



Atlantic Petroleum Inc.

Project Summary

Name of Project: Establishment of a Wharf, Bulk Petroleum Storage and Distribution Terminal



Name of Developer: Doodnauth Rasiawan
Managing Director

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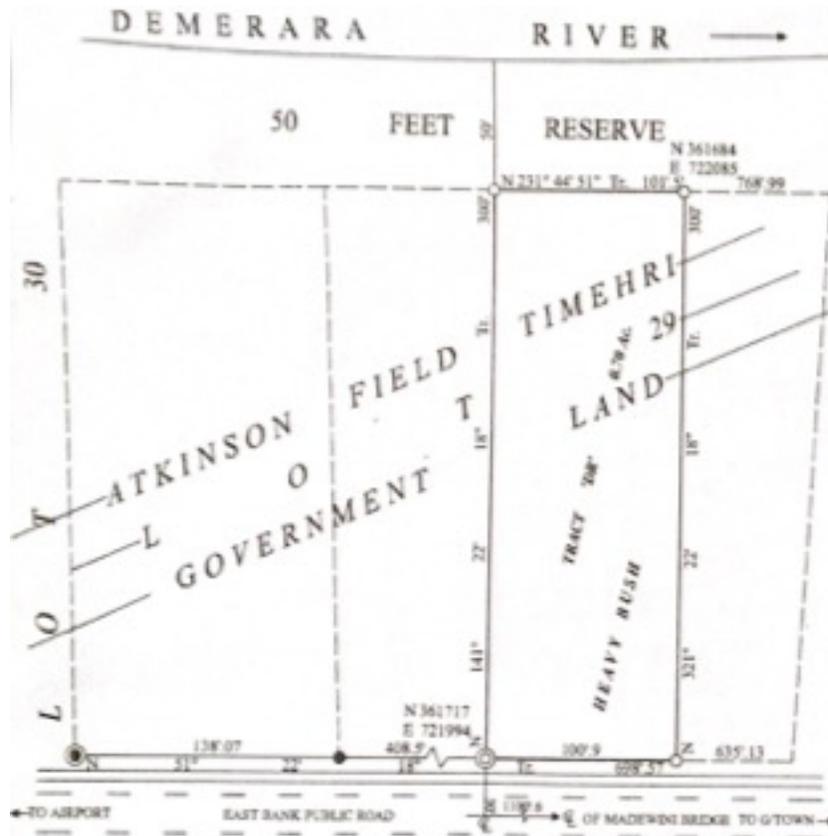
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1. Site Location and Description

The facility will be established on 0.7 acres of land, located at Tract "DR", Lot 29, Atkinson Field, Timehri.



The site is bordered by the East Bank Public Road to the east, the Demerara River to the west, an empty lot to the south and a manufacturing enterprise to the north.

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2. Project Design and Operation

2.1 Overview

The project is designed to facilitate the offloading, bulk storage and distribution of petroleum products. It will consist of the following components:

a. Wharf Operations

Petroleum products will be delivered to the terminal site by ocean-going vessels, via the Demerara River. These products will be offloaded from the vessels and brought on-shore, utilizing the proposed wharf facilities.



b. Storage Operations

Off-loaded petroleum products will be stored on-shore, utilizing purpose-built storage tanks. The storage areas will be designed to accommodate the projected quantity of products, and to comply with the required environmental and safety standards.



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c. Loading Operations

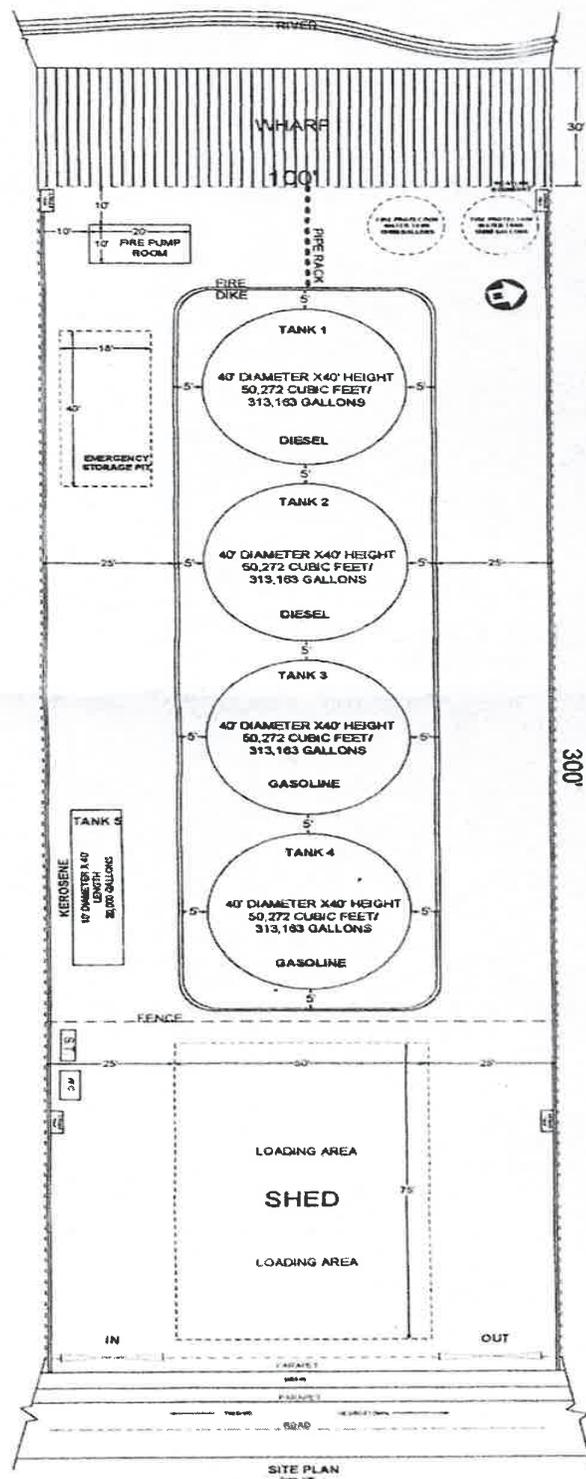
Stored petroleum products will then be distributed to retail suppliers, utilizing purpose-built loading facilities. These distribution facilities will be designed to accommodate the projected number and sizes of fuel transport tankers, and to comply with the required environmental and safety standards.



