



**Environmental
Protection
Agency**

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Operation Permit

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

Reference No.:	20181204-DMQRE
Fee:	Large (C2)–US\$2,000 per year
Fee Paid:	US\$10,000: Five (5) Years (July, 2021 to June, 2026)

Addressee: Mr. Danley Major,
Proprietor
Major Stone Quarries
Lot 101, Pike Street
Kitty
Georgetown.



Activity: Operation of a Quarry

Mr. Danley Major, trading and operating under the name Major Stone Quarries, hereinafter referred to as the “Permit Holder”, is hereby authorised in accordance with the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, to operate a quarry located at Block No. GS23: M-1016/MP/000/18 Essequibo River, Region 7, hereinafter referred to as the “Project”, in the manner indicated in the Application submitted on December 04, 2018, and subject to the terms and conditions set forth herein under the Environmental Protection Act, Cap. 20:05, existing and/or forthcoming regulations made under the said Act, and/or any other applicable laws, best practices, standards, guidelines, codes of practice relevant to this project.

The Permit Holder, His Servants, Agents and/or Sub-Contractor(s) shall comply with the following Terms and Conditions:

1.0 GENERAL

- 1.1 Submit within three (3) months after the date of issuance of the Operation Permit an Environmental Management Plan to the EPA for its review and approval; including Monitoring and Emergency Plan, and the identification of any potential environmental impacts, human risks and adequate

Operation Permit - Ref. No. 20181204-DMQRE

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

mitigation measures to manage/ reduce potential environmental impacts to biodiversity, water quality, air quality, and soil degradation to acceptable levels.

- 1.2 Notify the Agency in writing and obtain its approval for ANY proposed changes to the operation of the Quarry **at least fourteen (14) days prior** to making the change. The notification shall contain a **description of the proposed change in operation and/or construction**. It is not necessary to make such a notification if **an Application to vary** this permit has been made and the application contains a description of the proposed change. In this condition **'change in construction'** means a change in the nature or functioning, or an extension, or any additional installation, which may have consequences for the environment, including but not limited to the following:
 - I. Changes in construction, structure, layout of the facility;
 - II. Installation of new and/or changes to equipment, machine, apparatus, mechanism, system or technology serving the facility or operation;
 - III. Any technology installed at the facility from which effluent may be discharged; and
 - IV. Any other circumstance prescribed by Regulation 20(3) of the Environmental Protection (Authorisations) Regulations.
- 1.3 Ensure mining activities do not occur outside the boundaries of **Point A**, located at geographical coordinates of longitude **58°36'51.833"W** and latitude **6°9'24.426"**, thence at true bearing of **90.18°**, for a distance of approximately 1 mile **475.255** yards, to **Point B**, located at geographical coordinates of longitude **58°35'45.276"W** and latitude **6°9'24.221"**, thence at true bearing of **180.42°**, for a distance of approximately 1 mile **541.777** yards, to **Point C**, located at geographical coordinates of longitude **58°35'45.773"W** and latitude **6°8'16.08"**, thence at a true bearing of **269.93°**, for a distance of approximately 1 mile **464.202** yards, to **Point D**, located at geographical coordinates of longitude **58°36'51.998"W** and latitude **6°8'16.001"**, thence at true bearing of **.14°**, for a distance of approximately **551.33** yards, to the point of commencement at **Point A**.
- 1.4 Maintain all demarcated boundary limits for the site claim and the periphery of the concession as prescribed by the Guyana Geology and Mines Commission (GGMC), using signage, fences or other means and more fully in keeping with the description in the Notice of Intention to Grant Mining Permit (Medium Scale), dated January 24, 2019.

Operation Permit - Ref. No. 20181204-DMQRE

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

- 1.5 Maintain a non-extractable, vegetated buffer zone at least **one hundred and fifty (150) meters** wide as follows:
 - II. Between your mining blocks and other different contiguous land-use activities;
 - II. Around the mine site;
 - III. Around the property boundary; and
- 1.6 Ensure proper signage and security measures to keep unauthorized persons from accessing restricted and high-risk areas are maintained at all times.
- 1.7 Any other developmental activities which may significantly affect the environment apart from the activities covered by this Permit (blasting, extraction, processing and storage of quarry materials) are strictly prohibited without prior approval from the EPA.
- 1.8 Ensure that transportation of quarry materials by tugs and/or barges to and from the project site does not encumber traffic on the Essequibo River, and is done in accordance with the requirements of the **Maritime Administration Department**.
- 1.9 Adhere to the stipulations within **the Mining Act, No. 20 of 1989, the Mining Regulations including the Mining (Amendment) Regulations, 2005, the Explosives Act, Cap 16:06, the Blasting Operations Act, Cap 65:03, and Regulations of the Maritime Administration Department of the Ministry of Public Infrastructure.**
- 2.0 EMPLOYEES, OCCUPATIONAL HEALTH AND SAFETY**
 - 2.1 Adhere to the requirements of **the Occupational Safety and Health Act, Cap. 99:01, Laws of Guyana.**
 - 2.2 Provide Employees with training on: good environmental management practices; occupational health and safety; and their obligations under this Permit on a regular basis.
 - 2.3 Prepare and maintain a training file for all employees and third-party contractors, which shall be available upon Officers' request and submitted with the Annual Report to the EPA.
 - 2.4 Employees shall at all times be well protected and equipped with Personal Protective Equipment relevant to the occupational tasks during operation. These Personal Protective Equipment (PPE) must include but not be limited to:

