate an asphalt plant using a wet scrubber:

a. Inspect every component of the scrubber before beginning operation each season and repair or replace any component that shows signs of deterioration;

b. Maintain pressure drop across the scrubber, water flow rate, inlet and outlet temperatures within limits recommended by the manufacturer;

c. Keep a record of scrubber inspections showing the following:

i. Date of inspection and name of inspector;

ii. Number of components detected that are worn or damaged;

iii. Number of components replaced and date replaced.

16. **Reasonable Precautions to Prevent Fugitive Dust.** A person who causes or permits bulk materials to be handled, transported, or stored, or who engages in an industrial activity or construction project shall take reasonable precautions to prevent the release of airborne PM and fugitive dust from aggregate piles, conveyors and elevators, loading locations, the rotary drum, screens, baghouse ash discharge, vehicle traffic within the stationary source boundaries and other sources of fugitive dust into the ambient air.

16.1. Follow the Fugitive Dust Control Plan (Appendix B) that you included with your minor general permit application or a revised version if submitted to or requested by the Department. A revised or site-specific Fugitive Dust Control Plan must be submitted with each relocation notice if the new location is within one mile of the nearest occupied structure (see Condition 2).

16.2. Reasonable precautions to prevent fugitive dust may include the following:

a. installation and use of hoods;

b. fans and dust collectors to enclose and vent dusty materials;

c. other covers and enclosures;

d. cleanup of loose material on work surfaces;

e. minimizing drop distances on the conveyor systems and lowering loader buckets to be in contact with the surface of the soil or ground before dumping;

f. application of water or dust suppressants;

g. stopping activity in windy conditions.; and

h. measures to prevent carryout or tracking of dust or mud by trucks.

17. **Equipment Changes.** Submit changes in asphalt drum or batch mixer, dryer, control equipment, tertiary crushing, or diesel engine equipment, if capacity differs from original permitted equipment, to the Department within 30 days.

18. **Terms to Make the Permit Enforceable.**

18.1. Compliance with permit terms and conditions is considered to be in compliance with those requirements that are

a. Included and specifically identified in the permit; or

b. Determined in writing in the permit to be inapplicable.

18.2. Comply with each permit term and condition. Noncompliance with a permit term or condition constitutes a violation of AS 46.14, 18 AAC 50.345, and, except for those terms or conditions designated in the permit as not federally enforceable, the Clean Air Act, and is grounds for

a. An enforcement action; or

b. Permit termination, revocation and reissuance, or modification in accordance with AS 46.14.280.

18.3. It is not a defense in an enforcement action to claim that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with a permit term or condition.

18.4. Each permit term and condition is independent of the permit as a whole and remains valid regardless of a challenge to any other part of the permit.

18.5. The permit may be modified, reopened, revoked and reissued, or terminated for cause. A request by the Permittee for modification, revocation and reissuance, or termination or notification of planned changes or anticipated noncompliance does not stay any permit condition.

18.6. The permit does not convey any property rights of any sort, nor any exclusive privilege.

18.7. Allow the Department or an inspector authorized by the Department, upon presentation of credentials and at reasonable times with the consent of the owner or operator to

a. Enter upon the premises where a source subject to the permit is located or where records required by the permit are kept;

b. Have access to and copy any records required by the permit;

c. Inspect any stationary source, equipment, practices, or operations regulated by or referenced in the permit; and

18.8. Sample or monitor substances or parameters to assure compliance with the permit or other applicable requirements.

SOURCE TESTING REQUIREMENTS

19. **Source Testing Requirements.**

19.1. ***General Requirements***. In addition to any source testing explicitly required by the permit, conduct source testing as requested by the Department to determine compliance with applicable permit requirements.

19.2. ***Operating Conditions*.** Unless otherwise specified by an applicable requirement or test method, conduct source testing

a. At a point or points that characterize the actual discharge into the ambient air; and

b. At the maximum rated burning or operating capacity of the emission unit or another rate determined by the Department to characterize the actual discharge into the ambient air.

19.3. ***Reference Test Methods*.** Refer to the Technical Analysis Report for approved reference test methods and details.

19.4. ***Excess Air Requirements*.** Standard exhaust gas volumes must include only the volume of gases formed form the theoretical combustion of the fuel, plus the excess air volume normal for the specific emission unit type, corrected to standard conditions (dry gas at 68°F and absolute pressure of 760 mm of mercury).

19.5. ***Text Exemption*.** You are not required to comply with Conditions 19.6-19.8 when the exhaust is observed for visible emissions by Method 9 Plan or Smoke/No Smoke Plan (Conditions 5.2 and 5.3, for diesel engines only). This does not apply to fugitive emission sources.

