MOTECH AUDIT

SMART CONTRACT SECURITY AUDIT

SECURITY ASSESSMENT

2021

TRICKLE TOKEN AUDIT REPORT

8 DEC 2021

SECURITY ASSESMENT

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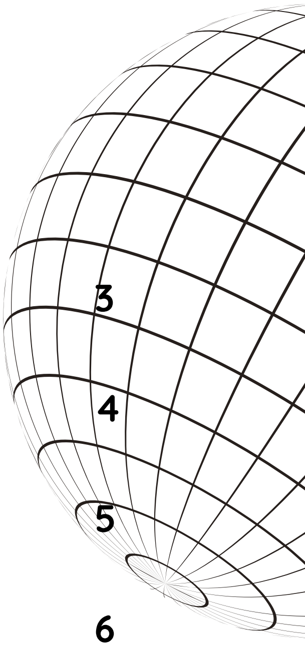

SECURITY ASSESMENT

SUMMARY

This report has been prepared for Trickle to discover issues and vulnerabilities in the source code of the Trickle project as well as any contract dependencies that were not part of an officially recognized library. A comprehensive examination has been performed, utilizing Static Analysis, Manual Review, and Testnet Deployment techniques.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

The security assessment resulted in findings that ranged from critical to informational. We recommend addressing these findings to ensure a high level of security standards and industry practices. We suggest recommendations that could better serve the project from the security perspective:

- Enhance general coding practices for better structures of source codes;
- Add enough unit tests to cover the possible use cases given they are currently missing in the repository;
- Provide more comments per each function for readability, especially contracts are verified in public;
- Provide more transparency on privileged activities once the protocol is live.

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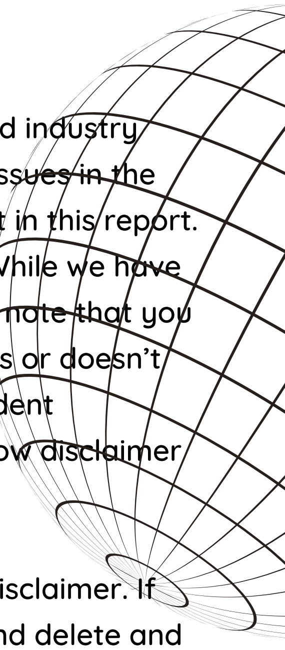
DISCLAIMER



This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

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BACKGROUND

MotechAudit was commissioned by Trickle to perform an audit of smart contracts:
https://bscscan.com/address/0xB8B932D41d6bE935Ce1666AAF41f056093F9faeE
The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

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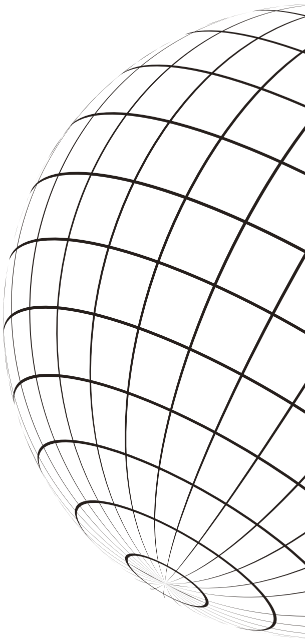
AUDIT DETAILS



AUDITED PROJECT

Trickle

DEPLOYER ADDRESS

0x4f8603db76538642F45d54e1b0b63A40f9fe4b02

CLIENT CONTACTS:

Trickle Team

BLOCKCHAIN

BSC Project

WEBSITE:

http://www.trickle.cloud/

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CONTRACT DETAILS

Token contract details for Nov-22-2021

Contract name	**Trickle**
Contract address	**0xB8B932D41d6bE935Ce1666AAF41f056093F9faeE**
Total supply	**500,000,000 H2O**
Token ticker	**Trickle (H2O)**
Decimals	**18**
Token holders	**1,064**
Transactions count	**3,760**
Top 100 holders dominance	**99.82%**
Contract deployer address	**0x4f8603db76538642F45d54e1b0b63A40f9fe4b02**
Contract's current owner address	**0x4f8603db76538642F45d54e1b0b63A40f9fe4b02**

