

## MINISTRY OF ENERGY AND ENERGY INDUSTRIES TEMPLATE FOR THE ENVIRONMENTAL MANAGEMENT PLAN (EMP)

ENVIRONMEN	<b>NTAL MANAGEMENT PLA</b>	N TEMPLATE
The	completion of <u>ALL</u> sections is mandate	ory!
SECTION ONE (	<b>1): CONTACT DETAILS OF T</b>	HE APPLICANT
Full Name of Applicant:		
Mailing or Postal Address:		
Physical or Residential Address:		
Phone Number:	Fax Number:	Mobile Number:
Email Address:		
Full Name of Alternative Contact Pers		
Fun Name of Alternative Contact Pers	011:	
Phone Number:	Fax Number:	Mobile Number:
I none rumper.	Fax Number.	Mobile Mulliber.
Email Address:		
Signature:		
Date:		

## **SECTION TWO (2): PROPERTY DESCRIPTION DETAILS**

Project/Company/Operator's Name:

**Quarry Location:** 

Area of the Land (in acres):

Land Status (Private or State):

**Relevant Minerals:** 

**Relevant Stakeholders:** 

Mining Activities (development and rehabilitation):

**Proposed Hours of Working and Planned Project Life (in years):** 

**Financial Insurance Data:** 

**Equipment used:** 

Workforce:

SECTION THREE (3): ENVIRONMENTAL ASPECTS RELATING TO THE DEVELOPMENT
Please check ( $$ ) the appropriate boxes where necessary.
N.B: EACH OF THE FOLLOWING QUESTIONS WILL RELATE SPECIFICALLY TO YOUR OPERATION!
1. AIR QUALITY: IMPACTS, MONITORING AND CONTROLS
Air Emission Types:
1.1 What are the various types of air emissions being generated?
□ - Dust/ Particulates (e.g. Sulphur, Mineral Particles etc.)
□ - Smoke
$\Box$ - Gases (e.g. Sulphur Dioxide (SO <sub>2</sub> ), Nitrogen Oxides (NO <sub>x</sub> ) or Ozone (O <sub>3</sub> ) forming smog
□ - Other
If 'other' please specify
Air Emission Sources:
1.2 What are the main sources of air pollutants within the mining development?
- Mineral Particulate Matter/ Dust
□ - Products of Combustion
$\Box$ - Emissions from the vehicles on-site and off-site
$\Box$ - Odours/ Fumes
$\Box$ - Other
If 'other' please specify
1.3 What are the major sources of dust from the quarrying operation?
$\Box$ - Drilling and blasting
□ - Loading and unloading of soil, overburden and mineral/s
$\Box$ - Plant movements
$\Box$ - Processing
□ - Dust blown from the excavation, mounds and stockpiles
$\Box$ - Other
If 'other' please specify

#### **Air Emission Quantities:**

1.4 Based on a percentage (%), how much of the previously selected emission/s is/are produced per day? (Please tick ( $\sqrt{}$ ) the appropriate space provided.)

Emission	Percentages (%)									
	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
Dust/										
Particulates										
Smoke										
Gases										
Other										

**1.5** Based on a range, how far is/are the previously selected emission/s allowed to travel? (Please tick ( $\sqrt{}$ ) the appropriate space provided.)

	Ranges							
Emission	On-site only	As far as the boundary	Up to 1000 feet from the	>1000 feet (Off-site)				
			Boundary (Off-site)					
Dust/ Particulates								
Smoke								
Gases								
Other								

1.6 Based on a frequency, how often is/are the previously selected emission/s produced? (Please tick ( $$	) the appropriate space provided.)
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Emission	Frequencies								
	<1 hour per day	1-3 hours per day	4-6 hours per day	7-9 hours per day	10-12 hours per day	>12 hours per day			
Dust/ Particulates									
Smoke									
Gases									
Other									

Controlling	and N	litigati	on:
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#### 1.7 What planning conditions/ techniques are used?

