

Staff Report

July 15, 2010

Compliance Plan for Heavy Constructors, Inc.

GENERAL INFORMATION

APPLICANT	Heavy Constructors, Inc.
REQUEST	Compliance Plan pursuant to Rapid City Municipal Code Section 8.38.030
LOCATION	4101 N Deadwood Avenue
DATE OF APPLICATION	June 16, 2010
REPORT BY	Keri Schiferl, Air Quality Specialist

RECOMMENDATION

Staff recommends that the Air Quality Board approve the Heavy Constructors, Inc. Compliance Plan.

GENERAL COMMENTS

The Heavy Constructors, Inc. Compliance Plan Permit expired on July 10, 2010. The Heavy Constructors, Inc. facility is located at 4101 N Deadwood Avenue. The application for a new Compliance Plan Permit was submitted on July 14, 2010. A Compliance Plan is required for any continuous operation that may cause fugitive emissions to be released into the ambient air. A Compliance Plan Permit is used to verify that reasonably available control technology (RACT) is provided to prevent fugitive emissions from becoming airborne.

STAFF REVIEW

The Heavy Constructors Inc. facility located on Deadwood Avenue consists of material and equipment storage areas. Materials that are handled on site include waste concrete, fill dirt, rip rap, top soil and recycled asphalt. The concrete dump site is located in the southwest corner of the stockpile area. Stockpiles of asphalt millings, fill dirt, rip rap and topsoil are present on the site. The application indicates that the stockpile area is approximately 18 acres with the equipment storage area covering approximately 13 acres. The amount of materials handled per year varies from 600 tons of topsoil to 11,000 tons of recycled asphalt.

The application indicates that a rock entrance and rumble strips are used to minimize trackout from the site. Deadwood Avenue is swept as needed if trackout occurs. The haul roads are maintained with a motor grader and are watered as needed to control fugitive dust. The parking lot and main haul roads of the facility are surfaced with asphalt millings. The surface of the material stockpile area is dirt which is watered as necessary to control fugitive emissions.

Date of Application: 6-16-10

Office use only:

Permit No.	
Issue Date	
Expiration Date	
Fee	1500

SITE OWNER INFORMATION:

Owner Name: HEAVY CONSTRUCTORS, INC.
 Owner Address: 4101 N DEADWOOD AVE, RAPID CITY, SD 57702 PO BOX 3239 RAPID CITY, SD 57709
 Contact Person: DAVID GUSTAFSON Business Phone: 342-3152

ACTUAL SOURCE LOCATION AND ADDRESS IF DIFFERENT THAN ABOVE:

Site Name: _____
 Address: _____
 Contact Person: _____ Business Phone: _____

SITE INFORMATION AND FUGITIVE DUST CONTROL MEASURES

Reasonably available control technology shall be provided to prevent fugitive emissions from becoming airborne. If the space below is not adequate to describe site activities and control measures, please submit a separate document which includes all required information. Please check appropriate box(es) to identify site activities (No. 1 through No. 4) and fill in all information within the applicable section.

NO.1 STREET TRACTION AND DEICING MATERIAL DEPOSITION

Number of miles of paved road surface _____ miles
 Type of surface material(s) Concrete Asphalt Other ASPHALT MILLINGS
 Condition of surface material Good Fair Poor Other _____
 Site map (including details for road network) Yes No

If NO, when will plan be submitted?

Type of traffic	<u>75%</u> Percent Light Vehicles	<u>10</u> Typical number of wheels	END DUMP
	<u>25%</u> Percent Heavy Vehicles	<u>22</u> Typical number of wheels	SIDE DUMP
Street speed limit(s)	<u>10</u> Miles per hour		
Number of Vehicle Trips	<u>50</u> Per day		

Season of most use (select Same if consistent) Spr Sum Fall Wint Same throughout the year

Fugitive Dust Control Methods

	Deposition of traction and deicing materials of appropriate hardness (please attach specifications)		
<input checked="" type="checkbox"/>	Sweeping	Type & Frequency:	DRIVEABLE BROOM AS NEEDED ON DEADWOOD AVE.
<input checked="" type="checkbox"/>	Water flushing (when safety is not jeopardized)	Frequency:	WATER AS NEEDED
<input checked="" type="checkbox"/>	Other:	ASPHALT MILLINGS ON ENTIRE PARKING LOT & EQUIPMENT STORAGE AREAS	

Provide a full description of selected control measures:

SILT FENCE ALONG DRAINAGE AREA OF DUMP SITE. RUMBLE STRIPS HAVE BEEN INSTALLED TO CUT DOWN ON AMOUNT OF MUD TRACKED ON TO HWY. WE ALSO USE MOTOR GRADER TO MAINTAIN HAUL ROADS.