Operation Permit - Ref. No. 20181204-DMQRE

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

- I. Safety helmets;
 - II. Protective respiratory devices
 - III. Safety boots with ankle support;
 - IV. Gloves with reinforced palms and fingers; and
 - V. Tightly fitted safety goggles.
- 2.5 Prepare and maintain an employee log of distribution of Personal Protective Equipment (PPE).
- 2.6 Provide and maintain adequate fire protection measures, in accordance with guidelines established by the Guyana Fire Service.
- 3.0 VEGETATION CLEARING AND TOP SOIL STRIPPING**
- 3.1 Maintain natural vegetative cover as far as practical, especially in the vicinity of steep slopes occurring at project site and re-vegetate areas from which vegetation were removed.
- 3.2 Ensure vegetative debris is incorporated and stored with top soil to keep it active for reuse in site reclamation. In addition, practical measures, such as growing of vegetation, such as, shrubs and grasses on stockpiles of topsoil should be employed to reduce erosion, and dust nuisance to surrounding ecosystems.
- 3.3 Ensure that topsoil cleared from working areas is stripped carefully and reused immediately for rehabilitation of worked areas. Where reuse cannot be accomplished immediately, the topsoil must be stockpiled in a suitable storage site until such time for reuse.
- 3.4 Store overburden stockpiles away from the drainage system at least 200 meters away from any water courses. Runoff from this overburden must be directed to the sedimentation/settling pond for treatment before discharge.
- 3.5 Where possible, topsoil should be placed directly onto an area being rehabilitated to reduce double handling of soil.
- 3.6 Ensure that all topsoil is kept separate from all overburden and gravel for use as backfill during progressive reclamation. Topsoil should be replaced in its natural sequence during reclamation activities.
- 3.7 The storage of topsoil (overburden) within three meters (3m) of natural vegetation or mine face is strictly prohibited. Top soil and vegetation must be carefully stripped and stockpiled in an allocated area marked by a sign, so that it can be used for reclamation and re-vegetation as mining finishes.

Operation Permit - Ref. No. 20181204-DMQRE

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

- 3.8 Ensure that sediment control structures such as soak-aways, settlement/water detention ponds and silt fences, are implemented at the site(s).
- 3.9 Maintain the integrity of areas where riparian vegetation is located to aid in mitigating erosion/sedimentation impacts at the site.
- 3.10 Maintain the integrity of areas where riparian vegetation is located to aid in mitigating erosion/sedimentation impacts at the site.
- 3.11 Consider the weather pattern before initiating major earthworks. Monitor areas of exposed soil during periods of heavy rainfall.
- 3.12 Take necessary precautions to avoid soil compaction, erosion, rutting, siltation and sedimentation during operation by limiting the size of the disturbed area, slope length and gradient, and the duration of soil exposure.

4.0 DRILLING AND BLASTING

- 4.1 Submit a detailed **Drilling and Blasting Plan**, approved by the Guyana Geology and Mines Commission, within **three (3) months** after the issuance of the Permit.
- 4.1 Adhere to the protocols of the Drilling and Blast Plan; any modification of the said Plan must be approved by the Commission and submitted to the Agency within **two (2) weeks** from date of approval.
- 4.2 Ensure the appropriate blast design parameters are in place prior to the actual blasting. Attain minimum ground vibration by the utilisation of:
 - Appropriate delay intervals for charge ignition.
 - Appropriate pattern.
 - Orientation of blast holes.
 - Confinement of the charge.
- 4.3 Ensure secondary blasting is avoided as much as possible, rather, drop balling, using a heavy mass operated by a dragline or any other appropriate best practise should be considered.
- 4.4 Employ a drilling and blasting supervisor, who is certified and licensed by the Guyana Geology and Mines Commission (GGMC).
- 4.5 Ensure that a review of the blast design is undertaken where necessary including the size of the Maximum Instantaneous Charges (MICs) and detonating sequence and that the correct stemming is in place.