- □ Water-Spraying of materials
- □ Spraying of haul roads
- $\Box$  Use of Dust Extractors
- $\Box$  Use of Conveyors/ Housing
- $\Box$  Enclosing of fixed plant
- $\square$  Use of tree screens
- $\Box$  Installation of wheel washing
- □ Road Sweeping
- $\Box$  Cyclones
- $\Box$  Wet Collectors
- □ Fabric filters
- $\Box$  Electrostatic precipitators
- $\Box$  Materials handling and storage
- □ Site design
- □ Site Management
- $\Box$  Fixed plant vs. Mobile plant
- $\Box$  Other

If 'other' please specify-

**1.8** How often are these selected planning conditions/ techniques carried out? (Please tick ( $\sqrt{}$ ) the appropriate space provided.)

Condition/				Frequency			
Techniques	Every 1-6	Every 7-12	Every 13-18	Every 19 hours	Every week	Every month	Every Year
	hours	hours	hours	to a day			
Water-							
Spraying of							
materials							
Spraying of							
haul roads							
Installation of							
wheel washing							
Road							
Sweeping							

#### 2. WATER MANAGEMENT

#### Water Pollutants/Contaminants Types:

- 2.1 What are the various potential types of water contaminants being generated?
  - Non-dissolved contaminants:
  - $\Box$  Suspended solids/Turbidity (e.g. Silts and Clays etc.)
  - $\square$  Petroleum Products (e.g. Diesel, Lubricants and Waste Oils etc.)

#### - Dissolved Contaminants:

- $\square$  Heavy metals
- $\Box$  Sulphate
- $\square$  Chloride- salinity
- $\Box$  Alkalis
- $\Box$  Flocculants
- $\Box$  Eutrophicants (e.g. Nitrates, and Phosphates etc.)
- $\Box$  Acids (e.g. Sulphuric Acid)
- $\Box$  Ammonia-based reagents
- $\square$  Process chemicals
- $\square$  Soaps and detergents
- $\square$  Treatment chemicals
- Other Contaminants:
- $\Box$  Heat
- $\Box$  Sewage
- $\Box$  Other

Water Pollutants/ Contaminants Sources:
2.2 What are the main sources of water contaminants within the mining development?
□ - Soil Erosion and water run-off
□ - Washing Procedures
$\Box$ - Water treatment plant activities
$\Box$ - Construction activities
- Waste and Product Handling and storage activities
□ - Recycling facilities
□ - On-site toilet facilities and other sewage facilities
$\Box$ - Minerals present within the site boundaries
Processing plant chemicals
$\Box$ - Dissolution of explosives
□ - Dissolution of excess fertilizers
$\Box$ - Leaching activities
□ - Mobile plant cleaning areas
□ - Non- contact cooling water and other coolant waters
$\Box$ - Other
If 'other' please specify

## Water Pollutants/ Contaminants Quantities:

2.3 Based on a percentage (%), how much of the previously selected contaminant/s is/are produced per day? (Please tick ( $\sqrt{}$ ) the appropriate space provided.)

Pollutant/	Percentages (%)									
Contaminants	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
Suspended										
solids										
Petroleum										
Products										
Heavy metals										
Sulphate										
Chloride-										
salinity										
Alkalis										
Flocculants										
Eutrophicants										
Acids										
Ammonia-										
based reagents										
Process										
chemicals										
Soaps and										
detergents										
Treatment										
chemicals										
Heat										
Sewage										
Other										

2.4 Based on a range, how far is/are the previously selected pollutant/s allowed to travel? (Please tick ( $\sqrt{}$ ) the appropriate space provided.)

Pollutant/Contaminants	Ranges							
	On-site only	As far as the boundary	Up to 1000 feet from the Boundary (Off-site)	>1000 feet (Off-site)				
Suspended solids								
Petroleum Products								
Heavy metals								
Sulphate								
Chloride-salinity								
Alkalis								
Flocculants								
Eutrophicants								
Acids								
Ammonia-based reagents								
Process chemicals								
Soaps and detergents								
Treatment chemicals								
Heat								
Sewage								
Other								

2.5 Based on a frequency, how often is/are the previously selected pollutant/s produced? (Please tick ( $\sqrt{}$ ) the appropriate space provided.)