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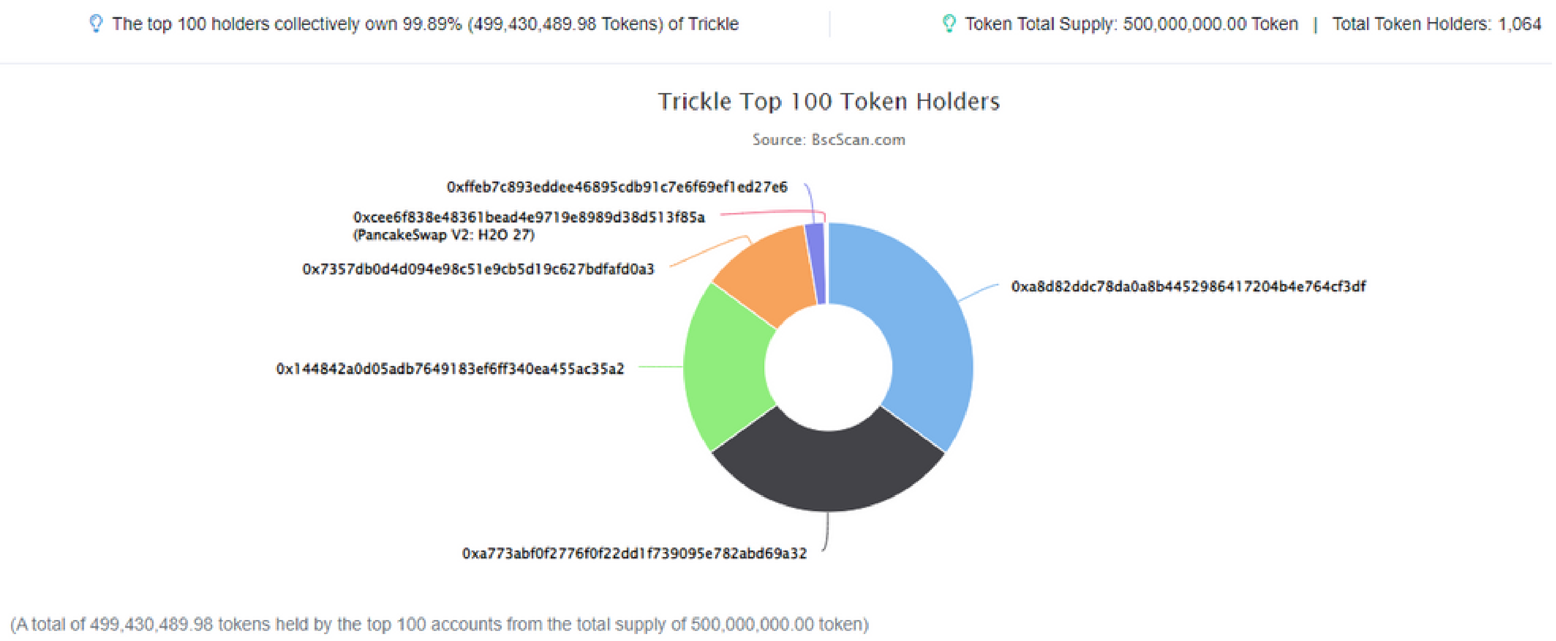
TRICKLE TOKEN DISTRIBUTION