Operation Permit - Ref. No. 20181204-DMQRE

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

- 4.6 Ensure that all measures such as the use of deck charges are utilized to reduce ground vibrations.
- 4.7 Ensure the use, storage, transport, handling, and general management of explosives are done in accordance with relevant laws and regulations including the **Explosives Act, 1989**, and subsequent amendments and the requirements of the Guyana Geology and Mines Commission and the Guyana Police Force.
- 4.8 Ensure that all sites are evacuated and guarded before shots are fired. A distinctive **audible warning signal** must be given before firing and at the all-clear. In addition, notify nearby communities and homesteads of blasting times.
- 4.9 After entering Blast radius any person experiencing sudden acute effects of coughing, shortness of breath or irritation of the mucous membranes of the eyes, nose or throat following post-blast Nitric Oxide (NOx) events must be examined by a medical practitioner without delay, even if no NOx smell was noticed or symptoms are mild.
- 4.10 Blast Pattern should be allowed a "Post Blast Fume Dispersion" time of 30-40 minutes to allow prevailing winds or air currents enough time to readily dilute and dissipate to the atmosphere any gases generated in open pit blasting before the Re-entry of Personnel to this area.
- 4.11 After the firing of Blast pattern a Post Blast inspection must be conducted by a Certified Blaster/Shotfirer to identify any potential hazards or evidence of a misfire and/or the associated corrective action required to make the area safe before an "ALL Clear" is given prior to personnel and/or equipment being allowed back into blast radius.

5.0 CRUSHING PLANT

- 5.1 Ensure that the crushing plant and ancillary equipment are operated in strict compliance with the manufacturer's specifications.
- 5.2 Implement well-designed sprinklers located at strategic points to contain/reduce the level of fugitive dust being emitted into the environment.
- 5.3 The unloading area of crushers and conveyor belts are to be enclosed and provided with a dust suppression system.
- 5.4 Ensure at all times crushing equipment is secured to a reinforced base so as to reduce the level of vibration and noise emitted from this equipment.

Operation Permit - Ref. No. 20181204-DMQRE

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

6.0 ROADS

- 6.1 The running surface of the road should be crowned with a compacted layer of material to prevent excessive surface run-off.
- 6.2 Establish good drainage on both sides of the road to catch and direct water to the local drainage system.
- 6.3 In addition, the road should be soaked as needed in areas close to housing to not exceed ambient dust conditions.
- 6.4 Install adequate and appropriate road signage with provisions for safe line of sight along all access roads and tracks. Signs should inform users of dangerous bends, crossing of haul trucks, vehicle speed limits, etc.
- 6.5 Ensure that activities as they relate to operation and maintenance of roads, drainage ditches, culverts and or berms, etc. are done in a manner that results in minimal impact on public health and the environment.
- 6.6 Ensure that all reasonable and practical measures such as the provision of turnout drains at regular intervals are implemented to prevent erosion of roads.

7.0 WATER QUALITY MANAGEMENT

- 7.1 Adhere to the provisions of the **Environmental Protection (Water Quality) Regulations, 2000**.
- 7.2 Construct and maintain the settling ponds at the project site. The pond must allow for maximum retention time of waste water to allow for settling of suspended solids and natural degradation of possible contaminants prior to water being released to the natural environment.
- 7.3 Maintain the integrity of the existing waterways at all times. Discharges from sediment ponds or the operation into the **Essequibo River** and/ or surrounding environment shall be in accordance with the Guyana National Bureau of Standards Interim Guidelines for Industrial Effluent Discharge into the Environment, International Finance Corporation (IFC) US EPA and World Bank Water Quality Standards. The following maximum allowable limits shall not be exceeded:

Operation Permit - Ref. No. 20181204-DMQRE

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

Parameters	Maximum Allowable Limits	Frequency of Monitoring
pH	5.0 - 9.0	Bi-Annual
Temperature	< 40 °C	Bi-Annual
Biochemical Oxygen Demand (BOD)	< 50 mg/L	Bi-Annual
Chemical Oxygen Demand (COD)	< 250 mg/L	Bi-Annual
Total Suspended Solids (TSS)	< 50 mg/L	Bi-Annual
Oil and Grease	< 20 mg/L	Bi-Annual
Turbidity	<50 NTU	Bi-Annual
N as NH ₃	<50mg/L	Bi-Annual