19.6. ***Test Plans*.** Before conducting any source tests, submit a plan to the Department. The plan must include the methods and procedures to be used for sampling, testing, and quality assurance, and must specify how the emission unit will operate during the test and how you will document that operation.

Submit a complete plan within 60 days after receiving a request under Condition 5.3.e.i or 19.1 and at least 30 days before the scheduled date of any test unless the Department agrees in writing to some other time period. Retesting may be done without resubmitting the plan.

You may request an extension to a source test deadline established by the Department. You may delay a source test beyond the original deadline only if the extension is approved in writing by the Department's appropriate division director or designee.

19.7. ***Test Notification.*** At least 10 days before conducting a source test, give the Department written notice of the date and the time the source test will begin.

19.8. ***Test Reports.*** Within 60 days after completing a source test, submit a copy of the results in the format set out in the *Source Test Report Outline,* adopted by reference in 18 AAC 50.030. Certify the results in the manner set out in Condition 4.3. If requested in writing by the Department, provide preliminary results in a shorter period of time specified by the Department.

Appendix A: Assessable Emissions Calculation (MG3)

Assessable Emissions differ from a source's Potential to Emit (PTE). PTE is used in calculating a source's permit applicability and classification, i.e. minor or major source. While PTE does not include fugitive particulate emissions, assessable emissions do. A source can be classified as a minor source, yet have emission fees based on a criteria pollutant in excess of 100 tons. Likewise, a major source can have a PTE in excess of 100tpy of a criteria pollutant, yet pay emission fees for that pollutant at a rate far lower. Assessable Emissions use the same calculations as PTE, only operating hours are not based on a maximum potential of 3650 hours (assumed) but instead are based on actual operation for a calendar year. For examples and steps on completing this form to assist in submission of Assessable Emissions, please see the information below.

Equation:
E = (EF x (asphalt produced or hours of operation in a given year x RC)) / lbs per ton

Abbreviations:	
tpy	tons per year
tph	tons per hour
EF	emission factor (AP-42)
RC	rated capacity
lbs	pounds
E	emissions
ULSD	Ultra low sulfur diesel

Report using Form 3 Emission Estimates MG3 total emissions for each pollutant in a calendar year. Each emission unit listed in Table A will need a separate calculation using equations provided, where rated capacity is the horsepower for diesel engines.

Emission factors are pollutant/emission unit specific. Fuel assumes use of Ultra Low Sulfur Diesel (ULSD); please, contact the Department for assistance if you used alternative fuels. Please, see the worksheet on the next page for emission factors and further assistance.

Asphalt Plants	**CO**	**NO_X**	**SO_2**	**VOC**	**PM-10[1]**	**PM-10[2]**
Batch Mix Asphalt Plant	0.4	0.12	0.088	0.0082	0.027	0.14
Drum Mix Asphalt Plant	0.13	0.055	0.011	0.032	0.023	0.04
Asphalt plant emission factors are given in lbs of pollutant per ton of asphalt produced.						

[1]: PM-10 EF for use with a baghouse
[2]: PM-10 EF for use with a wet-scrubber

Diesel Engines	**CO**	**NO_X**	**SO_2[3]**	**VOC**	**PM-10**	
Greater than 600hp	0.0055	0.024	$1.2x10^{-5}$	0.000705	0.0007	
Less than 600hp	0.00668	0.031	$1.2x10^{-5}$	.0000247	0.0022	
Diesel engine emission factors are given in lbs of pollutant per horsepower-hour.						

[3]: SO_2 EF for use with ULSD

Asphalt Plant Worksheet: E = (EF x tons of asphalt produced) / 2000

CO	**NO_X**	**SO_2**	**VOC**	**PM-10**

Diesel Engine Worksheet: E = (EF x hours of operation x RC) / 2000

CO	**NO_X**	**SO_2**	**VOC**	**PM-10**

Total Emissions: add all rows above for listed emission units.

CO	**NO_X**	**SO_2**	**VOC**	**PM-10**

Assessable Emissions: for any pollutant total greater than 10 (tons), round to nearest whole number, for any pollutant less than 10 tons, round down to 0. Enter these values on Form 3 and submit as required under Condition 14.

CO	**NO_X**	**SO_2**	**VOC**	**PM-10**

Appendix B: Fugitive Dust Control Plan Guidelines

The Fugitive Dust Control Plan (Plan) has the purpose to control the fugitive dust emissions from asphalt plant and crusher related activities. The Plan is required for all Minor General Permit holders in order to ensure that reasonable precautions to prevent fugitive dust are taken (MG3 Condition 16, MG9 Condition 15).