Pollutant/Contaminants	Frequencies								
	<1 hour per day	1-3 hours per day	4-6 hours per day	7-9 hours per day	10-12 hours per day	>12 hours per day			
Suspended solids		-							
Petroleum Products									
Heavy metals									
Sulphate									
Chloride-salinity									
Alkalis									
Flocculants									
Eutrophicants									
Acids									
Ammonia-based reagents									
Process chemicals									
Soaps and detergents									
Treatment chemicals									
Heat									
Sewage									
Other									

#### Water Monitoring:

#### 2.6 What parameters are used to determine the water quality?

□ - pH

- $\Box$  Dissolved Metals
- □ Total Dissolved Solids
- $\Box$  Total Suspended Solids
- □ Dissolved Oxygen
- □ Organic Materials
- 🗆 Nitrate
- □ Salinity/Chlorides
- $\Box$  Sulphates
- □ Process Chemicals
- $\Box$  Other

If 'other' please specify-\_\_\_\_\_

#### **2.7** How often are these parameters tested? (Please tick ( $\sqrt{}$ ) the appropriate space provided.)

Condition/				Frequenc	y		
Techniques	Every 1-6	Every 7-12	Every 13-18	Every 19	Every week	Every month	Every Year
	hours	hours	hours	hours to a day			
pН							
Dissolved Metals							
Total Dissolved Solids							
Total Suspended Solids							
Dissolved Oxygen							
Organic Materials							
Nitrate							
Salinity/Chlorides							
Sulphates							
Process Chemicals							
Other							

#### 2.8 What water areas are being impacted and therefore monitored?

□ - Surface Waters

 $\Box$  - Groundwaters

 $\Box$  - Adjacent Streams and Rivers

 $\Box$  - Other

If 'other' please specify-\_\_\_\_\_

#### **Preventive and Control Measures:**

# 2.9 What equipment/ procedures are used to mitigate the impacts?

## **Ground Investigation:**

- $\square$  Boreholes grouted or lockable covers installed
- $\square$  Pumped water monitored
- $\square$  Compensation ponds

#### **Operations and rehabilitation:**

- $\square$  Removal and recycling of wastes
- $\hfill\square$  Maintenance and monitoring of on-site sewage treatment facilities
- $\Box$  Proper storage of chemicals
- $\Box$  Bunds
- $\square$  Minimization of Total Disturbed Area
- $\square$  Proper drainage management
- $\Box$  Re-vegetation
- $\Box$  Contouring
- $\square$  Settling ponds
- $\square$  Construction and lining of ditches and water-transfer systems
- $\square$  Lining and covering of storage systems

□ - Proper control and timing between different existing procedures (e.g. Drilling and Priming of blastholes and Re-vegetation and Application of fertilizers.

- $\square$  Improved plant operations
- $\Box$  Other

Treatment options:
2.10 What treatment options are available?
□ - Desilting lagoons and ponds (settling ponds)
□ - Wetlands (natural ecosystems capable of removing dissolved metals)
$\Box$ - Clarifiers
$\Box$ - Filter presses
$\Box$ - Chemical treatment options
$\Box$ - Oil-water separators
□ - Precipitation (using lime, soda and other chemicals) followed by solid-liquid separation
$\Box$ - Desalination
□ - Reverse Osmosis
$\Box$ - Neutralisation with acid/alkalis
$\Box$ - Ion exchange
$\Box$ - Cooling ponds
$\Box$ - Other
If 'other' please specify-
3. ENVIRONMENTAL NOISE/ VIBRATION
Noise/Vibration Types:
3.1 What are the various types of noise/vibrations within the quarry?
□ - Heavy Equipment Operations
$\Box$ - Rock Crushers
□ - Screening Systems
□ - Trucking and Transportation
□ - Material Processing Systems
$\Box$ - Gas Compressors
□ - Gas Treatment Facilities
□ - Power Generation Facilities
$\Box$ - Other
Other     If 'other' please specify

3.2 Where is noise/	vibration generated from within your operation (i.e. the source of noise/vibration)?
	Overburden stripping and replacement
	straction and movement within the site
🗆 - Mineral P	rocessing and loading
	off-site in road-going trucks
□ - Other	
f 'other' please specify	
1 1 2	
Noise Intensity:	
	pel (dB) level how much noise is produced?
□ - <20	
□ - 21-40	
□ - 41-60	
□ - 61-80	
□ - 81-100	
□ - 101-120	
□ - 121-140	
□ - >140	
3.4 Based on a rang	e, how far does the noise from the operation travel up to?
🗆 - Maintaine	d on-site
$\Box$ - Only up to	the boundary
$\Box$ - Up to 100	Oft. from the boundary
□ - >1000ft. f	rom the boundary
3.5 Based on a freq	uency, how often is the noise produced?
□ - Once per	
$\Box$ - 2-3 times	
□ - 4-5 times	
$\Box = -J$ times	