- 7.4 Monitor the water quality for the parameters listed in 7.3 above, on a biannual basis, (once in the wet season and once in the dry season). Grab samples should be obtained from the following sample points:
- At all final point(s) of discharge of the quarry into the Essequibo River or existing waterway;
 - Fifteen (15) meters** upstream of each discharge point; and
 - Fifteen (15) meters** downstream each discharge point.
- 7.5 Ensure that constructed cut-off drains and storm water discharge into a forested or vegetated zone which will act as a natural filter before the drainage waters enter the river.
- 7.6 Direct all waste lines and drains carrying grease, fats, or culinary oil, or similar waste products from the kitchen area into one or more grease trap interceptors. All required grease trap interceptors shall comply with the following:
- Be constructed of durable, corrosion-resistant materials and have water-tight covers securely fastened in place.
 - Have a flow rate sufficient to handle the maximum demand of the connected system.
 - Be installed at strategic locations to allow accessibility for convenient removal of the lid and internal contents.
 - Be designed and installed with proper venting to avoid becoming air bound.
 - Be properly cleaned and maintained according to the manufacturer's recommended frequency.
- 7.7 Install sediment control structures such as sediment traps, silt fences and screens to prevent the inflow of sediments to surface water.

Operation Permit - Ref. No. 20181204-DMQRE

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

- 7.8 Implement all necessary measures to reduce turbidity and the release of contaminants from re-suspension of sediments in the water column and from exposure of sediments to higher oxygen levels.
- 7.9 Ensure that waste/spoil piles are surrounded by perimeter berms to manage discharges of sediment.
- 7.10 Construct and maintain a good drainage system capable of handling the probable maximum precipitation storm event at all facilities.
- 7.11 As far as possible, divert surface water runoff from higher mine benches to prevent it from reaching lower workings. Where possible, strategically place low permeability materials to restrict water flow into mining areas.
- 7.12 Domestic waste water shall not be discharged directly into watercourses. Install a filter treatment system at the domestic water discharge point(s) for further treatment before discharge.
- 7.13 Install, operate and maintain oil/water separator(s) at repair workshop and fuel storage and handling areas.
- 7.14 Conduct an assessment to determine the status of groundwater levels in the vicinity of the mining concession within the **first year** after commencement of the Quarrying activities. The assessment shall present baseline information on water levels, flow and quality, amongst other groundwater parameters, for the continuous monitoring of groundwater within the concession.
- 7.15 Runoff from roads, stockpile areas, etc., should not be discharged directly to natural water ways such as the Essequibo River and/or creek tributaries within or contiguous to the Project site.

8.0 HAZARDOUS MATERIAL / WASTE MANAGEMENT

- 8.1 Adhere to the provisions of the **Environmental Protection (Hazardous Waste Management) Regulations, 2000.**
- 8.2 Prepare and submit to the Agency no later than **forty-five (45)** days after the end of the operating year, a report relating to the activities for the previous year. The report shall include:
 - I. The name, location and type of facility.
 - II. Types and quantities (in metric units) of hazardous waste generated.
 - III. Manner of storage, use, any applied treatment standards/methods and disposal of these substances.

Operation Permit - Ref. No. 20181204-DMQRE

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

- IV. Data concerning off-site shipments of waste, i.e. local disposal facility utilised, country to which hazardous waste was shipped, purpose of shipment and amount of waste shipped.
- V. A summary of any accidents that may have occurred and any action taken.
- VI. Any waste minimisation efforts undertaken by your facility for hazardous material/waste.
- VII. Any other matter the Agency may require.

The Agency considers all materials listed in Schedules I and II of the **Environmental Protection (Hazardous Wastes Management) Regulations, 2000**, to be hazardous. (Please see attached list of Hazardous Waste to be controlled and form for reporting, on the above-mentioned information.)

- 8.3 Notify the Agency of the company's intention to utilise any hazardous chemicals at the operation site and/or submit the approvals obtained from the **Guyana Geology and Mines Commission (GGMC)** and/or **Pesticides & Toxic Chemicals Control Board (PTCCB)** for the use of such chemicals.
- 8.4 Obtain, under the Pesticides and Toxic Chemicals Regulations, a separate licence for the use of poisonous substances.
- 8.5 All hazardous materials should be stored in accordance with their specific Material Safety Data Sheet (MSDS).
- 8.6 Establish and maintain a register of hazardous materials or chemicals at the operations sites along with the Material Safety Data Sheet (MSDS). The register should be made available to the EPA upon request and available to all personnel.
- 8.7 Ensure that all fuel or hazardous materials and waste are stored away from ignition sources and have **"No Smoking"** signs posted where fuel is handled or stored.
- 8.8 Ensure all potential spills of fuel, oil, or other hazardous materials are prevented or cleaned up in a safe environmental manner.
- 8.9 Maintain emergency spill cleanup kits and equipment on site for response to potential spills.
- 8.10 Refrain from draining fuel/lubricants including used/waste oils of any quantity from equipment onto the ground or into waterways.
- 8.11 Petroleum/chemicals containers must be suspended or placed on stands so that leaks are easily identifiable. All chemical storage containers should be kept in

Operation Permit - Ref. No. 20181204-DMQRE

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

well-sealed and individually labeled containers and properly stored in an impervious and well-ventilated room/bond.