A sample plan is on the following page in Appendix B. This plan may be filled out and used for any Minor General Permitted source. You are not required to use the sample form, but similar information contained in the sample form should be included in your plan. If you already have a plan developed or you wish to develop your own plan, the following items should be addressed:

- Points capable of producing fugitive emissions;
- Control of fugitive dust sources, such as:
    - Water application;
    - Dust suppressants;
    - Wind barriers;
    - Hoods, covers, or enclosures;
    - Cleanup of loose materials;
    - Minimizing drop distances and lowering loader buckets before dumping;
    - Fans;
    - Dust collectors;
- Methods to prevent trackout or carryout, such as:
    - Grizzlies or grates;
    - Gravel pads;
    - Paved surfaces;
    - Wheel washers;
    - Truck washing.

Appendix B: Fugitive Dust Control Plan

Please note, it is the responsibility of the Permittee to ensure that no part of their fugitive dust control plan violates any local, state, or federal law.

Section 1 – General Information

1-A Facility Information	
Company Name:	
Plant Name:	
Permit No.:	
1-B Contacts	
Report the names, address, and phone numbers of persons and owners or operators responsible for the implementation of the Dust Control Plan and responsible for the dust generating operation and dust control applications.	
Responsible Official (authorized under 18 AAC 50.990(93))	
Name:	
Phone Number:	
On-site Manager/Operator or Point of Contact (if different from above)	
Name:	
Phone Number:	
1-C Recordkeeping and Reporting	
Keep copy of Fugitive Dust Control Plan on-site at all times. Keep records of deviations from dust plan, reasons for the deviation, and corrective actions taken for at least five years.	

Section 2 – Fugitive Emission Points

2-A Fugitive Emission Points
Identify the relative locations of actual and potential sources of fugitive dust emissions. ☐ Bulk material handling and storage areas. ☐ Paved and unpaved access roads, haul roads, traffic areas, and equipment storage yards. ☐ Exit points where carryout and trackout onto paved public roads may occur. ☐ Water supply locations if water application will be used for controlling visible dust emissions. ☐ Rock crushing operations. ☐ Screening ☐ Conveyors ☐ Fines Screening ☐ Asphalt plant operations ☐ Screening ☐ Conveyors ☐ Baghouse Catch ☐ Drum Mixer Discharge ☐ Hot mix storage silo receiving point
2-B Comments – Fugitive Emission Points

Section 3 – Control of Fugitive Dust Sources

3-A Control of Fugitive Dust Sources

Check any boxes that apply. Checked boxes represent methods that will be used ***as needed***.

Active Operations

☐ Water will be applied to dry areas during leveling, grading, trenching, and earthmoving activities.

☐ Wind barriers will be constructed and maintained, and water or dust suppressants will be applied to the disturbed surface areas.

Inactive Operations, including after work hours, weekends, and holidays

☐ Not applicable for this project (Please explain why in Section 3-C).

☐ Water or dust suppressants will be applied on disturbed surface areas to form a visible crust, and vehicle access will be restricted to maintain the visible crust.

Sites Inactive for Seven or More Days

☐ Not applicable for this project (Please explain why in Section 3-C).

☐ Vehicle access will be restricted and water/dust suppressants will be applied at all un-vegetated areas.

☐ Vegetation will be established on all previously disturbed areas.

☐ Gravel will be applied and maintained at all previously disturbed areas.

☐ Previously disturbed areas will be paved.

Unpaved Access and Haul Roads, Traffic and Equipment Storage Areas

☐ Not applicable for this project (Please explain why in Section 3-C).

☐ Apply water or dust suppressants to unpaved haul and access roads.

☐ Post speed limit signs of not more than 15 mph at each entrance, and again every 500 ft.

☐ Water or dust suppressants will be applied to vehicle traffic and equipment storage areas.

Wind Events

☐ Water application equipment will apply water to control fugitive dust during wind events, unless unsafe to do so. Outdoor construction activities that disturb the soil will cease whenever visible dust emissions cannot be effectively controlled.

3-B Bulk Materials

Check any boxes that apply. Checked boxes represent methods that will be used ***as needed***.

Outdoor Handling of Bulk Materials

☐ Water or dust suppressants will be applied when handling bulk materials.

☐ Wind barriers with less than 50 percent porosity will be installed and maintained, and water or dust suppressants will be applied.

