

# CFG NINJA AUDITS

Security Assessment

PINKEREUM Token

October 12, 2023

Audit Status: Pass

Audit Edition: Advance



3LADE POOL



# Risk Analysis

## **Classifications of Manual Risk Results**

Classification	Description	
Critical	Danger or Potential Problems.	
Major	Be Careful or Fail test.	
Minor	Pass, Not-Detected or Safe Item.	
<ul><li>Informational</li></ul>	Function Detected	

## **Manual Code Review Risk Results**

Contract Priviledge	Description
Buy Tax	1
Sale Tax	1
Cannot Buy	Pass
Cannot Sale	Pass
Max Tax	1
Modify Tax	Not-Detected
Fee Check	Pass
Is Honeypot?	Not detected
Trading Cooldown	Not Detected
Can Pause Trade?	Pass
Pause Transfer?	Not-Detected





Contract Priviledge	Description
Max Tx?	Pass
Is Anti Whale?	Not Detected
Is Anti Bot?	Not Detected
Is Blacklist?	Not Detected
Blacklist Check	Pass
is Whitelist?	Detected
Can Mint?	Pass
Is Proxy?	Not Detected
Can Take Ownership?	Not detected
Hidden Owner?	Not detected
<ul><li>Owner</li></ul>	0xc8621e8ad4C0bbC8Ce1163a79f762fAc29830c6B
Self Destruct?	Not Detected
① Other?	Not detected
Other?	Not detected
Holders	1
Auditor Confidence	High

The following quick summary it's added to the project overview; however, there are more details about the audit and its results. Please read every detail.





# **Project Overview**

# **Token Summary**

Parameter	Result	
Address	0x3f619803c8272db68B60e978C9fBB64a42E2D113	
Name	PINKEREUM	
Token Tracker	PINKEREUM (PINKEREUM)	
Decimals	18	
Supply	1,000,000,000	
Platform	Ethereum	
compiler	v0.8.17+commit.8df45f5f	
Contract Name	PINKEREUM	
Optimization	Yes with 200 runs	
LicenseType	MIT	
Language	Solidity	
Codebase	https://etherscan.io/address/0x3f619803c8272db68B60e978 C9fBB64a42E2D113#code	
Payment Tx	Oxec180aabd670e07eadd55c46126228888cb3bd30f37dde66 8989fb552cbfd45f	





# Main Contract Assessed Contract Name

Name	Contract	Live
PINKEREUM	0x3f619803c8272db68B60e978C9fBB64a42E2D113	Yes

### **TestNet Contract was Not Assessed**

# **Solidity Code Provided**

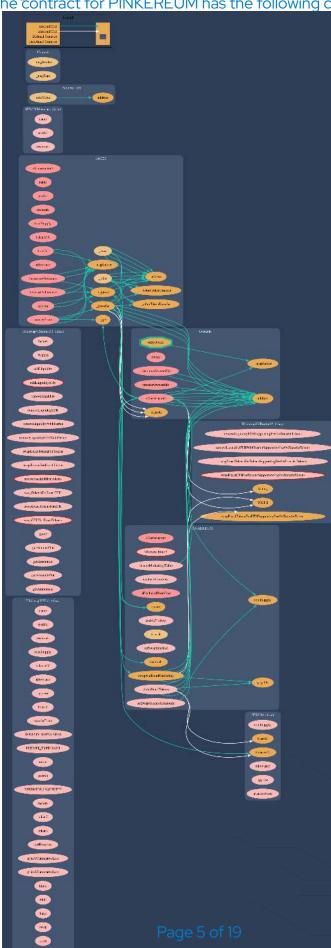
SolID	File Sha-1	FileName
PINKEREUM	3ad5e287559b918165c09cf2d6a2f845de2151f6	PINKEREUM.sol
PINKEREUM		
PINKEREUM		
PINKEREUM		





# Call Graph

The contract for PINKEREUM has the following call graph structure.







# Smart Contract Vulnerability Checks

The Smart Contract Weakness Classification Registry (SWC Registry) is an implementation of the weakness classification scheme proposed in EIP-1470. It is loosely aligned to the terminologies and structure used in the Common Weakness Enumeration (CWE) while overlaying a wide range of weakness variants that are specific to smart contracts.

ID	Severity	Name	File	location
SWC-100	Pass	Function Default Visibility	PINKEREUM.sol	L: 0 C: 0
SWC-101	Pass	Integer Overflow and Underflow.	PINKEREUM.sol	L: 0 C: 0
SWC-102	Pass	Outdated Compiler Version file.	PINKEREUM.sol	L: 0 C: 0
SWC-103	Pass	A floating pragma is set.	PINKEREUM.sol	L: 0 C: 0
SWC-104	Pass	Unchecked Call Return Value.	PINKEREUM.sol	L: 0 C: 0
SWC-105	Pass	Unprotected Ether Withdrawal.	PINKEREUM.sol	L: 0 C: 0
SWC-106	Pass	Unprotected SELFDESTRUCT Instruction	PINKEREUM.sol	L: 0 C: 0
SWC-107	Pass	Read of persistent state following external call.	PINKEREUM.sol	L: 0 C: 0
SWC-108	Pass	State variable visibility is not set	PINKEREUM.sol	L: 0 C: 0
SWC-109	Pass	Uninitialized Storage Pointer.	PINKEREUM.sol	L: 0 C: 0
SWC-110	Pass	Assert Violation.	PINKEREUM.sol	L: 0 C: 0