- 8.12 Take the necessary precautionary measures during the transport and use of fuel and other chemicals/hazardous materials. In addition, implement a programme to ensure regular and preventative maintenance of machinery and equipment to prevent leaks and minimize air emissions and hydrocarbon releases.
- 8.13 Construct and maintain adequate containment with an impervious surface for the storage and handling of all hazardous materials, oils, lubricants, etc. Containment should be constructed to store 110% of the total volume of the largest tank. Oil-water separators must be installed where necessary.

9.0 FUEL HANDLING AND STORAGE

- 9.1 Fuel shall at all times be stored above-ground, in a cool, dry place and away from ignition sources. The following shall be posted on all fuel tank(s):
- i. 'No Smoking'
 - ii. Type of fuel stored
 - iii. Capacity of tank
- 9.2 Protection measures such as painting and coating shall be maintained to minimise corrosion of the fuel tank(s).
- 9.3 Existing secondary containment around the fuel tanks shall be inspected monthly for cracks and breakage to ensure they are liquid tight to withstand hydrostatic pressure of any contained liquid when full. A summarised inspection report shall be submitted to the Agency as a component of the Annual Report.
- 9.4 Containment bunds shall remain sealed and all piping must enter or exit the bund over the wall. Bunds shall provide total containment, and no part of the tank infrastructure (e.g. dispenser, filling hoses and valves) shall protrude outside the bund.
- 9.5 All fuel storage tanks shall be tested by competent persons to verify their integrity once every five years. All tests should be documented including a clear indication of the scope, type and results of the tests. The test methods and results shall be submitted to the Agency as a component of the Annual Report.
- 9.6 Secondary containment, drip trays or other overflow and drip containment measures shall be installed and maintained at connection points or other possible overflow points.

Operation Permit - Ref. No. 20181204-DMQRE

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

10.0 WASTE MANAGEMENT

- 10.1 Adhere to the provisions of the **Environmental Protection (Litter Enforcement) Regulations, 2013.**
- 10.2 Promote proper solid waste management and disposal practices at your facility. Waste shall not be disposed of in or near the waterways. Reduction and reuse of waste should be promoted.
- 10.3 Ensure that solid waste pits are located at least one hundred (100) meters away from watercourses, or habitation. The waste sites should be constructed above the ground water table and lined to the floor with an impervious earthen or other material to prevent leaching to ground water.
- 10.4 Maintain good house-keeping, sanitary and hygienic practices and the aesthetic quality of the surroundings at all times.
- 10.5 Ensure that garbage receptacles are placed in strategic locations within the project site. Have separate bins to facilitate the collection and sorting of waste according to liquid and solids; organic and inorganic; degradable and non-degradable. Used tyres and batteries should be re-used or disposed of in a manner approved by the EPA.
- 10.6 Ensure that all pit latrines onsite are modified to facilitate improved ventilation in keeping with **Guyana National Bureau of Standards (GNBS).**
- 10.7 Construct and maintain a septic tank system at all times which should be accessible for cleaning and de-sludging. Any modification to the Septic Tank (s) must be in accordance with the *Guyana National Bureau of Standards (GNBS) Code of Practice for the Design and Construction of Septic Tanks and Associated Secondary Treatment and Disposal Systems.*
- 10.8 All on-board waste from the tugs and barges should be collected and disposed of at the intended destination. **At no time, should waste be dumped over-board.**

11.0 AIR QUALITY MANAGEMENT

- 11.1 Adhere to the provisions of the Environmental Protection (Air Quality) Regulations, 2000 and the World Health Organisation (WHO) Air Quality Guidelines for Particulate Matter in the Environment, not exceeding the limits below:

Operation Permit - Ref. No. 20181204-DMQRE

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

Air Pollutant	Maximum Pollutant Level
PM_{2.5}	10 µg/m ³ annual mean
	25 µg/m ³ 24-hour mean
PM₁₀	20 µg/m ³ annual mean
	50 µg/m ³ 24-hour mean
Total Suspended Particles (TSP)	Primary 75 µg/m ³ annual geometric mean
	Primary 260 µg/m ³ 24-hour mean
	Secondary 60 µg/m ³ annual geometric mean
	Secondary 150 µg/m ³ 24-hour mean