Noise/Vibration Mitigation:
3.6 What noise/vibration mitigation procedures are implemented?
□ - Plant-replacement programmes (replacement of nosier plant with quieter one)
□ - Replacing steel decks on vibrating screens with plastic or rubber decks
□ - Lining hoppers and chutes internally with rubber or similar resilient material
□ - Applying silencers to exhaust stacks and blower or fan inlets and outlets
$\Box$ - Reducing vibration area (e.g. from areas that are loose or touching or attached to vibrating sources such as screens)
□ - Introducing stiffening or dampening material, or by adding mass to vibrating structures
$\Box$ - Cross-bracing
$\Box$ - Use of silencers
□ - Heavy and complete enclosure of the source of noise (using noise insulation and/or absorption materials)
$\Box$ - Screen barrier between source and receiver
$\Box$ - Other
If 'other' please specify-
4. IDENTIFICATION, ASSESSMENT AND MITIGATION OF LAND/VISUAL IMPACTS
Land/Visual Type:
4.1 What type of visual impact is experienced?
□ - Visual Intrusion (pre-existing view encroached upon by new element of poorer visual quality)
□ - Visual Obstruction (element block and prevents visibility to the pre-existing view)
$\Box$ - Other
If 'other' please specify

#### Land/ Visual Sources:

4.2 What are the main sources of potential land/visual impact due to quarrying?

🗆 - Quarry landforms (e.g. Storage Mounds, Bunds, Stockpiles, Waste Heaps, Quarry Faces, Haul Roads, Embankments etc.)

□ - Mobile plant (e.g. Processing plant, Vehicles, Drill Rigs etc.)

□ - Built structures (e.g. Storage Hoppers, Crushing and Screening plant, Washing and Dewatering plant, Walkways and Conveyors,

Concrete plant, Exhaust Stacks etc.)

□ - Long range indicators of the quarrying industry (e.g. Air Pollution, Dust Deposits, Mud on roads, Lighting etc.)

 $\Box$  - Other

If 'other' please specify-\_\_\_\_\_

#### Land/ Visual Quantities:

**4.3** Based on a percentage (%) how much of the land operated on is currently changed from its original state (i.e. before any operation procedures begun)?

🗆 - 1-10

□ - 11-20

- □ 21-30
- □ 31-40
- □ 41-50
- □ 51-60 □ - 61-70
- □ 71-80
- □ 81-90
- □ 91-100

#### 4.4 Based on a range, how far are the visual impacts from quarry operations seen?

 $\Box$  - On-site only

 $\Box$  - As far as the boundary

 $\Box$  - 1000 feet from the boundary

 $\Box$  - >1000 feet from the boundary

#### 4.5 What is the magnitude of the visual impact?

- Spatial impact:- Duration:- Permanence:- Likelihood of its recurrence:- Local- Short-term- Reversible- Cumulative- Regional- Medium-term- Irreversible- Isolated- Long-term- Long-term- Short-term- Short-term

#### **Mitigation of Land/Visual Impact:**

## 4.6 What mitigation measures are implemented to deal with land/visual impacts?

#### **Concentration of visual impact:**

- □ Mineral planning zoning strategy (new quarry units sited within a limited geographic area)
- □ Spatial concentration of particular elements such as processing plant, haul roads, waste dumps etc.

