

Project 6B - Manufacture of fertilizers and nitrogen compounds

Comments:

CATEGORY	FACTOR	COMMENTS
AIR	ammonium nitrate	non-toxic, human health, reference 3
	ammonia	hazardous substance, aquatic life, human health, water quality, reference 1 & 3
	chlorine	hazardous substance, poison, aquatic life, human health, reference 3
	hydrogen chloride (HCl)	hazardous substance, fauna, human health
	heavy metals	reference 2
	cadmium	human health, flora, fauna, soil
	methane (CH ₄)	volatile, greenhouse gas, reference 1
	oxides of nitrogen (NO _x) / N _x O	acid rain, flora, fauna, water, human health
	non-methane volatile organic compounds (NMVOC)	greenhouse gas, volatile, flora, reference 1
	other hazardous substances	
	particle emissions	human health, climate change, historical sites
	odour	human health
	noise	
WATER	ammonium nitrate	non-toxic, human health, reference 3
	ammonia	hazardous substance, aquatic life, human health, water quality, reference 1 & 3
	chlorine	hazardous substance, poison, aquatic life, human health, reference 3
	heavy metals	reference 2
	cadmium	human health, flora, fauna, soil
	nutrients C/N/P	water quality, aquatic life
	salts	
	other hazardous substances	
	biological oxygen demand (BOD)	
	chemical oxygen demand (COD)	
	total organic carbon (TOC)	
	dissolved organic carbon (DOC)	
	suspended solids	
	dissolved solids	
	total solids	
temperature		
change in pH		
CLIMATE	changes in ambient air temperature	
	particle emissions	
	changes in humidity	
	greenhouse gas emissions	NO _x , N _x O
FLORA	changes in natural vegetation	pollutants, project location
	disturbance of aquatic habitat	
	disturbance of plant habitat	
	disturbance of natural vegetation	
	decrease in biodiversity	
	impact of threatened species	
	changes in species population	
	changes in aquatic food web	
	changes in mammal food web	
impact on protected areas		

CATEGORY	FACTOR	COMMENTS
FAUNA	disturbance of wildlife habitat	pollutants, project location
	decrease in biodiversity	
	impact on threatened species	
	changes in species population	
	impact on threatened area	
	changes in mammal food web	
SOIL	soil acidification	heavy metals, other pollutants
	soil contamination	
LANDSCAPE	land use changes	
	visual aspects	
	physical composition	
	impact on sensitive lands	
HISTORICAL MONUMENTS	changes to historical sites	acid rain
HUMAN HEALTH & SAFETY	changes in ambient noise levels	
	changes in disease incidence	
	risk of spills	
	risk of surface water contamination	
	risk of ground water contamination	
	risk of explosions	
CULTURAL HERITAGE	cultural changes	
	land use changes	
	way of life	
SOCIO-ECONOMIC	changes to well being of life	
	changes to quality of life	
	quality of recreational facilities	
	quantity of recreational facilities	
	present use of natural resources	
	potential use of natural resources	
	employment opportunity	
	economic development - transboundary	

References

1. Proceedings of the EMEP Workshop on Emission Inventory Techniques, Regensburg, Germany, 2-5 July, 1991, EMEP/CCC-Report 1/91
2. Economic Commission for Europe Convention of Long-range Transboundary Air Pollution, Task Force on Heavy Metal Emissions, June 1994
3. Economic Commission for Europe, Convention on the Transboundary Effects of Industrial Accidents
4. Economic Commission for Europe, State of Knowledge Report of the UN ECE Task Force on Persistent Organic Pollutants
5. Recommendations to ECE Governments on the Prevention of Water Pollution from Hazardous Substances