NO. 2 LOADING/UNLOADING MATERIALS THAT GENERATE FUGITIVE EMISSIONS

Describe the type of material that is loaded and unloaded:

SEE STORAGE MATERIAL DATA SHEET

Describe the frequency and method of material loading and unloading:

SEE STORAGE MATERIAL DATA SHEET

Describe all fugitive dust control measures for site activities:

- ROCK ENTRANCE
- WATER HAUL ROAD AND EQUIPMENT STORAGE AREA AS NEEDED
- RUMBLE STRIPS
- SILT FENCE
- MECHANICAL SWEEPING DEADWOOD AVE AS NEEDED

NO. 3 ON-GOING SOIL FILL/BORROW OPERATIONS

Type of fill material:

Describe the frequency material is brought to the site:

Describe frequency of site grading activities:

Describe all fugitive dust control measures for site activities including timeframe for site reclamation:

NO. 4 OTHER

Describe the type(s) of activity involving fugitive emissions:

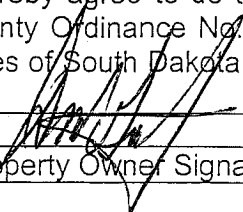
Describe all fugitive dust control measures for site activities:

SIGNATURES

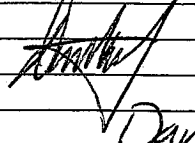
The Rapid City Area Air Quality Board and/or the Rapid City Growth Management Department reserve the right to request additional control measures if the reasonably available control technology presented above prove to be insufficient. In addition, information regarding emissions and/or emissions calculations may be requested by the Growth Management Department. When requested, the information must be provided in writing to the Growth Management Department.

The Growth Management Department will conduct annual inspections or on a complaint basis for continuous operation sites.

I hereby agree to do the proposed work as described in this application and in accordance with Pennington County Ordinance No. 12, Rapid City Municipal Code Chapters 8.34 through 8.44 and/or the Administrative Rules of South Dakota Chapter 74:36:17.

Signature  Date <u>6-16-10</u>	Signature _____ Date _____
Print Name <u>David Gustafson</u>	Print Name _____

For Corporations, Partnerships, etc.

Signature  Date <u>6-16-10</u>	Signature _____ Date _____
Print Name <u>David Gustafson</u>	Print Name _____
Title <u>President</u>	Title _____

Authorized Agent Signature _____ Date _____	Authorized Agent Signature _____ Date _____
Print Name _____	Print Name _____
Title _____	Title _____

ACTION BY RAPID CITY AREA AIR QUALITY BOARD

This compliance plan has been reviewed and approved by the Rapid City Area Air Quality Board.