- 11.2 Submit to the Agency, twice yearly (once during the dry season and once during the wet season) an inventory of the air contaminants and the quantities that are emitted from Sand and loam Mining operations, using the EPA's Reporting and Record-Keeping Form for Emissions.
- 11.3 Take all necessary precautions to reduce any instances of air emissions into the environment from the operation. Establish and maintain the vegetative buffer zone between the Quarry and any existing water way and other contiguous land uses to buffer noise and fugitive dust emissions.
- 11.4 Ensure measures are taken to avoid or reduce dust pollution from the mines. Dust suppressants i.e. water soaking etc. shall be used during dry season and as necessary.
- 11.5 Ensure that the exhaust stack of the generator is of an appropriate height, at least three (3) feet above the tallest building nearby, to minimize adverse fumes/soot impacts to contiguous areas.
- 11.6 Operate and service all mechanical equipment in accordance with manufacturer's specifications at all times.
- 11.7 Employ all practical measures along haul roads, stockpile areas, and other necessary areas to control and prevent fugitive dust impacts during operation of the plant. Dust-suppression methods, such as wetting, should be used, as necessary. Special consideration should also be taken of prevailing wind direction, where necessary.

Operation Permit - Ref. No. 20181204-DMQRE

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

12.0 NOISE MANAGEMENT

- 12.1 Adhere to the provisions of the **Environmental Protection (Noise Management) Regulations, 2000.**
- 12.2 Comply with the Guidelines for Noise Emissions into the Environment for Guidelines for Noise Emissions into the Environment, not exceeding the limits below at a distance of 15 m (50 ft.) from the source or property boundary, whichever is closer.
- Industrial Limits **100 dB (Day-time (06:00-18:00 h))**
 80 dB (Night –time (18:00-06:00 h))
- 12.3 Conduct monitoring on a weekly basis to ensure that noise from the operation is within the limits specified in **Condition 12.2** and submit results to the EPA as a component of the Environmental Annual Report required **by Condition 14.1.**
- 12.4 Equip all sound-making devices, e.g. generators, planers, etc. with silencers or mufflers to reduce noise level and/or enclose all sound making devices in structures constructed with materials of good insulation properties (e.g. hollow concrete blocks, insulation boards, solid clay bricks, etc.).
- 12.5 Ensure that all equipment and machinery are placed on foundations properly designed to ensure effective damping of vibrations.

13.0 BIODIVERSITY PROTECTION

- 13.1 Establish vegetation around production facilities and along access roads to mitigate the impact on terrestrial resources.
- 13.2 Identify and avoid sensitive ecological areas within your mining claim.
- 13.3 Avoid blasting/intense construction activities during sensitive biodiversity seasons of the year as advised by the Guyana Wildlife Conservation and Management Commission.
- 13.4 Undertake construction, including clearing of vegetation at a pace slow enough to ensure that terrestrial animals and aquatic life can move to other locations.
- 13.5 Communicate to employees that the capture, trading and/or removal of endangered and vulnerable wildlife from the project area and surrounding areas is forbidden, in accordance with the **Wildlife Conservation and Management Act, 2016**, and any of its applicable forthcoming Regulations.

Operation Permit - Ref. No. 20181204-DMQRE

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

- 13.6 Report all occurrences of illegal wildlife trapping and trading to the EPA and Wildlife Conservation and Management Commission Authority.
- 13.7 Conduct and record visual observances of aquatic and terrestrial biodiversity on a daily basis. Submit reports as a component of the Environmental Annual Report required **in condition 14.1**.

14.0 COMPLIANCE MONITORING AND REPORTING

- 14.1 Submit **Environmental Annual Reports** to the EPA on or before **March 31** every year on your compliance with this Permit.
- 14.2 Submit to the Agency records of the type, composition and quantity of contaminant released (i.e. any solid, liquid, gas, odour, sound, vibration, radiation, heat or a combination of any of them).
- 14.3 Ensure the reports and records of monitoring include the following:
- I. The names of the individuals and designations, who conducted sampling, prepared and compiled the reports;
 - II. The date, place/location, time, weather conditions, techniques and methods used in sampling;
 - III. The date the measurements were compiled or analysed and the names of the individuals who compiled the information;
 - IV. Observations, readings, calculations, benchmarks, bench data, the results of analyses;
 - V. Limitations of the sampling process and all other occurrence at the time of study, which may affect the results;
 - VI. Photographs and drawings of all relevant aspects of the operation; and
 - VII. The state of operation of facilities at the time of measurement, including planned and unplanned shutdowns, production levels and achievement of design capacity, identification of release point, source of release and substances being released.
- 14.4 Comply with any lawful directions given by the EPA from time-to-time in furtherance of the implementation of any international or other obligations for the environmental protection.
- 14.5 Inform the Agency prior to or within **thirty (30) days** of any change of name or ownership of the operation.
- 14.6 Notify the Agency within **twenty-one (21) days** in event of bankruptcy, liquidation or receivership of the Permit Holder or if the Company becomes a party to an amalgamation.