ID	Severity	Name	File	location
SWC-111	Pass	Use of Deprecated Solidity Functions.	PINKEREUM.sol	L: 0 C: 0
SWC-112	Pass	Delegate Call to Untrusted Callee.	PINKEREUM.sol	L: 0 C: 0
SWC-113	Pass	Multiple calls are executed in the same transaction.	PINKEREUM.sol	L: 0 C: 0
SWC-114	Pass	Transaction Order Dependence.	PINKEREUM.sol	L: 0 C: 0
SWC-115	Pass	Authorization through tx.origin.	PINKEREUM.sol	L: 0 C: 0
SWC-116	Pass	A control flow decision is made based on The block.timestamp environment variable.	PINKEREUM.sol	L: 0 C: 0
SWC-117	Pass	Signature Malleability.	PINKEREUM.sol	L: 0 C: 0
SWC-118	Pass	Incorrect Constructor Name.	PINKEREUM.sol	L: 0 C: 0
SWC-119	Pass	Shadowing State Variables.	PINKEREUM.sol	L: 0 C: 0
SWC-120	Pass	Potential use of block.number as source of randonmness.	PINKEREUM.sol	L: 0 C: 0
SWC-121	Pass	Missing Protection against Signature Replay Attacks.	PINKEREUM.sol	L: 0 C: 0
SWC-122	Pass	Lack of Proper Signature Verification.	PINKEREUM.sol	L: 0 C: 0
SWC-123	Pass	Requirement Violation.	PINKEREUM.sol	L: 0 C: 0
SWC-124	Pass	Write to Arbitrary Storage Location.	PINKEREUM.sol	L: 0 C: 0
SWC-125	Pass	Incorrect Inheritance Order.	PINKEREUM.sol	L: 0 C: 0





ID	Severity	Name	File	location
SWC-126	Pass	Insufficient Gas Griefing.	PINKEREUM.sol	L: 0 C: 0
SWC-127	Pass	Arbitrary Jump with Function Type Variable.	PINKEREUM.sol	L: 0 C: 0
SWC-128	Pass	DoS With Block Gas Limit.	PINKEREUM.sol	L: 0 C: 0
SWC-129	Pass	Typographical Error.	PINKEREUM.sol	L: 0 C: 0
SWC-130	Pass	Right-To-Left-Override control character (U +202E).	PINKEREUM.sol	L: 0 C: 0
SWC-131	Pass	Presence of unused variables.	PINKEREUM.sol	L: 0 C: 0
SWC-132	Pass	Unexpected Ether balance.	PINKEREUM.sol	L: 0 C: 0
SWC-133	Pass	Hash Collisions with Multiple Variable Length Arguments.	PINKEREUM.sol	L: 0 C: 0
SWC-134	Pass	Message call with hardcoded gas amount.	PINKEREUM.sol	L: 0 C: 0
SWC-135	Pass	Code With No Effects (Irrelevant/Dead Code).	PINKEREUM.sol	L: 0 C: 0
SWC-136	Pass	Unencrypted Private Data On-Chain.	PINKEREUM.sol	L: 0 C: 0

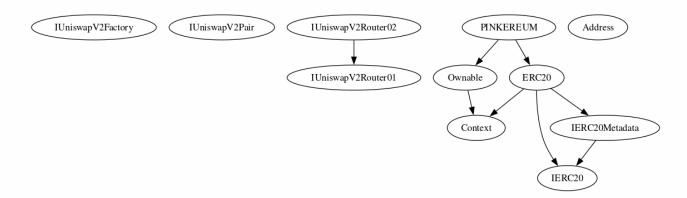
We scan the contract for additional security issues using MYTHX and industry-standard security scanning tools.





# **Inheritance**

The contract for PINKEREUM has the following inheritance structure.





# **Smart Contract Advance Checks**

ID	Severity	Name	Result	Status
PINKEREUM -01	Minor	Potential Sandwich Attacks.	Pass	Not-Found
PINKEREUM -02	Minor	Function Visibility Optimization	Pass	Not-Detected
PINKEREUM -03	Critical	Lack of Input Validation.	Fail	Detected
PINKEREUM -04	Major	Centralized Risk In addLiquidity.	Pass	Not-Detected
PINKEREUM -05	Critical	Missing Event Emission.	Fail	Detected
PINKEREUM -06	Minor	Conformance with Solidity Naming Conventions.	Pass	Not-Detected
PINKEREUM -07	Minor	State Variables could be Declared Constant.	Pass	Not-Found
PINKEREUM -08	Minor	Dead Code Elimination.	Pass	Not-Found
PINKEREUM -09	Major	Third Party Dependencies.	Pass	Not-Found
PINKEREUM -10	Major	Initial Token Distribution.	Pass	Not-Found
PINKEREUM -11	Minor	Multisend is present in code.	Pass	Not-Detected
PINKEREUM -12	Major	Centralization Risks In The X Role	Pass	Not-Found
PINKEREUM -13	Informational	Extra Gas Cost For User	Pass	Not-Found