Comments: _____

RAPID CITY AREA AIR QUALITY BOARD SIGNATURE APPROVAL

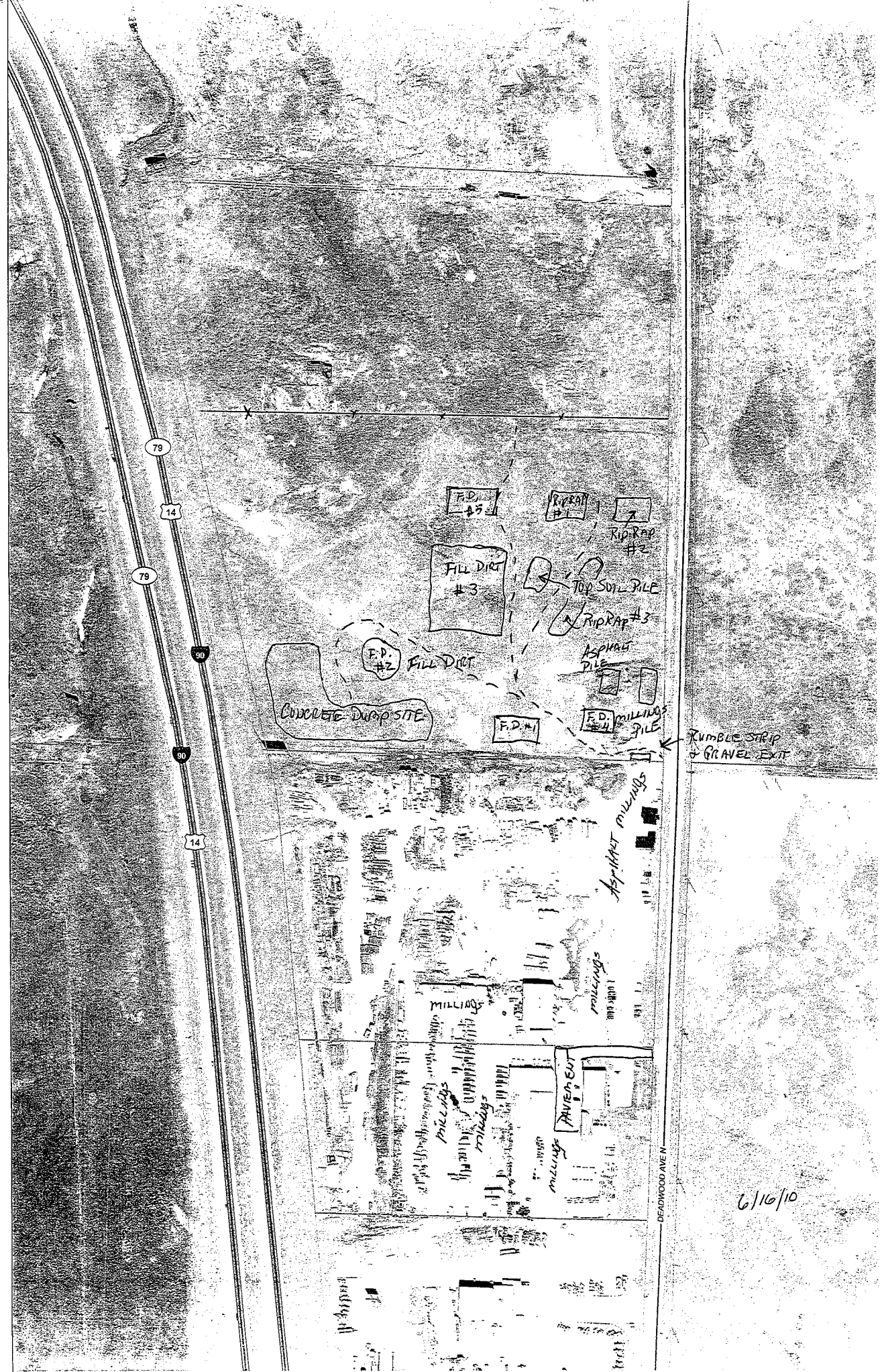
Board Chair Signature/Date

STORAGE MATERIAL DATA

MATERIAL HANDLING						
Material Type	No. Loads	Total trips	Distance	Tot. Material	Material Wt	Avg Vehicle
	per year	per year (one way)	per trip (miles)	per year (tons)	per load (tons)	Wt. Empty (tons)
WASTE CONCRETE	100		2000'	1500	15	13
FILL DIRT	150		1600'	2250	15	13
RIP RAP	50		2000'	950	19	18
TOP SOIL	40		1500'	600	15	13
RECYCLED ASPHALT	500		200'	11000	22	18

STOCKPILES						
Material Type	Pile Size			HEIGHT		
	Length	Width				
ASPHALT PILE MILLINGS	60'	40'		10'		
FILL DIRT #1	105'	75'		15'		
FILL DIRT #2	54'	45'		10'		
FILL DIRT #3	135'	200'		20'		
FILL DIRT #4	100'	66'		20'		
RIP RAP #1	60'	54'		8'		
RIP RAP #2	36'	27'		6'		
RIP RAP #3	100'	40'		12'		
FILL DIRT #5	70'	40'		15'		

STORAGE AREA						
Area	Area Size					
	Length	Width				
STOCK PILE AREA	APPROX. 18 ACRES					
EQUIPMENT AREA	13 ACRES					
HAUL ROAD LENGTH	1600'					



79

14

79

14

14

F.P. #5

RIP RAP #1

7

RIP RAP #2

FILL DIRT #3

TOP SOIL PILE

RIP RAP #3

F.P. #2 FILL DIRT

ASPHALT PILE

CONCRETE DUMP SITE

F.P. #1

F.P. #4 MILLINGS PILE

RUMBLE STRIP & GRAVEL EXIT

ASPHALT MILLINGS

MILLINGS

MILLINGS

RAVEIN CUT

DEADWOOD AVE N

6/16/10