December 2023

Hard Runnings SERVICE STATION

PROJECT SUMMARY FOR PROPOSED SERVICE STATION AT Airstrip Road

Kwakwani, Berbice River

REGION #10

Prepared by: D. Munroe

HARD RUNNINGS SERVICE STATION

PROJECT NAME: **HARD RUNNINGS SERVICE STATION**

ADDRESS: **AIRSTRIP RD KWAKWANI, BERBICE RIVER,**

UPPER DEMERARA-BERBICE, GUYANA

DEVELOPER'S NAME: **MS S. ROSS**

SECTOR OF OPERATION: **COMMERCIAL/ FUEL**

BUSINESS ADDRESS: **SAME AS ABOVE**

Date of Commencement of Project by the first quarter of 2024: The Service Station is expected to commence operation following approval by relevant agencies.

NON-TECHNICAL SUMMARY OF THE PROPOSED PROJECT:

The developer proposes to complete construct a fuel service station at the Kwakwani location. The fuel service station will be constructed on land that is approximately 0.435 acres in size. The completed site will house a Mini mart, an Office, and the service station (tanks and fuel pumps)

The service station, at completion, will have a storage capacity of **9,247 Litres of gasoline-[Gasoline0]** and **14,065 Litres of diesel-[Diesel 01]** at its Kwakwani Location. This facility will be mainly used to supply residents and businesses within the region and other locations throughout the country.

One (1) above-ground storage tanks will be used to store diesel which will amount to 14,065 Litres of diesel, and one (1) underground storage tanks, which amounts to 9,247 Litres of gasoline will be stored on site. All above-ground storage tanks will be enclosed with bund walls with the capacity to store 110% of the volume of the containing tank.

Please see attached GNBS certificates of verification.

Two (2) pumps will be procured and placed to dispense fuel. Pumps will be placed under a canopy, to provide protection against the weather. It will be also constructed apart from the office and mini mart making an 'island style' pump setup.

Site Utilities and Basic Overview

Drainage

The property would have a network of natural drains, constructed drains and filter system.

Land Use

The district in which the project lies is a mix of residential, commercial, and mining.

Electricity

Power to service the facility would be from an electric generator (15Kva) and also from Kwakwani Utilities.

Water

Water for domestic uses would be source from the river and rainfall. A regular supply of water for drinking purposes would be purchase from suppliers of filter water. Rainwater harvesting will be installed with storage tanks (450 gallons) at the facility.

Informational Signs

Identifying tank contents is of primary importance to the management of fuels: Signs prohibiting highly flammable and no-smoking will be erected around the facility.

Fire Protection Equipment

Portable fire extinguishers are required when fuel is stored. Fire protection for the storage, use, and dispensing, mixing, handling, and on-site transportation of flammable and combustible liquids several fire protection posts will be assigned on the property all clearly marked as directed by Guyana Fire Service. There would be fire extinguisher and sand buckets onsite.

Construction Activities

Construction activities will also entail the completion of construction and renovation of the following:

- Canopy cover for fuel dispensers
- Installation of Storage tanks at the site
- Construction of pump islands
- Installation of fuel dispensers and pumps
- Restroom facilities
- Concrete drains with necessary oil/water separators
- Concrete flooring in specific areas
- Concrete fence 6 feet high to act as a security barrier
- Construction of building to accommodate administrative building (and Mini Mart).

Approximately 6 persons are employed during the construction phase which is expected to last four months. While 4 persons will be employed to work on a shift basis to ensure the facility is adequately managed.

Expected Environment Impacts and Mitigation Measures (Construction Stage):

