

COASTAL ZONE ENVIRONMENTAL IMPACT OFFSET MATRIX

Applicant:  
Project:  
CZA Offset Review Reference: (DNREC Only)

Page 1 of 1  
Application Date:  
Amendments:  
Offset Review Date: (DNREC Use Only)  
Matrix Amended:

ENVIRONMENTAL IMPACTS	(Applicant's Use) DESCRIBE ENVIRONMENTAL IMPACTS	PAGE NO.	(Applicant's Use) DESCRIBE ENVIRONMENTAL OFFSET PROPOSAL <sup>1</sup>	PAGE NO.	(DNREC Use Only) OFFSET SUFFICIENCY Yes, No or N/A
Air Quality (Applicant to List Below by Parameter)					
SOx, NOx, CO, VOC & PM-10	Increase by 0.12, 4.9, 1.2, 1.1 & 1.7 TPY respectively	Attachment 1	Offset by soybean extraction & refinery closure 0.16, 6.4, 1.6, 1.4 & 2.2 TPY which is 130% offset each	Attachment 1	
Water Quality					
Surface	None – There will be no project related surface water discharge	14,15	None required		
Groundwater	None – The applicant 's impact on the groundwater is regulated by Permit# LTS 5011-87-04	13	None required		
Water Quantity					
Surface	None - There will be no project related surface water discharge	NA	None required		
Groundwater	There will be a beneficial impact through recharge of the Columbia aquifer via spray irrigation	13	None required		
Water Use For:					
Processing	108,201 GPD for boiler steam – Condensate returned to aquifer after treatment	16	None required		
Cooling	187,200 GPD for cooling tower makeup	16	None required		
Effluent Removal	72,000 GPD for scrubber makeup – Returned to aquifer after treatment	16	None required		
Solid Waste	One dumpster load per week to be disposed of a DSWA landfill outside the Coastal Zone	18	None required		
Hazardous Waste	None – There will be no project related hazardous waste	19	None required		
Habitat					
Wetlands	None – No wetlands will be disturbed by the project	20	None required		
Flora Fauna	None – No flora or fauna will be disturbed by the project	20	None required		
Drainage/Flood Control	None – The project is on a flat site where runoff will be absorbed on adjacent agricultural fields	14	None required		
Erosion <sup>2</sup>	None – Erosion control during construction will be in accordance with the Sussex Conservation District's requirements. The project is on a flat site where erosion should not be a problem during normal operation.	14	None required		
Land Use Effects					
Glare	There will be no noticeable effect	22	None required		
Heat	There will be no noticeable effect	22	None required		
Noise	Process equipment and general activities will comply with Regulations Governing the Control of Noise	22	None required		
Odors	A thermal oxidizer will collect gases and vapors & thermally oxidize the at 850 degrees C	22	None required		
Vibration	There will be no noticeable effect	22	None required		
Radiation	There will be no noticeable effect	22	None required		
Electro-Magnetic Interference	There will be no noticeable effect	22	None required		
Other Effects	None	22	None required		
Threatened & Endangered Species	There will be no noticeable effect according to DNREC Division of Fish & Wildlife	20	None required		
Impacts From:					
Raw Material	None	9	None required		
Intermediate Products	None	9	None required		
By-Products	None	9	None required		
Final Products	None	9	None required		

<sup>1</sup> See paragraph I.1.b in "Secretary Assessment"

<sup>2</sup> Construction and normal operation