Alpha Ape LLC

Security Audit report for
LakeViewMeta

BSC Contract Address
0x02678125Fb30d0fE77fc9D10Ea531f8b4348c603
August.14.2022

Table of Contents

SUMMARY OF AUDIT

DETAILS OF AUDITED PROJECT

Audited Project:	LakeViewMeta – (LVM)
Source Code:	https://bscscan.com/address/0x02678125Fb30d0fE77fc9D10Ea531f8b4348c603#code (verified)
Solidity File:	**LakeViewMeta**.sol
Security Audit Date:	Aug. 14 - 2022
Revisions:	Initial audit Aug.5-22, Revision Aug.14-22
Auditing Methods:	Automatic review + Manual review

AUDITING METHODS AND COVERING SECTORS

Evaluation objective for the security audit:

- Quality of smart contracts code
- Issues and vulnerabilities with security
- Documentation, project specifics and commenting on smart contract
- Correctness of specifications regarding the use-case
- Following the best practices on smart contract

Audit covers these sectors of smart contract for possible vulnerabilities, issues and recommendations for better practices in case of severe or medium issues:

- Dependence Transaction Order
- Single and Cross-Function Reentrancy
- Time Dependency
- Integer Overflow
- Integer Underflow
- Mishandled exceptions and call stack limits
- Unsafe external calls
- Number rounding errors

- Insufficient gas issues
- Logical oversights
- Access control
- Centralization of power
- Logic-Specification
- Contradiction
- Functionality duplication

- Malicious contract behaviour and abusable functions

- Possible DoS vulnerabilities

The code review conducted for this audit follows the following structure:

1. Review of the specifications, documentation and commenting provided by the project owners regarding the functionality of the smart contract

2. Automated analysis of the smart contract followed by manual, line-by-line analysis of the smart contract

3. Assessment of smart contracts correctness regarding the documentation and commenting compared to functionality

4. Assessment of following the best practices

5. Recommendations for better practises in case severe or medium vulnerabilities

SMART CONTRACT DETAILS

Contract ID	0x02678125Fb30d0fE77fc9D10Ea531f8b4348c603 (verified)
Blockchain:	Binance Smart Chain
Language Used:	Solidity
Compiler Version:	v0.8.15+commit.e14f2714
Bscscan Verification:	2022-08-11
Type of Smart Contract:	BEP20 Token – Standard Token
Libraries Used:	
Optimization Enabled:	No with 200 runs

SUMMARY OF AUDIT RESULTS

Alpha Ape LLC smart contract audit for LakeViewMeta (LVM) is marked as **PASSED** result without severe issues on the logic and functions of the contract. Review of the documentation and description of the projects use-case and the contract follows the line of good practices for majority. Clean and default commented contract. There is no severe vulnerability findings in the contract.

Contract owner is able to change buy and sell limits and remove limitations and fees of separate wallets..

Contract has recovery functions for possible stuck balance for BEP20 tokens and blockchains native currency BNB in contract address.

Contract has not been renounced.

Corrected functionality of maxWallet function and added SwapAndLiquify adjustable value.

SEVERITY OF RISKS AND VULNERABILITIES

LOW-SEVERITY	MEDIUM-SEVERITY	HIGH-SEVERITY
0	0	0

REPORTED VULNERABILITIES AND ISSUES

LEVEL OF SEVERITY	DESCRIPTION	FILE	CODELINES AFFECTED

FINDINGS IN-DEPTH

NO FINDINGS ON THE CONTRACT OR NOTICABLE LOGICAL ISSUES

DOCUMENTATION AND COMMENTING

The code has a decent amount of comments and documentation. Improving stage of commenting on smart contracts, and cleaning the commenting, helps userbase to understand all the functionalities and use-case of the contract. Functions are marked in understandable way and commenting on the contract has been made human readable to understand.

CORRECTNESS OF SPECIFICATIONS

Smart contract follows the functionality that is stated in the documentation and description of the contract. The use-case is also in line what is described about the project.

FOLLOWING THE BEST PRACTICES

The contract follows the best practices in majority. Minor parts that do not follow the best practices, for example changeable fee structure, do not rise fear in malicious use of the contract or severe issues in projects use-case.

HISTORY OF REVISIONS, FUNCTIONS AND VARIABLES

HISTORY OF REVISIONS

Initial audit was performed Aug. 5-2022. Revisioning date: Aug. 15-2022.

Team has been provided recommendations for better practices post-audit performing, resulting in good outcome and cleaner contract. There is no severe or medium notifications or recommendations for further revisioning. Contract is deployed and immutable and the possible vulnerabilities has been stated in the security audit.

Corrected functionality of maxwallet function and adjustable swap to liquify functions.