Expected Impact	Mitigation Measures
General of domestic and construction waste. Construction activities typically generally waste include end pieces of lumber, formwork, cement bags, and other types of waste. The presence of workers will generate domestic waste including food boxes, plastic bottles, and other forms of solid waste.	The developer will engage the services of a private waste collection service to remove construction waste from the site. Waste will be disposed at an area approved by the relevant local authorities. Domestic waste will be collected daily. Waste collection receptacles will also be placed on the site during construction.
Dust Nuisance Construction activities can generate dusty conditions, this is expected to be minimal.	In cases when the site becomes too dusty, it will be wetted using a sprinkler system that will be set up accordingly. Workers will wear PPE such as dust masks, respirators, and goggles where necessary.
Noise Nuisance Construction activities generate some amount of noise nuisance, this is expected to be minimal.	Potential Environmental Impacts Noise from the proposed operations is not considered to be a factor to alter the existing ambient noise levels. All equipment used on-site will be operated according to the manufacturer's specifications and will be maintained to ensure they are operated at optimal Construction activities will not be undertaken during the night. The developer will ensure that all measures are in place to reduce unnecessary noise levels.
Removal of vegetative cover and erosion.	
Removal of existing vegetative cover and result in some amount of erosion.	The developer will ensure that vegetation removal is limited to the footprint that is required for the service station and ancillary structures.

Projected Annual Turnover: The projected annual turnover for the facility is estimated to be 25 million annually.

No. of employees in the operational phase. 4

Operational Phase

During the operational phase, the service station will be open from 6:00 am to 6:00 pm, six (6) days per week. The facility will receive primary electricity from Kwakwani Utilities Company and A 15 KVA generator will supply back up power to the building also. Domestic water will be sourced from rainwater harvesting and Kwakwani Utilities. A total of four employees will be hired during the operational phase. Domestic waste will be collected in waste collection receptacles placed throughout the service stations. A septic tank will be constructed.

Operational Safety

General Maintenance

Dry grass, weeds, and combustible materials shall not be allowed to accumulate aroundpetroleum tanks.

Containment and Filling

All outdoor storage tanks will have secondary containment large enough to accommodate atotal of 110% spill from the largest tank plus a 24-hour rainfall event. Each tank may be filled to only 95 percent capacity, as directed by the EPA.

Storm Water

Serious financial and environmental impacts can be caused by unmanaged stormwater.

a) To prevent storm water damage, the increase in storm water runoff resulting from theconstruction activities must be estimated and the drainage system accessed accordingly.
b) During site establishment, stormwater culverts and drains are to be located andcovered with metal grids to prevent blockages if deemed necessary.
c) Temporary cut-off drains and berms maybe required to capture stormwater andpromote infiltration, or to divert stormwater flow to avoid erosion.

Education and Awareness

Worker Education on General Environmental Conduct

These points need to be made clear to staff on site before the project begins and reinforced during the project. It is the contractors` responsibility to provide the site foreman with no less than 1 hour's environmental training and to ensure that the foreman has sufficient understanding to pass this information onto the construction staff.

Worker Conduct on Site

During staff induction, followed by ongoing monitoring.

A general regard for the social and ecological well-being of the site and adjacent areas isexpected of the site staff. Workers need to be made aware of the following general rules:

1) No alcohol / drugs to be present on site.
2) No firearms allowed on site or in vehicles transporting staff to / from site (unless usedby security personnel.
3) Prevent excessive noise.
4) Prevent unsocial behavior.
5) Bringing pets e.g., caged birds onto the site is forbidden.
6) No harvesting of firewood from the site or from the adjacent areas.
7) Construction staffs are to make use of the facilities provided for them, as opposed toad-hoc alternatives, (e.g., fires for cooking, the use of surrounding areas / bush as atoilet is forbidden).
8) Trespassing on private / commercial properties adjoining the site is forbidden.
9) Driving and operating plant and equipment under the influence of alcohol is prohibited.
10) No workers shall be permitted to live on site.

There is revetment in place for erosion and this is not foreseen.

Waste Management

All protective measures should be taken to ensure that wastes management systems are putin place if pollution is to be avoided:

1) Minimize waste production.
2) Practice correct handling and disposal of all waste materials in an environmentallyfriendly manner.
3) Reuse and reclaim materials whenever possible.
4) Effluent should pass through the oil-water separator.

Facility – General

- Manage materials and waste to reduce adverse impacts
- Training of all employees upon hiring and annually thereafter on proper methods forhandling and disposing of waste.
- Make sure that all employees understand storm water discharge
- Use a training log or similar method to document training.

Preventing Fuel Spills When Refueling a vehicle

Preventing Fuel Spills from Portable Fuel Cans

- Only use no-spill portable fuel cans, and have absorbent pads ready to tackle anyspills.
- Fill the fuel cans while on shore on a level surface to reduce spills.
- Use drips pan during filling.