#### Concealment of source of visual impact:

- $\Box$  Belt of trees used to obscure of fending view
- $\hfill\square$  Grass-covered earth bund used to obscure offending view
- $\square$  Perimeter screening
- □ Improvement in design and operational modifications (e.g. placing processing plant in deepest part of the quarry)
- $\square$  Minimize the number of viewers as well as the duration of visibility
- $\square$  Improved extraction techniques

#### **Innovative techniques:**

- $\hfill\square$  Understanding and cooperation developed with local community
- $\Box$  Improve familiarity by construction of perimeter viewing platforms with interpretation boards
- $\square$  Compensatory local landscape improvements

#### Practical measure for mitigation:

- $\Box$  Site selection
- $\square$  Method of working
- □ Screening
- $\Box$  Camouflage
- Haulage
- □ Housekeeping
- $\Box$  Other

If 'other' please specify-\_\_\_\_\_

#### **Restoration of the Landscape:**

#### 4.7 What restoration procedures/options are implemented?

- □ Recreation
- □ Aquaculture
- $\Box$  Built environment
- $\square$  Commercial forestry
- $\square$  Nature Conservation
- $\Box$  Other

#### **5. WASTE MANAGEMENT**

#### Waste Types/ Sources:

#### 5.1 What are the main types/ sources of waste?

#### Mineral waste:

- $\Box$  Overburden and interburden (rocks and soils)
- □ Process wastes (discards from screening, crushing and other primary mineral-processing plants)
- $\Box$  Sub-standard or unmarketable materials

#### **Operational waste:**

- $\square$  General office waste
- $\Box$  Waste oils
- □ Used filters
- $\Box$  Tyres
- 🗆 Scrap
- $\Box$  Other

If 'other' please specify-\_\_\_\_\_

#### Waste Quantities:

# 5.2 Based on a percentage (%), how much of the previously selected waste/s is/are produced per day? (Please tick ( $\sqrt{}$ ) the appropriate space provided.)

Waste Type/					Percenta	nge (%)				
Source	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
Overburden and										
interburden										
Process wastes										
Sub-standard or										
unmarketable										
materials										
General office										
waste										
Waste oils										
Used filters										
Tyres										
Scrap										
Other										

5.3 Based on a range, how far is/are the previously selected waste/s seen? (Please tick ( $\sqrt{}$ ) the appropriate space provided.)

Waste Type/ Source			Ranges	
	On-site only	As far as the boundary	Up to 1000 feet from the Boundary (Off-site)	>1000 feet (Off-site)
Overburden and interburden				
Process wastes				
Sub-standard or unmarketable materials				
General office waste				
Waste oils				
Used filters				
Tyres				
Scrap				
Other				

### 5.4 Based on a frequency, how often is/are the previously selected waste/s produced? (Please tick ( $\sqrt{}$ ) the appropriate space provided.)

Waste Type/ Source			Frequ	iencies		
	<1 hour per day	1-3 hours per	4-6 hours per	7-9 hours per	10-12 hours per	>12 hours per
		day	day	day	day	day
Overburden and interburden						
Process wastes						
Sub-standard or						
unmarketable materials						
General office waste						
Waste oils						
Used filters						
Tyres						
Scrap						
Other						

Waste Disposal:
5.5 How is the waste disposed of?
$\Box$ - Landfill
□ - Incineration (combustion/burning)
□ - Decomposition/Composting (anaerobic digestion)
$\Box$ - Recycling
$\Box$ - Other
If 'other' please specify-
Waste Mitigation:
5.6 What waste-retention structures are used?
Spoil heaps
$\Box$ - Backfills
□ - Lagoons (liquid tips or settling ponds)
$\Box$ - Stockpiles
$\Box$ - Amenity banks
$\Box$ - Other
If 'other' please specify-
6. BIODIVERSITY
Biodiversity Types:
6.1 What are the various types of biodiversity (animals and plant species) present in the area?

#### 6.2 What endangered/ threatened/ vulnerable animal species of Trinidad and Tobago are located within the area?

 $\Box$  - Ocelot

🗆 - Pawi

□ - Porcupine

- $\Box$  Yellow Headed Parrot
- $\Box$  Blue and Yellow Macaw
- $\Box$  Matte
- 🗆 Tayra
- $\square$  Red Howler Monkey
- $\Box$  Wild Hog (Quenk)
- $\Box$  Golden Tree Frog
- □ Crab-eating Racoon
- 🗆 Agouti
- $\Box$  Armadillo
- $\square$  Red Brocket Deer
- 🗆 Tatoo
- 🗆 Lappe
- 🗆 Manicou
- 🗆 Iguana
- $\Box$  Scarlet Ibis
- $\square$  Red-Billed Whistling Duck
- $\square$  Green Anaconda
- $\Box$  Other

#### **Biodiversity Quantities:**

6.3 Based on a population size how much of each of the previously selected endangered/ threatened/ vulnerable species are present in the area?