Outdoor Storage of Bulk Materials

☐ Water or dust suppressants will be applied to storage piles.

☐ Storage piles will be covered with tarps, plastic, or other suitable material and anchored in such a manner that prevents the cover from being removed by wind actions.

☐ Wind barriers with less than 50 percent porosity will be installed and maintained around the storage piles and water or dust suppressants will be applied.

☐ A three-sided structure (< 50% porosity) will be used that is at least as high as the storage piles.

On-Site Transporting of Bulk Materials

☐ Vehicle speed will be limited on the work site.

☐ All haul trucks will be loaded such that the freeboard is not less than six inches when transported across any paved public access road.

☐ A sufficient amount of water will be applied to the top of the load to limit visible dust emissions.

☐ Haul trucks will be covered with a tarp or other suitable cover.

Section 3 – Control of Fugitive Dust Sources (cont.)

3-B Bulk Materials - continued

Off-Site Transporting of Bulk Materials

☐ No bulk materials will be transported to or from the project site.
☐ Materials for transport will be wetted as needed.
☐ Covers will be used, as needed. Some or all of the following will be used as necessary:

- The interior of emptied truck cargo compartments will be cleaned or covered before leaving the site.
- Spillage or loss of bulk materials from holes or other openings in the cargo compartment's floor, sides, and tailgates will be prevented.
- Haul trucks will be covered with a tarp or other suitable cover or will be loaded such that the freeboard is not less than six inches when transported on any paved public access road to or from the project site.

Outdoor Transport using a Chute or Conveyor

☐ No chutes or conveyors will be used.
☐ Chute or conveyor will be fully enclosed.
☐ Water spray equipment will be used to sufficiently wet the materials.
☐ Transported materials will be washed or screened to remove fines (PM-10 or smaller).

3-C Comments – Control of Fugitive Dust Sources

Section 4 – Dust Control Methods

4-A Water Application

Complete this section if water application will be used as a control method for limiting visible dust emissions and stabilizing surface areas. Check and answer everything that applies. Checked boxes represent methods that will be used ***as needed***.

Water Application Equipment:

☐ Sprinklers:
Describe the activities that will utilize sprinklers: _____
_____

☐ Water Truck, ☐Water Trailer, ☐ Water Wagon, ☐ Other: _____
Describe the activities that will utilize this equipment: _____
_____

Water application equipment is available to operate after normal working hours, on weekends, and holiday.
After-hours contact: _____ Phone number: _____

Water Supply (as needed):

☐ Fire hydrants. Obtain necessary approval to use specific hydrants.
☐ Storage tanks Number and capacity: _____
☐ Wells Number and flow rate: _____
☐ Canal, River, Pond, Lake, etc. Describe: _____
Approval granted by the owner or public agency to use their water source for this project.
Owner or Agency: _____
Contact: _____ Phone number:_____
☐Other: _____

Section 4 – Dust Control Methods (cont.)

4-B Dust Suppressant Products

Suppressant materials include, but are not limited to: hygroscopic suppressants (road salts), adhesives, petroleum emulsions, polymer emulsions, and bituminous material (road oils).
Copy this section if more than one dust suppressant product will be used.

☐ Not applicable. Only water application will be the control method used.

☐ Applicable.

Product Name: _____

Application Equipment: _____

Number of Application Equipment Available: _____

Attach each of the following information that fully describes this product. Use the checklist below to make sure all information is submitted with this plan.

☐ Product Specifications (MSDS, Product Safety Data Sheet, etc.).

☐ Manufacturer's Usage Instructions (method, frequency, and intensity of application).

☐ Environmental impacts and approvals or certifications related to the appropriate and safe use for ground application.

4-C Other Dust Control Methods

Check the other types of dust control methods that will be implemented at the construction site.

☐ Physical barriers for restricting unauthorized vehicle access:

☐ Fences ☐ Gates ☐ Posts ☐ Berms ☐ Concrete Barriers

☐ Other: _____

☐ Wind barriers – Describe: _____

☐ Posted speed limit signs meet state and Federal Department of Transportation standards.

☐ Posted at 15 miles per hour, ☐ Posted at _____ miles per hour (less than 15 mph)

☐ Re-establish vegetation for temporarily stabilizing previously disturbed surfaces.

Explain: _____

☐ Apply and maintain gravel:

☐ On haul roads ☐ On access roads ☐ At equipment storage yards

☐ At vehicle traffic areas ☐ For temporarily stabilizing previously disturbed areas.

