

Smart Contract Audit

FOR

Crypto PepeMines

DATED: 10 May 23'



AUDIT SUMMARY

Project name - Crypto PepeMines

Date: 10 May, 2023

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: Passed

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	0	0	1	2
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0



USED TOOLS

Tools:

1- Manual Review:

a line by line code review has been performed by audit ace team.

2- BSC Test Network:

all tests were done on BSC Test network, each test has its transaction has attached to it.

3- Slither: Static Analysis

Testnet Link: all tests were done using this contract, tests are done on BSC Testnet

https://testnet.bscscan.com/token/0x4Bbe7693380 942c505856e72371c6a3f784dF4ca



Token Information

Token Name: Crypto PepeMines

Token Symbol: CPM

Decimals: 18

Token Supply:5,000,000

Token Address: -

Checksum:

bf50ef6934cc5b1dc376c49e6e5ffe496eb329da

Owner: -



TOKEN OVERVIEW

Fees:

Buy Fees: 3 %

Sell Fees: 3 %

Transfer Fees: 3%

Fees Privilige: owner

Ownership: none

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: modifying fees



AUDIT METHODOLOGY

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
- Manual review of the entire codebase by our experts, which is the process of reading source code line-byline in an attempt to identify potential vulnerabilities.
- Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
- Test coverage analysis determines whether the test cases are covering the code and how much code isexercised when we run the test cases.
- Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
- Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.



VULNERABILITY CHECKLIST





CLASSIFICATION OF RISK

Severity

- Critical
- High-Risk
- Medium-Risk
- Low-Risk
- Gas Optimization
 /Suggestion

Description

These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.

A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

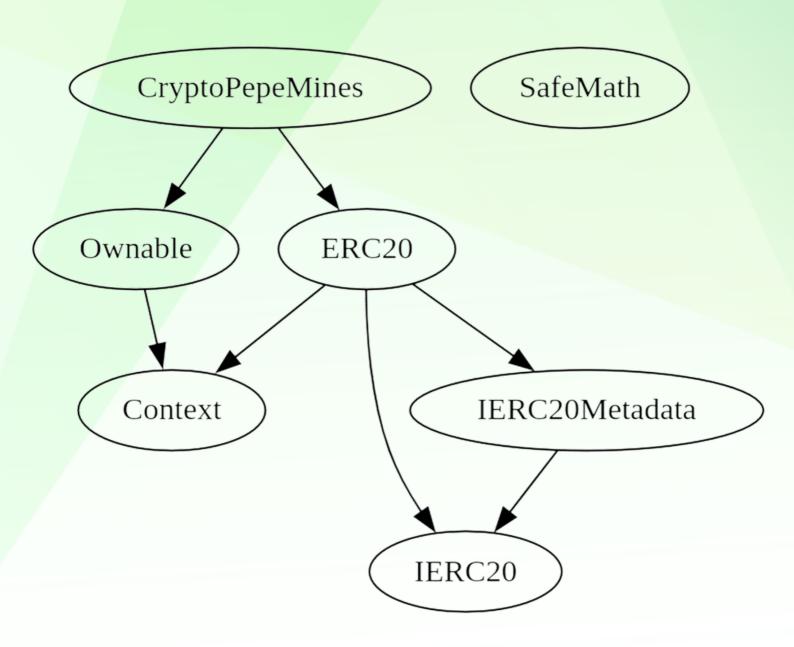
A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
◆ Critical	0
♦ High-Risk	0
◆ Medium-Risk	0
♦ Low-Risk	1
Gas Optimization /Suggestions	2



INHERITANCE TREE





POINTS TO NOTE

- Owner is not able to set buy/sell/transfer tax over 3% each
- Owner is not able to set a max buy/transfer/wallet/sell amount
- Owner is not able to blacklist an arbitrary wallet
- Owner is not able to disable trades
- Owner is not able to mint new tokens



CONTRACT ASSESMENT

```
| Contract |
                Type
                             Bases
| **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
**CryptoPepeMines** | Implementation | ERC20, Ownable | | |
| L | <Constructor> | Public | | | | | ERC20 |
| L | setLiquidityContract | External | | ( ) | onlyOwner |
| | setWalletsExcludedFromFee | External | | | onlyOwner |
| L | setTax | External | | 🛑 | onlyOwner |
| L | transfer | Internal 🦰 | 🛑 | |
111111
**ERC20** | Implementation | Context, IERC20, IERC20Metadata | | |
| | | Constructor> | Public | | | | NO | |
| L | name | Public | | | NO | |
| L | symbol | Public | | NO | |
| L | decimals | Public | | NO | |
| L | totalSupply | Public | | NO | |
| L | balanceOf | Public | | NO | |
| L | transfer | Public | | ( NO | |
| L | allowance | Public | | NO | |
| L | approve | Public | | ( NO | |
| L | transferFrom | Public | | | NO | |
| L | increaseAllowance | Public | | | NO | |
| L | decreaseAllowance | Public | | ( ) | NO | |
| L | transfer | Internal 🦰 | 🛑 | |
| L | _mint | Internal 🦰 | 🛑 | |
| L | burn | Internal 🦰 | 🛑 | |
| L | _approve | Internal 🦰 | 🛑 | |
| L | spendAllowance | Internal 🦲 | 🛑 | |
| L | _beforeTokenTransfer | Internal 🦰 | 🛑 | |
| L | afterTokenTransfer | Internal 🦲 | 🛑 | |
\Pi\Pi\Pi\Pi
| **IERC20** | Interface | ||| | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | transfer | External | | | NO | |
| L | allowance | External | | NO | |
| L | approve | External | | | NO | |
| L | transferFrom | External | | | NO | |
111111
| **IERC20Metadata** | Interface | IERC20 | | | |
| L | name | External | | NO | |
| L | symbol | External | | NO | |
```