Animal	Population Size
Ocelot	
Pawi	
Porcupine	
Yellow Headed Parrot	
Blue and Yellow Macaw	
Matte	
Tayra	
Red Howler Monkey	
Wild Hog (Quenk)	
Golden Tree Frog	
Crab-eating Racoon	
Agouti	
Armadillo	
Red Brocket Deer	
Tatoo	
Lappe	
Manicou	
Iguana	
Scarlet Ibis	
Red-Billed Whistling Duck	
Green Anaconda	

#### **Conservation/Protection:**

#### 6.4 How is the biodiversity conserved/protected in the area?

- □ Through different agencies (e.g. EMA, Forestry Division, National Parks Division)
- □ Proper management and monitoring on-site
- □ Public awareness/education/information/advice
- $\Box$  Research/ Data collection
- $\Box$  Other

Restoration:	
6.5 How is land managed to ensure restoration/rehabilitation and therefore benefits for biodiversity?	
$\square$ - Reafforestation/ Revegetation	
$\square$ - Agriculture	
$\square$ - Nature Reserves	
$\Box$ - Aquaculture	
$\Box$ - Other	
If 'other' please specify	
7. HUMANS/COMMUNITY	
Community Type:	
7.1 What communities are situated nearby and are therefore affected by the operation? (Give the name o	f the settlement and the its type
(i.e. town, village etc.).	
7.2 What type of settlement pattern exists in the nearby community?	
$\square$ - Dispersed	
$\square$ - Ribbon/Linear	
$\square$ - Nucleated/Clustered	
Community Quantities:	
7.3 How many homes are affected by the operation?	
$\square - 0$	
$\Box - 1-10$	
□ - 11-20	
□ - 21-30	
□ - 31-40	
□ - 41-50	
□ - 51-60	
□ - 61-70	
□ - 71-80	
□ - 81-90	
□ - 91-100	
□ - >100	

7.4 Based on a range, how far away are the communities affected by the operation?

□ - <1000m

🗆 - 1000-2000m

□ - 2001-3000m

🗆 - 3001-4000m

🗆 - 4001-5000m

 $\Box$  - >5000m

#### **Impacts:**

7.5 What operations cause impacts onto the nearby communities (source of the impacts)?

- □ Mining techniques (e.g. Blasting, Application of toxic chemicals, and Heating chemicals)
- $\Box$  Dangers from chemicals (e.g. Lead, Asbestos, etc.)
- □ Human error (e.g. Truck accidents, Ruptured containment liners, Poorly engineered storages of waste etc.)

 $\Box$  - Air and water transport of pollution

 $\Box$  - Other

If 'other' please specify-\_\_\_\_\_

#### **Monitoring:**

7.6 Are surveys/questionnaires used to record the human/community complaints?

#### **Mitigation:**

7.7 What procedures are used to mitigate impacts caused onto the communities?

- $\Box$  Aid from regulatory agencies (establish risks and monitor pollutants etc.)
- $\square$  Provide information on health risks
- □ Engage local communities
- $\Box$  Heath and safety management
- $\Box$  Other

7.8 What health and safety issues are in place to minimize the effect caused onto humans (e.g. protective gear,)?	
3. TRAFFIC	
Traffic Type:	
8.1 What type of traffic is experienced?	
$\Box$ - On-site	
$\Box$ - Off-site	
8.2 What is being transported?	
$\Box$ - Overburden	
$\Box$ - Minerals	
□ - Discarded Materials	
□ - Mineral Products (e.g. Coated roadstone, bricks, blocks, cement, etc.)	
$\Box$ - Supplies and Services (e.g. Fuel, bitumen, etc.)	
$\Box$ - Other	
f 'other' please specify	
Fraffic Source:	
8.3 What type of vehicle is used?	
$\Box$ - Trucks	
$\Box$ - Trains	
$\Box$ - Ships	
$\Box$ - Barges	
$\Box$ - Conveyors	