Explain: _____

☐ Apply pavement – Explain: _____

☐ Other: _____

_____

4-D Comments – Dust Control Methods

Section 5 – Carryout and Trackout

5-A Treatments for Preventing Trackout

Trackout is any material that adheres to vehicle tires and is deposited onto a paved public road or the paved shoulder of a paved public road. Check one or a combination that will apply.

☐ *Grizzly:* Rails, pipes, or grates used to dislodge debris off of vehicles before exiting the site. Extends from the intersection with the paved public road surface for the full width of the unpaved exit surface for the distance of at least 25 feet.
Describe: _____

☐ *Gravel Pad:* A layer of washed gravel at least one inch or larger in diameter, three inches deep, and extends from the intersection with the public paved road surface for the full width of the unpaved exit surface for a distance of at least 50 feet.
Describe: _____

☐ *Paved Surface:* Extends from the intersection with the paved public road surface for the full width of the unpaved access road for at least 100 feet to allow mud and dirt to drop off of vehicles before exiting the site.
Describe: _____

Mud and dirt deposits accumulating on paved interior roads will be removed with sufficient frequency, but not less frequently than once per workday.
Clean-up Frequency: _____

☐ *Wheel Washer:* Uses water to dislodge debris from tires and vehicle undercarriage.
Describe: _____

☐ *Other:* _____

5-B Treatments for Preventing Carryout

Carryout occurs when materials from emptied or loaded haul trucks, vehicles, or trailers falls onto a paved public road or paved shoulder of a paved public road. Check all methods that apply.

☐ No haul trucks will be routinely entering or leaving the project site.

Emptied Haul Trucks:
☐ Interior cargo compartments will be cleaned before leaving the project site.
☐ Cargo compartment will be covered with a tarp or suitable cover before leaving the project site.

Loaded Haul Trucks: Spillage or loss of materials from holes or other opening in the cargo compartment will be prevented when material is transported onto any paved public access road.
☐ Haul trucks will be loaded such that the freeboard is not less than six inches with water applied to the top of the load before leaving the project site.
☐ Cargo compartment and load will be covered with a tarp or suitable cover before leaving the project site.
☐ Other: _____

5-C Cleaning up Carryout and Trackout

Clean up Method: Check the method(s) below that will be used for cleaning carryout and trackout.
☐ Manually sweeping and picking up.
☐ Mechanical sweeping with a rotary brush or broom accompanied or preceded by water.
Describe the types of equipment that will be used:_____
☐ Operating a PM10-efficient street sweeper.
Make and Model: _____
☐ Flushing with water – allowed if:

- No curbs or gutters are present.
- Using water will not result as a source of trackout and carryout.
- Using water will not result in adverse impacts on storm water drainage systems.
- Using water will not violate any National Pollutant Discharge Elimination System permit program or Alaska Department of Environmental Conservation, Division of Water Permit.

5-D Comments - Carryout and Trackout

Form 1: Relocation Notification (Application Addendum)

Submit to the Department at least ***10 days before*** moving the plant to any new location.

Facility Information:

Permittee Name:_____ Permit No.: AQ_____

Plant Name:_____

Contact Person:_____ Telephone:_____

Make & Model of the Equipment/Stationary Source to be relocated: _____

_____

Attach a complete list of equipment to be operated at the new location.

Estimated Operating Dates:

Estimated start-up date: _____

Estimated shut-down date: _____

Location Information:

New Plant Location (street address, milepost number, etc. – Include site maps):

_____

_____

Latitude_____ Longitude_____ OR

UTM Coordinates: Zone_____ Northing_____ Easting_____ Datum_____

Distance from Plant boundary to nearest inhabited structure: _____ ft

Nearest inhabited structure(s) are on (check one): _____ flat terrain _____ elevated terrain

If this distance is within 2,000 ft (for rock crushers) or 1 mile (for asphalt plants), include with this addendum a dust control plan that is specific to this location and is adequate to prevent violations of Air Pollution Prohibited (MG3 Condition 10, MG9 Condition 9).

If the plant is to be located in a city or borough with zoning restrictions, please attach the location or siting approval documents from that city or borough to this form (optional).

Comments:_____

_____

_____

Certification:
Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Printed Name:_____ Title:_____ Date:_____

Signature:_____ Phone Number:_____

Send completed report to: Compliance Technician, ADEC Air Permits Program, 610 University Avenue, Fairbanks, AK 99709-3643.