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3. Project Size and Duration

i. Product Volumes

The project is designed to handle the following quantities of petroleum products:

No.	Product	Projected Annual Quantity
1	Gasolene	4.0 million Litres
2	Dieselene	12.0 million Litres
3	Kerosene	1.2 million Litres
Total		17.2 million Litres

ii. Storage Infrastructure

The project will encompass the following storage infrastructure:

- Four (4) large tanks, each with a capacity of 50,272 cubic feet, or 313,163 gallons
- One small tank, with a capacity of 20,000 gallons

iii. Loading Infrastructure

The project will encompass a loading area capable of accommodating two (2) fuel tankers at a time. The loading area will measure 75 feet x 50 feet.

iv. Investment

The capital investment in the project is G\$350 million. The annual turnover is estimated at US\$4 million to US\$6 million.

v. Labour

This project will employ 15 persons on a full-time basis.

vi. Project Lifespan

The project lifespan is expected to be 50 years.



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4. Potential Environmental Effects

i. Spillage

The main negative environmental effect anticipated is spillage of stored petroleum products. This can occur due to failure of storage tanks, or failure of equipment during product transfer. In the event that this occurs, the spilled products can contaminate the soil of the surrounding area, or the waters of the nearby Demerara River, or both.

ii. Leaks

Another anticipated negative environmental effect is from leaks of stored product. This can occur due to malfunctioning equipment or storage tanks. In the event that this occurs, the leaked products can, over a period of time, contaminate the soil of the surrounding area, or the waters of the nearby Demerara River, or both.

iii. Fires

Given that the stored products are flammable, the risk of fire is a possibility. The burning of petroleum products releases toxic substances into the atmosphere, polluting the immediate and surrounding area, and could also pollute further afield, depending on the size and severity of the blaze.

iv. Noise Pollution

Noise will be generated, by the operation of machinery, equipment, and in the event of a power outage, diesel generators. This noise is a potential source of pollution.

v. Sewage

Operations at the site will generate sewage as a result of personnel presence on site. This represents a potential source of pollution.



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5. Proposed Mitigation Plans

Specifically, the following potential sources of pollution will be managed as follows:

i. Spillage

The negative effects of spillage will be mitigated by storing the tanks within containment bunds with impervious base and the establishment of strategically placed drains and sumps, to contain spilled product, until it can be properly disposed. Spill clean-up kit will be available. This will prevent or mitigate the contamination of the soil of the surrounding area, or the waters of the nearby Demerara River, or both.

ii. Leaks

All equipment and storage facilities will be regularly inspected, and ensured to be in good working order. Any defective items will be repaired or replaced, to ensure the integrity of the storage structure and the functionality of equipment. This will prevent or mitigate contamination of the soil of the surrounding area, or the waters of the nearby Demerara River, or both.

iii. Noise Pollution

Diesel generators and other noise-generating equipment or machinery will be operated with the required muffling apparatus, to reduce the operational noise to permitted levels. This will prevent or mitigate potential sources noise pollution.

iv. Sewage

An approved septic tank system will be installed to collect and treat sewage. This will prevent or mitigate this potential source of pollution.

v. Fire

Fire-suppressing equipment and materials will be placed on site in strategic locations to combat an outbreak of fire.

vi. Hazard Evaluation

Routine visual surveys of all facilities, structures and equipment will be conducted. These surveys will be conducted in accordance with an established schedule, and reports prepared for remedial action where required.

vii. Employee Training

All employees will be regularly trained on important aspects relating to the operation of the facility. Training will focus on adherence to written operating procedures and emphasize swift reporting and corrective actions for deficiencies encountered.



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viii. Inspection and Preventative Maintenance

Inspection and maintenance are important in preventing equipment-condition type accidents. A program will be developed to facilitate regular inspection and preventative maintenance for all aspects of the facility.

ix. Management Plan

A comprehensive Management Plan will be developed to cater for safety, operational and maintenance requirements for the facility. This will not only support the smooth functioning of the facility, but also provide operational practices to deal with events which may cause pollution.