TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION

APPLICANT

Rainey Asphalt, LLC
4477 East CR 462
Wildwood, FL 34785

Wildwood Plant #1

Facility ID No. 1190050

PROJECT

Project No. 1190050-003-AC
Application for Minor Air Construction Permit
Project Name: Add RAP Crusher

COUNTY

Sumter, Florida

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Air Resource Management
Southwest District Office
Temple Terrace, Florida 33637-7600

May 9, 2011

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Prepared by Brandy Flavors

GENERAL PROJECT INFORMATION

Air Pollution Regulations

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code (F.A.C.), which includes the following applicable chapters: 62-4 (Permits); 62-204 (Air Pollution Control – General Provisions); 62-210 (Stationary Sources – General Requirements); 62-212 (Stationary Sources – Preconstruction Review); 62-213 (Operation Permits for Major Sources of Air Pollution); 62-296 (Stationary Sources - Emission Standards); and 62-297 (Stationary Sources – Emissions Monitoring). Specifically, air construction permits are required pursuant to Rules 62-4, 62-210 and 62-212, F.A.C.

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial categories. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories. The Department adopts these federal regulations on a quarterly basis in Rule 62-204.800, F.A.C.

Glossary of Common Terms

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of this permit.

I. Project Description:

A. Applicant:

Mr. Ike Rainey, Manager
Rainey Asphalt, LLC
4477 East CR 462
Wildwood, FL 34785

B. Professional Engineer:

Mr. James T. Show, P.E.
Grove Scientific & Engineering Company
6140 Edgewater Drive, Suite F
Orlando, FL 32810

C. Project Location:

4477 East CR 462

D. Project Summary:

For the addition of a RAP crushing system that is further described in the permit.

E. Application Information:

Application Received on: March 23, 2011
Additional Information Requested on: April 4, 2011
Additional Information Received on: April 7, 2011
Application Complete: April 7, 2011

II. Rule Applicability

This project is subject to the preconstruction review requirements of Chapter 403, Florida Statutes and Chapters 62-204 through 62-297, Florida Administrative Code (F.A.C.), as indicated below.

Subject to:	Y/N	Comments
Rule 62-210.300, F.A.C. - Project Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements, F.A.C.	Y	Not exempt from general permitting requirements
Rule 62-212.400, F.A.C. - Prevention of Significant Deterioration	N	facility is not a PSD major source
Rule 62-296.320(4), F.A.C. - General Particulate Emission Limiting Standards	Y	facility is a source of unconfined particulate matter emissions
Rules 62-296.320(1) and (2), F.A.C. - General Pollutant Emission Limiting Standards (VOCs and Odor)	Y	facility is a source of VOC and odors
Rule 62-296.400, F.A.C. - Stationary Source Emission Standards	N	there is no applicable source category
Rule 62-296.500, F.A.C. - Reasonably Available Control Technology (VOC)	N	Sumter County is not an air quality maintenance area for ozone
Rule 62-296.700, F.A.C. - Reasonably Available Control Technology (PM)	N	facility located in a county where PM RACT is not applicable
Rule 62-204.800, F.A.C. - Standards of Performance for New Stationary Sources (NSPS)	Y	The asphalt plant is subject to 40 CFR 60, Subpart I. The portable crushing system may be subject to

Subject to:	Y/N	Comments
		40 CFR, Subpart OOO.
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants (NESHAPS – 40 CFR 61)	N	there is no applicable source category
Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants for Source Categories a.k.a. MACT (NESHAPS – 40 CFR 63)	N	There is no applicable source category
Chapter 62-213, F.A.C. - Operation Permits for Major Sources of Air Pollution	N	facility is a synthetic non-Title V source
Rule 62-297.310, F.A.C. - General Compliance Test Requirements, F.A.C.	Y	VE and PM testing is required for EU No. 001. VE testing is required for EU No. 002.

III. Summary of Emissions

Pollutant	EU No. or Source	Potential Emissions gr/dscfm	lbs/hr.	tpy	Allowable Emissions gr/dscfm	lbs/hr.	tpy, opacity
PM	002	0.04	0.21	0.91	0.04	n/a	n/a
	001	0.04	8.64	37.84	0.04	n/a	n/a
	Asphalt Fugitive Emissions	n/a	n/a	4.57	n/a	n/a	n/a
	Facility Total	0.04	8.85	43.32	n/a		
VOC	001	n/a	9.60	7.60	n/a		
	Facility Total	n/a	9.60	8.40	n/a		
NOx	001	n/a	16.50	13.06	n/a		
	Facility Total	n/a	16.50	23.78	n/a		
SO2	001	n/a	41.38	70.45	n/a		
	Facility Total	n/a	41.38	71.15	n/a		
CO	001	n/a	39.00	30.88	n/a		
	Facility Total	n/a	39.00	33.08	n/a		
HCl[a]	Facility Total	n/a	n/a	4.0	n/a		
VE	001						<20

[a] Based on burning 1.2 million gallons of on-specification reclaimed fuel at 1,000 ppm total halogens and considering all halogens are converted to HCl which is a HAP.

Note: Exempt heater and engine included in emission calculation for EU001 with 1.2 million gallon fuel limitation. Emission factors for EU 002 based on controlled sources (with wet suppression) from AP-42 Table 11.19.2-2 EMISSION FACTORS FOR CRUSHED STONE PROCESSING OPERATION.

IV. Conclusions

The emission limits proposed by the applicant will meet all of the requirements of Chapters 62-204 through 297, F.A.C.

The General and Specific Conditions listed in the proposed permit (attached) will assure compliance with all the applicable requirements of Chapters 62-204 through 297, F.A.C.

V. Preliminary Determination

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the draft permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the draft permit. Additional details of this analysis may be obtained by contacting the project engineer at the Florida Department of Environmental Protection Air Resource Management, Southwest District 13051 North Telecom Parkway, Temple Terrace, Florida 33637-7600.

Pursuant to Section 403.087, Florida Statutes and Section 62-4.070, Florida Administrative Code, the Department hereby gives notice of its intent to issue a permit to construct the aforementioned air pollution source in accordance with the draft permit and its conditions as stipulated (see attached).