ADEC Notification Form

Excess Emissions and Permit Deviation Reporting
State of Alaska Department of Environmental Conservation
Division of Air Quality

_____ _____
Stationary Source (Facility) Name **Air Quality Permit Number**

_____
Company Name

When did you discover the Excess Emissions/Permit Deviation?
Date: / / Time: :
When did the event/deviation?
Begin: Date: / / Time: : (please use 24hr clock)
End: Date: / / Time: : (please use 24hr clock)

What was the duration of the event/deviation: : (hrs:min) or days
(total # of hrs, min, or days, if intermittent then include only the duration of the actual emissions/deviation)

Reason for notification: (please check only 1 box and go to the corresponding section)
☐Excess Emissions Complete Section 1 and Certify
☐Deviation from Permit Conditions Complete Section 2 and Certify
☐Deviation from COBC, CO, or Settlement Agreement Complete Section 2 and Certify

Section 1. Excess Emissions

(a) Was the exceedance ☐Intermittent or ☐Continuous

(b) Cause of Event (Check one that applies)**:**
☐Start Up/Shut Down ☐Natural Cause (weather/earthquake/flood)
☐Control Equipment Failure ☐Scheduled Maintenance/Equipment Adjustments
☐Bad fuel/coal/gas ☐Upset Condition ☐Other

(c) Description

Describe briefly what happened and the cause. Include the parameters/operating conditions exceeded, limits, monitoring data and exceedance.

(d) Emission Units Involved:
Identify the emission units involved in the event, using the same identification number and name as in the permit. Identify each emission standard potentially exceeded during the event and the exceedance.

Unit ID	Emission Unit Name	Permit Condition Exceeded/Limit/Potential Exceedance

(e) Type of Incident (please check only one):

☐Opacity % ☐Venting (gas/scf) ☐Control Equipment Down
☐Fugitive Emissions ☐Emission Limit Exceeded ☐Record Keeping Failure
☐Marine Vessel Opacity ☐Flaring ☐Other:

(f) Unavoidable Emissions:
Do you intend to assert that these excess emissions were unavoidable? ☐YES ☐NO
Do you intend to assert the affirmative defense of 18 AAC 50.235? ☐YES ☐NO

Certify Report (<u>go to end of form</u>)

Section 2. Permit Deviations

(a) Permit Deviation Type (check one only) (check boxes correspond with sections in permit)

☐ Source Specific
☐ Failure to monitor/report
☐ General Source Test/Monitoring Requirements
☐ Recordkeeping/Reporting/Compliance Certification
☐ Standard Conditions Not Included in Permit
☐ Generally Applicable Requirements
☐ Reporting/Monitoring for Diesel Engines
☐ Insignificant Source
☐ Facility Wide
☐ Other Section: (title of section and section # of your permit)

(b) Emission Units Involved:
Identify the emission units involved in the event, using the same identification number and name as in the permit. List the corresponding Permit condition and the deviation.

Unit ID	Emission Unit Name	Permit Condition /Potential Deviation

(c) Description of Potential Deviation:
Describe briefly what happened and the cause. Include the parameters/operating conditions and the potential deviation.

(d) Corrective Actions:
Describe actions taken to correct the deviation or potential deviation and to prevent future recurrence.

Certification:
Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Printed Name:_____Title_____Date _____

Signature:_____ Phone number_____

NOTE: *This document must be certified in accordance with 18 AAC 50.345(j)*

To Submit this report:

1. Fax this form to: 907-451-2187

Or

2. E-mail to: DEC.AQ.airreports@alaska.gov
   if faxed or e-mailed,

Or

3. Mail to: ADEC
   Air Permits Program
   610 University Avenue
   Fairbanks, AK 99709-3643

Or

4. Phone notifications: 907-451-5173.
   Phone notifications require written follow up report.

Or

5. Submission of information contained in this report can be made electronically at the following website:

   https://myalaska.state.ak.us/dec/air/airtoolsweb/

   if submitted online, report must be submitted by an authorized E-Signer for the Stationary Source.

Form 3: Emission Reporting and Emission Fee Estimate

Submit the following information no later than March 31 of each year to:

ADEC Air Permits Program
610 University Avenue
Fairbanks, AK 99709-3643

Or

FAX to (907) 451-2187

Or

Email to: DEC.AQ.Airreports@alaska.gov
(If emailed, the report must be signed and certified in accordance with 18 AAC 50.345(j).)

Or

Submit emissions online at the following website: https://myalaska.state.ak.us/deca/air/airtoolsweb/

Stationary Source Name:_____

Permit Number:_____ Date:_____

Emission Fee Estimate for:_____(State fiscal year)

Table 1. Total Emissions & Assessable Emission Fee Estimate

Pollutant	Asphalt Plant	Diesel Generator	Assessable Emissions
NO_x			
CO			
SO_2			
PM-10			
VOC			

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

_____ _____ _____
Signature Printed Name Title

Form 4: Minor General Permit (MG3) – Facility Operating Report Form

Facility Information

Stationary Source:_____ Permit No.: AQ_____

Facility Name:_____

Reporting Period: ☐ 11/1/_____ to 3/31/_____ ☐ 4/1/_____ to 10/31/_____

Did this plant operate during this reporting period?