Outdoor Waste Receptacle Area

- Spot clean leaks and drips routinely to prevent runoff of spillage.
- Minimize the possibility of storm water pollution from outside waste receptacles bydoing at least one of the following:
- Use only watertight waste receptacle(s) and keep the lid(s) closed, or
- Grade and pave the waste receptacle area to prevent run-on of storm water, or
- Install a roof over the waste receptacle area, or
- Install a low containment berm around the waste receptacle area, or
- Use and maintain drip pans under waste receptacles fuel

dispensing Areas

- **Management of Mitigation Measures**

The possibility of spills during fueling operations always exists, and spills of gasoline anddiesel fuel during discharges from tankers fueling are a common source of pollution and these will be effectively managed.

Design and construction of facility

Therefore, installation of equipment that can minimize the occurrence of spills and taking precautions to contain, absorb, and minimize the spread of petroleum products spilled during fueling operations.

Use automatic shutoffs and or electric shutoffs to reduce fuel loss.

An electric shutoff will be located onsite of easily access. The shutoff automatically stops fuel movement when the system senses passage of a high volume of fuel through the line. This shutoff can also be manually closed when the fuel is not in operation or during emergencies.

Regular inspection, maintenance, and replacement fuel hoses, pipes, and tanks as part of Reliability Maintenance program. Install easy-to-read signs at strategic locations that explain proper fueling, spill prevention, and spill reporting procedures.

Spill response

In event of any spill all practical and reasonable actions must be taken immediately to minimize the effect of the spill on the environment and to safeguard the health of the public, self and employees. The EPA will be notified of a spill within 24 hours;

All spills and leakage must be recorded with the necessary prevention measures implemented to avoid recurrences; and a spill kit would be provided at all sites that are prone to spills. Kits should contain absorbent material, drain seals disposal container andothers appropriate tools.

Aboveground Storage Tanks

Provision of corrosion protection for ASTs and any buried piping. Options include elevatingtanks, resting tanks on continuous concrete slabs, installing double-walled tanks, or catholically protecting the tanks and piping.

Prevent rainwater from filling containment areas, you may need to cover the tank with a roof structure. Regularly check the dispenser hoses and piping for any leaks (a common problem). On-site staff should be trained to handle emergencies, such as leaks or explosions.

All ASTs would have a secondary bund of containment capable of holding 110% of thelargest tank capacity plus sufficient room to hold stormwater/rainwater.

Buried piping must be protectively wrapped and/or coated with anti-corrosive paint.

Routinely monitor ASTs to ensure they are not leaking. Areas to inspect include tank foundations, connections, coatings, tank walls, and piping systems. The new SPCC rulerequires combining tank inspection with integrity testing based on industry standards.

Oil handling employees must be trained in proper handling of oil and applicable pollution control laws, rules, and regulations. Training records will be maintained for at least three years.

OCCUPATIONAL HEALTH AND SAFETY MEASURES- CONSTRUCTION PHASE

The developer will implement the following:

- Provide workers with training in the proper use and maintenance of equipment and machinery where necessary.
- Ensure appropriate Personal Protective Equipment is worn at all times during construction.
- Ensure there is no unwanted or deleterious discharge into the surrounding environment.
- Implement a strict no-dumping policy since waste receptacles with be provided on-site and skip bins for disposing of construction waste

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- Ensure the service station is outfitted with all necessary firefighting equipment including fire hoses, extinguishers, and sand buckets.
- Provide first-aid kit on site.
- Establish muster points and identify emergency procedures that will be onsite.
- Comply with the National Guidelines regarding health and safety.

HARD RUNNINGS SERVICE STATION

ENVIRONMENTAL MONITORING

The service that will be offered at **Hard Runnings Service Station** will be of high standards and in compliance with all applicable laws and regulations. On-site, great emphasis will be placed on maintaining high environmental and health & safety standards.

Environmental monitoring programs will be implemented to address all activities that have been identified to have potential impacts on the environment during construction and normal operations. Environmental monitoring activities would be based on direct or indirect indicators of emissions, effluents, and resource use as applicable.

CONCLUSION

The facility will be built and operate in accordance with all the relevant Agencies especially the EPA and is committed to ensuring that its operation does not have significant adverse impacts on the environment in which it functions.