ID	Severity	Name	Result	Status
PINKEREUM -6	Minor	Unnecessary Use Of SafeMath	Pass	Not-Detected
PINKEREUM -15	Medium	Symbol Length Limitation due to Solidity Naming Standards.	Pass	Not-Found
PINKEREUM -16	Meduium	Invalid collection of Taxes during Transfer.	Pass	Not-Detected
PINKEREUM -17	Informational	Conformance to numeric notation best practice.	Pass	Not-Found
PINKEREUM -18	Minor	Stop Transactions by using Enable Trade.	Pass	Not-Detected





# PINKEREUM-03 | Lack of Input Validation.

Category	Severity	Location	Status
Volatile Code	Critical	PINKEREUM.sol: 125,14	Detected

#### **Description**

The given input is missing the check for the non-zero address.

The given input is missing the check for the unSetPair is missing required function.

#### Remediation

We advise the client to add the check for the passed-in values to prevent unexpected errors as below:

```
...
require(receiver != address(0), "Receiver is the zero address");
...
...
require(value X limitation, "Your not able to do this function");
```

We also recommend customer to review the following function that is missing a required validation. unSetPair is missing required function.





# PINKEREUM-05 | Missing Event Emission.

(	Category	Severity	Location	Status
	Volatile Code	Critical	PINKEREUM.sol: 125, 14	Detected

### **Description**

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes. The linked code does not create an event for the transfer.

#### Remediation

Emit an event for critical parameter changes. It is recommended emitting events for the sensitive functions that are controlled by centralization roles.





# Technical Findings Summary

## **Classification of Risk**

Severity	Description
Critical	Risks are those that impact the safe functioning of a platform and must be addressed before launch. Users should not invest in any project with outstanding critical risks.
Major	Risks can include centralization issues and logical errors. Under specific circumstances, these major risks can lead to loss of funds and/or control of the project.
<ul><li>Medium</li></ul>	Risks may not pose a direct risk to users' funds, but they can affect the overall functioning of a platform
Minor	Risks can be any of the above but on a smaller scale. They generally do not compromise the overall integrity of the Project, but they may be less efficient than other solutions.
<ul><li>Informational</li></ul>	Errors are often recommended to improve the code's style or certain operations to fall within industry best practices. They usually do not affect the overall functioning of the code.

# **Findings**

Severity	Found	Pending	Resolved
Critical	0	0	0
Major	0	0	0
Medium	0	0	0
Minor	2	0	0
<ul><li>Informational</li></ul>	0	0	0
Total	2	0	-0





# **Social Media Checks**

Social Media	URL	Result
Twitter	https://twitter.com/pinkereum	Pass
Other		Fail
Website	https://pinkereum.io	Pass
Telegram	https://t.me/PINKEREUM_PORTAL	Pass

We recommend to have 3 or more social media sources including a completed working websites.

**Social Media Information Notes:** 

**Auditor Notes: undefined** 

**Project Owner Notes:** 







# **Assessment Results**

### **Score Results**

Review	Score
Overall Score	91/100
Auditor Score	84/100
Review by Section	Score
Manual Scan Score	36/53
SWC Scan Score	37/37
Advance Check Score	18 /19

The Following Score System Has been Added to this page to help understand the value of the audit, the maximun score is 100, however to attain that value the project most pass and provide all the data needed for the assessment. Our Passing Score has been changed to 80 Points, if a project does not attain 80% is an automatic failure. Read our notes and final assessment below.

## **Audit Passed**







## **Assessment Results**

# **Important Notes:**

- Owner can't set max tx amount.
- No high-risk Exploits/Vulnerabilities Were Found in the Source Code.

# Auditor Score =84 Audit Passed







# **Appendix**

# **Finding Categories**

#### **Centralization / Privilege**

Centralization / Privilege findings refer to either feature logic or implementation of components that actagainst the nature of decentralization, such as explicit ownership or specialized access roles incombination with a mechanism to relocate funds.

#### **Gas Optimization**

Gas Optimization findings do not affect the functionality of the code but generate different, more optimalEVM opcodes resulting in a reduction on the total gas cost of a transaction.

#### **Logical Issue**

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on howblock.timestamp works.

#### **Control Flow**

Control Flow findings concern the access control imposed on functions, such as owneronly functionsbeing invoke-able by anyone under certain circumstances.

#### **Volatile Code**

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that mayresult in a vulnerability.

#### **Coding Style**

Coding Style findings usually do not affect the generated byte-code but rather comment on how to makethe codebase more legible and, as a result, easily maintainable.

#### **Inconsistency**

Inconsistency findings refer to functions that should seemingly behave similarly yet contain different code, such as a constructor assignment imposing different require statements on the input variables than a setterfunction.

### **Coding Best Practices**

ERC 20 Conding Standards are a set of rules that each developer should follow to ensure the code meet a set of creterias and is readable by all the developers.





## Disclaimer

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