Operation Permit - Ref. No. 20181204-DMQRE

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

- 14.7 Notify the EPA within **one (1) hour** of the occurrence of any environmental emergencies such as a sudden disaster, accident, natural, technological or human induced factors that cause or threaten to cause severe environmental damage as well as harm to human health or livelihood.
- 14.8 Report to the Agency of non-compliance with the **Operation Permit**:
- 14.8.1** Within **twenty-four (24) hours** of the time the Holder of the Operation Permit becomes aware of the non-compliance, the anticipated manner in which it may endanger human health or the environment.
 - 14.8.2** Within **seventy-two (72) hours**, submit to the Agency a written report containing a description of the non-compliance, its cause and the period of non-compliance including exact dates and time.
 - 14.8.3** Submit a report to the Agency indicating the reasons and the anticipated time it is expected to continue if the non-compliance has not been corrected.
- 14.9 Implement relevant measures/agreements to avoid conflicts with other land users/communities. Conflicts should be reported to the relevant authorities if they occur.
- 14.10 Inform the **National Trust and Walter Roth Museum** if any artefacts of archaeological and anthropological significance are unearthed during Major Stone Quarry operations.
- 14.11 Immediately notify the EPA within **one (1) hour** of any accidental release of contaminants or incidence of pollution into the environment. The Permit Holder shall provide the financial, equipment and technical capacity to adequately respond to any emergency that may occur on site and emergency response shall be immediate.
- 14.12 Submit to the Agency a detailed **Project Closure Plan** for approval **two (2) years** prior to closure. Thereafter, the closure plan will be updated and reviewed at a frequency agreed to with the Agency, as needed.

15.0 INSTITUTIONAL AUTHORITY/LIABILITIES

- 15.1 The Permit Holder, his Servants and/or Agents shall be strictly liable for any loss and/or damage to the environment through any act caused intentionally or recklessly, through the adverse effect of any discharge or release, or cause or permit the entry of pollution, contaminant in any amount, concentration or level in excess of those prescribed by the regulations or stipulated by any environmental authorization, which are attributed to the Project. (S.19 (1) EP Act).

Operation Permit - Ref. No. 20181204-DMQRE

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- 15.2 The Permit Holder shall be guilty of any offence in accordance with s. 39 (1), (2), (3), (4) of the EP Act, Laws of Guyana, which states every person who causes material or serious environmental harm by polluting the environment intentionally or recklessly and with the knowledge that material and or / serious environmental harm will or might result is guilty of an offence and shall be liable to the penalties prescribed under the said Act.
- 15.3 The Permit Holder shall strictly observe section 19 (3) of the Environmental Protection Act Cap 20:05, Laws of Guyana.
- 15.4 The EPA reserves the right to conduct regular inspections of the Permit Holder's operation as part of its monitoring and enforcement requirements under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.
- 15.5 The Permit Holder, His Servants, Agents and/or Sub-Contractors shall at all times, allow entry to the Permitted facility to any Officer designated by the EPA for the purposes of conducting inspections or any other legitimate business of the Agency. Pursuant to s. 3.8 of Environmental Protection Act, Cap. 20:05, it is an offence to **assault, obstruct or hinder** an authorised person in the execution of his/her duty under the said Act or its Regulations and the Permit Holder be liable to penalties prescribed under paragraph (c) of the Fifth Schedule for doing so.
- 15.6 The Permit Holder shall comply strictly with section 39 (1), (2), (3) and (4) of the Environmental Protection Act Cap 20:05, Laws of Guyana.
- 15.7 The EPA reserves the right to review/amend the conditions attached to this Permit, which also includes the review and/or amendment of permit fees in consideration of any changes in fee structure as determined by the Agency for projects of this nature.
- 15.8 The EPA shall have the right to cancel or suspend this Permit for breach of any of the terms and conditions contained herein.
- 15.9 **This Operation Permit is not the final consent; all relevant permission should be obtained from other regulatory bodies for continued operation.**
- 15.10 The Permit Holder shall compensate any Party who suffers any loss of damage as a result of the attributed project. (Part V, s.19 (3) (e).
- 15.11 To the extent permitted by Law, the Permit Holder shall indemnify, defend and hold harmless the Agency (EPA) from liability including all claims and losses,