CONTRACT ASSESMENT

```
| L | decimals | External | | NO | |
\Pi\Pi\Pi\Pi
| **Context** | Implementation | |||
| | msgSender | Internal | | | |
**Ownable** | Implementation | Context | | |
| L | <Constructor> | Public | | ( NO | |
| L | owner | Public | | NO | |
| L | renounceOwnership | Public | | 🛑 | onlyOwner |
📙 | transferOwnership | Public 🛮 | 🦲 | onlyOwner |
| L | _transferOwnership | Internal 🦰 | 🛑 | |
111111
| **SafeMath** | Library | ||| |
| L | tryAdd | Internal 🦰 | | |
| L | trySub | Internal 🦲 | | |
| L | tryMul | Internal 🦰 | | |
| L | tryDiv | Internal 🦲 | | |
| L | tryMod | Internal 🦰 | | |
| L | add | Internal 🦲 | | |
| L | sub | Internal 🦰 | | | |
| L | mul | Internal 🦰 | | | |
| L | div | Internal 🦲 | | |
| L | mod | Internal 🦰 | | | |
| L | sub | Internal 🦰 | | |
| L | div | Internal 🦰 | | | |
| L | mod | Internal 🦰 | | |
| Symbol | Meaning |
|:-----|
   | Function can modify state |
  | Function is payable |
```



STATIC ANALYSIS

```
Context.msgData() (contracts/Token.sol#25-27) is never used and should be removed

RRC20.burn(address, uint256) (contracts/Token.sol#265-267) is never used and should be removed

SafeMath.add(uint256,uint256) (contracts/Token.sol#265-267) is never used and should be removed

SafeMath.mod(uint256,uint256) (contracts/Token.sol#363-372) is never used and should be removed

SafeMath.mod(uint256,uint256) (contracts/Token.sol#363-372) is never used and should be removed

SafeMath.mod(uint256,uint256) (contracts/Token.sol#389-398) is never used and should be removed

SafeMath.sub(uint256,uint256) (contracts/Token.sol#379-281) is never used and should be removed

SafeMath.sub(uint256,uint256) (contracts/Token.sol#349-349) is never used and should be removed

SafeMath.tryAdd(uint256,uint256) (contracts/Token.sol#349-349) is never used and should be removed

SafeMath.tryMod(uint256,uint256) (contracts/Token.sol#39-238) is never used and should be removed

SafeMath.tryMod(uint256,uint256) (contracts/Token.sol#210-223) is never used and should be removed

SafeMath.tryMod(uint256,uint256) (contracts/Token.sol#210-223) is never used and should be removed

SafeMath.tryMod(uint256,uint256) (contracts/Token.sol#395-283) is never used and should be removed

SafeMath.trySub(uint256,uint256) (contracts/Token.sol#395-283) is never used and should be removed

SafeMath.trySub(uint256,uint256) (contracts/Token.sol#395-283) is never used and should be removed

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```

Result => A static analysis of contract's source code has been performed using slither,

No major issues were found in the output



FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

All the functionalities have been tested, no issues were found

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0x971b9dbfdda14a38a5f2ee9009c 5c8bc82858b49dcc245a9a41d7be0c9723381

2- Buying when excluded (0% tax) (passed):

https://testnet.bscscan.com/tx/0xed6f8a8ab913c9636143e99da6 3a9f39f4a0a9c1cbdf51377b11976f6ff1ede8

3- Selling when excluded (0% tax) (passed):

https://testnet.bscscan.com/tx/0x66a40fa8cbeb864175168e4026 3f23569405a47b77911b3e8c2ffd46c876e951

4- Transferring when excluded (0% tax) (passed):

https://testnet.bscscan.com/tx/0x19ee4889846f047d74c5c6343a 6cf34ccacbd2aec42f4d12900c6d77f786a1bb

5- Buying when not excluded (0% tax) (passed):

https://testnet.bscscan.com/tx/0x6bbe8a2d92f6be8fb8ed858f84 54519727c83903ef28c6aad68b087bcd568a19

6- Selling when not excluded (0% tax) (passed):

https://testnet.bscscan.com/tx/0xe41fb967be70440fcbdb414d765fde6634836b3b419b62e038436471ffdc0798



FUNCTIONAL TESTING

7- Transferring when not excluded (0% tax) (passed):

https://testnet.bscscan.com/tx/0x01bc353e07640965bb52d6bce7dd520d25ec9910782e7c59e51b81aa31ee1ea4



MANUAL TESTING

Logical – Fee whitlist

Severity: Low

function: setExcludedFromFee

Status: Not Resolved

Overview:

if a wallet is excluded from fees, it can not be unexcluded again.

```
function setWalletsExcludedFromFee(address wallet) external onlyOwner {
    require(
        wallet != address(0),
        "address variable can not be zero address"
    );
    require(!isExcludedFromFee[wallet], "This wallet is excluded");
    isExcludedFromFee[wallet] = true;
    emit WalletsExcludedFromFee(wallet);
}
```

Suggestion

To mitigate this issue, implement a way to unexclude a wallet from fees



MANUAL TESTING

Informational – Stuck ETH

Status: Not Resolved

Overview:

Currently there is no way to withdraw ETH from the contract

Suggestion:

implement a function to be able to withraw ETH from the contract

Informational – Stuck ERC20 tokens

Status: Not Resolved

Overview:

ERC20 tokens sent to contract can not be rescued.

Suggestion:

implement a function to be able to withraw ERC20 tokens from the contract



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