☐ Yes (please complete form) ☐ No (complete the "Certification" section only)

Certification (Condition 4.3)

☐ Certification Statement Signed by a Responsible Official (at end of form)

Visible Emissions - Asphalt Plant (Condition 5.1)

Emissions Points observed: _____ (First point – baghouse or scrubber)
_____ (Second point – please describe)

Method 9 Observations Summary:

Number of Observations	
Highest 6-consecutive-minute Average	
Number of Observations >20%	

☐ All Method 9 Observation forms attached

☐ Excess Emissions/Permit Deviation Forms attached for failure to monitor or for observations of opacity >20%.

Visible Emissions – Diesel Engines (Condition 5.2)

Method used: ☐ Smoke/No Smoke Plan ☐ Method 9 ☐ Both

Smoke/No Smoke Plan Summary:

Number of Observations	
Number of Days Smoke Observed	

☐ Complete Smoke/No Smoke Log attached

☐ Summary of Smoke/No Smoke corrective actions attached

Method 9 Observations Summary:

Number of Observations	
Highest 6-consecutive-minute Average	
Number of Observations >20%	

☐ All Method 9 Observation forms attached

☐ Excess Emissions/Permit Deviation Forms attached for failure to monitor or for observations of opacity >20%.

Particulate Matter (PM) Emissions (Condition 6)

Date of most recent PM source test: _____

☐ Daily asphalt production log attached.

Control Equipment Used: ☐ Baghouse ☐ Scrubber

☐ Summary of baghouse inspections attached, if applicable (Conditions 6.2 & 15.1(f)).

☐ Summary of scrubber inspections attached, if applicable (Conditions 6.2 & 15.2(c)).

Sulfur Compound Emissions (Condition 7)

Was ULSD the ONLY fuel used for the entire reporting period?

☐ Yes, statement certified by Responsible Official attached.

☐ No, list of diesel deliveries and fuel analysis or certification from supplier showing fuel sulfur content attached.

☐ Highline power used. Statement certified by Responsible Official attached.

☐ Natural gas used. Statement certified by Responsible Official attached.

☐ North Slope topping plant fuel used.If checked, attach a copy of fuel analysis.

Asphalt Plant fuel type used: _____

Pollution Control Equipment Breakdowns (Condition 8)

Where there any control equipment breakdowns during this reporting period? ☐ Yes ☐ No

If Yes, ☐ Permit Deviation forms attached ☐ Summary of breakdowns attached

Excess Emissions and Permit Deviations (EE/PD) (Condition 9)

Where there any EE/PDs during this reporting period? ☐ Yes ☐ No

If Yes, ☐ EE/PD forms attached

Complaint Summary (Condition 10)

Did you receive any public complaints about emissions during this reporting period? ☐ Yes ☐ No

If Yes, ☐ Complaint summary attached.

Nonroad Engines (Condition 11)

Are there engines classified as nonroad engines at this facility?

☐ Yes, Nonroad Engine Location Log attached. ☐ No.

Equipment Changes (Condition 17)

Was new equipment added or existing equipment removed? ☐ Yes, attach Form 10. ☐ No.

Source Testing (Condition 19)

PM source test conducted during this reporting period? ☐ Yes, on date: _____ ☐ No.

Certification (Condition 4.3)

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

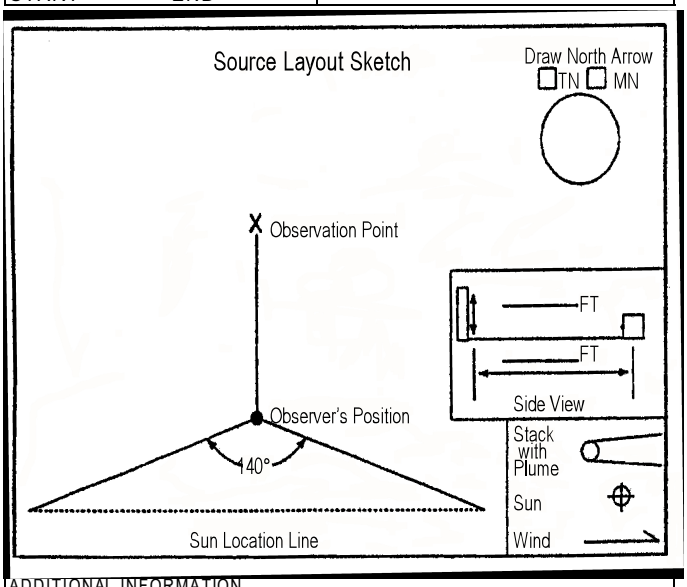
Printed Name:_____ Title:_____ Date:_____

Signature:_____ Phone Number:_____

Send completed report to: Compliance Technician, ADEC Air Permits Program, 610 University Avenue, Fairbanks, AK 99709-3643.

EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM

COMPANY NAME		
LOCATION		
LOCATION		
CITY	STATE	ZIP
PROCESS EQUIPMENT		OPERATING MODE
CONTROL EQUIPMENT		OPERATING MODE
DESCRIBE EMISSION POINT		
HEIGHT OF EMISSION POINT	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER START END	
DISTANCE TO EMISSION POINT START END	DIRECTION TO EMISSION PT. (DEGREES (0-360)) START END	
VERTICAL ANGLE TO OBSERVATION POINT START END	DIRECTION TO OBSERVATION POINT (DEGREES (0-360)) START END	
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START END		
DESCRIBE EMISSIONS START END		
EMISSION COLOR START END	WATER DROPLET PLUME ATTACHED ☐ DETACHED ☐ NONE ☐	
DESCRIBE PLUME BACKGROUND START END		
BACKGROUND COLOR START END	SKY CONDITIONS START END	
WIND SPEED START END	WIND DIRECTION START END	
AMBIENT TEMP START END	WET BULB TEMP	RH percent



ADDITIONAL INFORMATION

OBSERVATION DATE	START TIME	END TIME

MIN \ SEC	0	15	30	45	COMMENTS
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

OBSERVER'S NAME (PRINT)	
OBSERVER'S SIGNATURE	DATE
ORGANIZATION	
CERTIFIED BY	DATE

Form 6: Smoke/No Smoke Log – Diesel Engines Reporting Period: ☐ 11/1/___ to 3/31/____ ☐ 4/1/____ to 10/31/____

Date	Engine ID	Throughput (TPH)	Smoke?		Location	Background Description	Name of Observer
			Yes	No			
Number of Days Smoke/No Smoke was Conducted:					Which Days (if any) Smoke Was Observed:		

Form 7: Complaint Summary Form

Reporting Period: ☐11/1/___ to 3/31/____ ☐ 4/1/____ to 10/31/____

Number of Complaints Received:	
Number of Times Corrective Actions were Found Necessary:	
Number of Times Corrective Action was Taken Within 24 hours:	

Status of corrective actions deemed necessary that were not taken within 24 hours:

_____

_____

_____

_____

_____

_____

_____

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

Form 8: Nonroad Engine Location Log

Company Name:_____

Air Quality Permit Number: _____ Company Equipment ID No.:_____

Engine Manufacturer: _____ Engine Model:_____

Engine Serial No.:_____ Engine Date of Manufacture: _____

Location	Initial Date at Location	Date Moved off Location

Form 9: Equipment Changes Form

Company Name:_____ Permit Number: _____

List in the table below the equipment that was installed or removed during the reporting period. Rated capacity must be included. Only list diesel engines, pollution control equipment, and asphalt drum or dryer. Screens, conveyors, and aggregate bins do not need to be listed.

Equipment ID/Name	Equipment Description	Rated Capacity	Date Installed	Date Removed	Comments

Form 10: Asphalt Plant Daily Production Log – For Plants Using Baghouses

Reporting Period: ☐11/1/___ to 3/31/____ ☐ 4/1/____ to 10/31/____

Date	Start Time	Stop Time	Total Operating Hours	Peak Hourly Production (tph)	Total Production (tons)	Baghouse Pressure Drop		Baghouse Inlet Temperature		Baghouse Outlet Temperature		Initials
						AM	PM	AM	PM	AM	PM	

Form 10: Asphalt Plant Daily Production Log – For Plants Using Wet Scrubbers

Reporting Period: ☐11/1/___ to 3/31/____ ☐ 4/1/____ to 10/31/____

Date	Start Time	Stop Time	Total Operating Hours	Peak Hourly Production (tph)	Total Production (tons)	Scrubber Pressure Drop		Scrubber Inlet Temperature		Scrubber Outlet Temperature		Scrubber Water Flow Rate	Initials
						AM	PM	AM	PM	AM	PM		