Operation Permit - Ref. No. 20181204-DMQRE

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.


and all related costs, and expenses (including reasonable attorney's fees and costs of investigation, litigation, settlement, judgments, interest and penalties) resulting to any person, firm or corporation that may be injured or damaged as a result of the Permit Holder in the performance of the said project, that are attributed to the negligence or tortious acts of the Permit Holder or any of its sub – contractors and / or by anyone else for whose acts any of them may be liable.


- 15.12 The Permit Holder shall not be indemnified by the Agency for any activity that causes or is likely to cause pollution to the environment, resulting from adverse effects through the discharge, any contaminant in any amount, concentration, ultra hazardous substances, chemicals or otherwise, and shall be rendered liable to prosecution and to penalties prescribed under the Environmental Protection Act and Regulations.
- 15.13 The Permit Holder shall be responsible for the payment of all cost related to the assessment of damage and costs for the independent assessor(s).
- 15.14 Should the Permit Holder contravene or is likely to contravene any condition of this Permit, the Agency (EPA) may serve on him an enforcement notice in accordance with s. 26 of the Environmental Protection Act, Cap.20:05, Laws of Guyana.
- 15.15 Where it appears to the Agency (EPA) that the Permit Holder is engaged in any activity that may pose serious threat to natural resources or serious pollution of the environment or any damage to public health, the Permit Holder shall be issued with a Prohibition Notice Order to immediately cease the offending activity in accordance with s. 27 Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 15.16 Where the Permit Holder in accordance with s. 19(3) is found liable for the contaminant or for the process involving the contaminant or who causes or permits a discharge as aforementioned in relation to above, the Permit Holder shall:
- a) Immediately notify the Agency of
 - (i) the discharge;
 - (ii) the concentration and amount of contaminant;
 - (iii) Circumstances of the discharge;
 - (iv) What action the person has taken or intends to take to restore the natural environment; and
 - b) be liable to pay for the cost of an independent investigation into the discharge.

Operation Permit - Ref. No. 20181204-DMQRE

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

- 15.17 The Permit Holder shall be liable of any gross negligence or willful misconduct caused by the Permit Holder, his Servants and/or Agents, to the marine environment, biodiversity, protected species and natural habitat with respect to any release or discharge, spill, contaminant fluids, oil or lubricants from the fuel storage at any facilities permitted under this project.
- 15.18 Shall the Permit Holder contravene or is likely to contravene any condition of this Permit, the Agency (EPA) may serve him an enforcement notice in accordance with s. 26 of the EP Act Cap. 20:05, Laws of Guyana.
- 15.19 This Permit is effective for the period stipulated herein **July, 2021 to June, 2026**. This Operation Permit shall remain valid until **June 30, 2026** unless otherwise cancelled, suspended, modified or varied in accordance with the provisions of this Permit or the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisation) Regulations, 2000.
- 15.20 This Permit must be renewed by submitting a completed *Application Form for Renewal of Environmental Authorization* to the Agency at least six months before this Permit expires, that is, no later than **January 31, 2026**.
- 15.21 Any late submission of renewal application(s) after the specified date as stated above, the Agency may be required the Permit Holder to pay, in addition to the renewal fee, a late penalty fee (accruing at the time such obligation was first owed for renewal) at a rate of **two thousand dollars (\$2,000.00) per day for every business day late**, until such renewal application is submitted to the Agency, without prejudice to any other rights of the Permit Holder in connection therewith.
- 15.22 Failure to comply with the requirements of this Permit shall render the Permit Holder liable to prosecution and to civil penalties and/or injunctive reliefs prescribed under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act 2005, and the Environmental Protection (Authorisations) Regulations 2000, including under any existing and forthcoming regulations made under the said Act or any other applicable Laws of Guyana.

Signed by  on behalf of the Environmental Protection Agency.


Kemraj Parsram
Executive Director

Date: 31.08.2021

Operation Permit - Ref. No. 20181204-DMQRE

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

I hereby accept the above terms and conditions upon which this Operation Permit is granted and agree to abide by the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, the Environmental Protection (Authorisations) Regulations, 2000, and any forthcoming regulations, best practices, guidelines and standards made under this Act.

NAME:	DANLEY MAJOR
SIGNATURE:	<i>Danley Major</i>
DESIGNATION:	CEO
DATE:	Sep 2nd 2021