 $\square$  - Load-and-carry plant

□ - Cableways

 $\Box$  - Other

	t <b>raffic mode/transport network is used?</b> Road
	Inland waterway
	Rail systems
	Conveyor
	Pipelines Other
If 'other' plea	
<b>Fraffic Qu</b>	
	many modes of transport are involved in the operation?
	6-10 11-15
	16-20
8.6 Based	>20 I on a range, how far away must the vehicles travel from the quarry site in order to reach their final destination?
8.6 Based	l on a range, how far away must the vehicles travel from the quarry site in order to reach their final destination?
8.6 Based 	l on a range, how far away must the vehicles travel from the quarry site in order to reach their final destination?
8.6 Based  8.7 Based 	I on a range, how far away must the vehicles travel from the quarry site in order to reach their final destination?
8.6 Based 	I on a range, how far away must the vehicles travel from the quarry site in order to reach their final destination? I on a frequency, how often do these vehicles travel from the quarry site? Once a day Twice a day Three times a day
8.6 Based 	l on a range, how far away must the vehicles travel from the quarry site in order to reach their final destination? l on a frequency, how often do these vehicles travel from the quarry site? Once a day Twice a day Three times a day > Three times a day
8.6 Based 	I on a range, how far away must the vehicles travel from the quarry site in order to reach their final destination?  I on a frequency, how often do these vehicles travel from the quarry site? Once a day Twice a day Three times a day > Three times a day
8.6 Based 	I on a range, how far away must the vehicles travel from the quarry site in order to reach their final destination?  I on a frequency, how often do these vehicles travel from the quarry site? Once a day Twice a day Three times a day > Three times a day > Three times a day : a re the best-practice measures that are put in place to minimize the environmental effects of traffic?
8.6 Based 	I on a range, how far away must the vehicles travel from the quarry site in order to reach their final destination?  I on a frequency, how often do these vehicles travel from the quarry site? Once a day Twice a day Three times a day > Three times a day : : : : : : : : : : : : : : : : : : :
8.6 Based 	I on a range, how far away must the vehicles travel from the quarry site in order to reach their final destination? I on a frequency, how often do these vehicles travel from the quarry site? Once a day Twice a day Three times a day > Three times a day > Three times a day Curve times that are put in place to minimize the environmental effects of traffic? Curve times a distance between operations and potential receptors
8.6 Based 	I on a range, how far away must the vehicles travel from the quarry site in order to reach their final destination? I on a frequency, how often do these vehicles travel from the quarry site? Once a day Twice a day Three times a day > Three times a day > Three times a day : : : : : : : : : : : : : : : : : : :
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8.6 Based 	I on a range, how far away must the vehicles travel from the quarry site in order to reach their final destination?  I on a frequency, how often do these vehicles travel from the quarry site? Once a day Twice a day Three times a day > Three times a day > Three times a day  i care the best-practice measures that are put in place to minimize the environmental effects of traffic? Identification of who/what affected Increasing the distance between operations and potential receptors Moving traffic routes away from the site boundary Using other modes of transport that is more environmentally friendly (e.g. Railways) Avoiding the problem (e.g. Using suitable/preferred routes, areas where no inconvenience is caused to people or resources etc.)
8.6 Based 	I on a range, how far away must the vehicles travel from the quarry site in order to reach their final destination?  I on a frequency, how often do these vehicles travel from the quarry site? Once a day Twice a day Three times a day > Three times a day > Three times a day : : : : : : : : : : : : : : : : : : :
8.6 Based 	I on a range, how far away must the vehicles travel from the quarry site in order to reach their final destination? I on a frequency, how often do these vehicles travel from the quarry site? Once a day Twice a day Three times a day > Three times a day > Three times a day three times a day Care the best-practice measures that are put in place to minimize the environmental effects of traffic? Identification of who/what affected Increasing the distance between operations and potential receptors Moving traffic routes away from the site boundary Using other modes of transport that is more environmentally friendly (e.g. Railways) Avoiding the problem (e.g. Using suitable/preferred routes, areas where no inconvenience is caused to people or resources etc.) Taming the vehicle (e.g. Ensuring the condition of the vehicle is up to standard, including maintenance, freedom from mud and dirt ar