The top 100 holders collectively own 99.89% (499,430,489.98 Tokens) of Trickle

Token Total Supply: 500,000,000.00 Token | Total Token Holders: 1,064

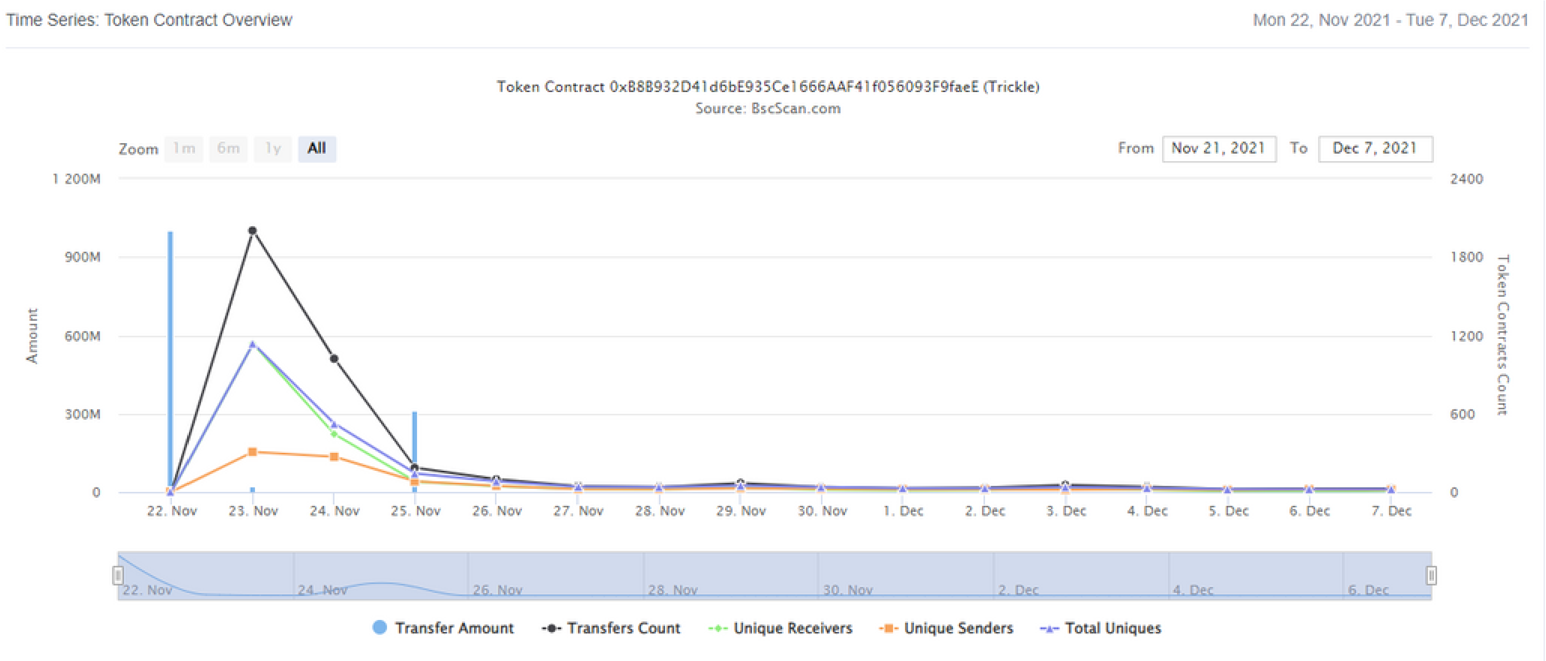
Trickle Top 100 Token Holders

Source: BscScan.com

0xffeb7c893eddee46895cdb91c7e6f69ef1ed27e6
0xcee6f838e48361bead4e9719e8989d38d513f85a
(PancakeSwap V2: H2O 27)
0x7357db0d4d094e98c51e9cb5d19c627bdfafd0a3
0xa8d82ddc78da0a8b4452986417204b4e764cf3df
0x144842a0d05adb7649183ef6ff340ea455ac35a2
0xa773abf0f2776f0f22dd1f739095e782abd69a32

(A total of 499,430,489.98 tokens held by the top 100 accounts from the total supply of 500,000,000.00 token)

TRICKLE TOKEN CONTRACT INTERACTION DETAILS



Time Series: Token Contract Overview

Mon 22, Nov 2021 - Tue 7, Dec 2021

Token Contract 0xB8B932D41d6bE935Ce1666AAF41f056093F9faeE (Trickle)

Source: BscScan.com

Zoom: All

From: Nov 21, 2021 To: Dec 7, 2021

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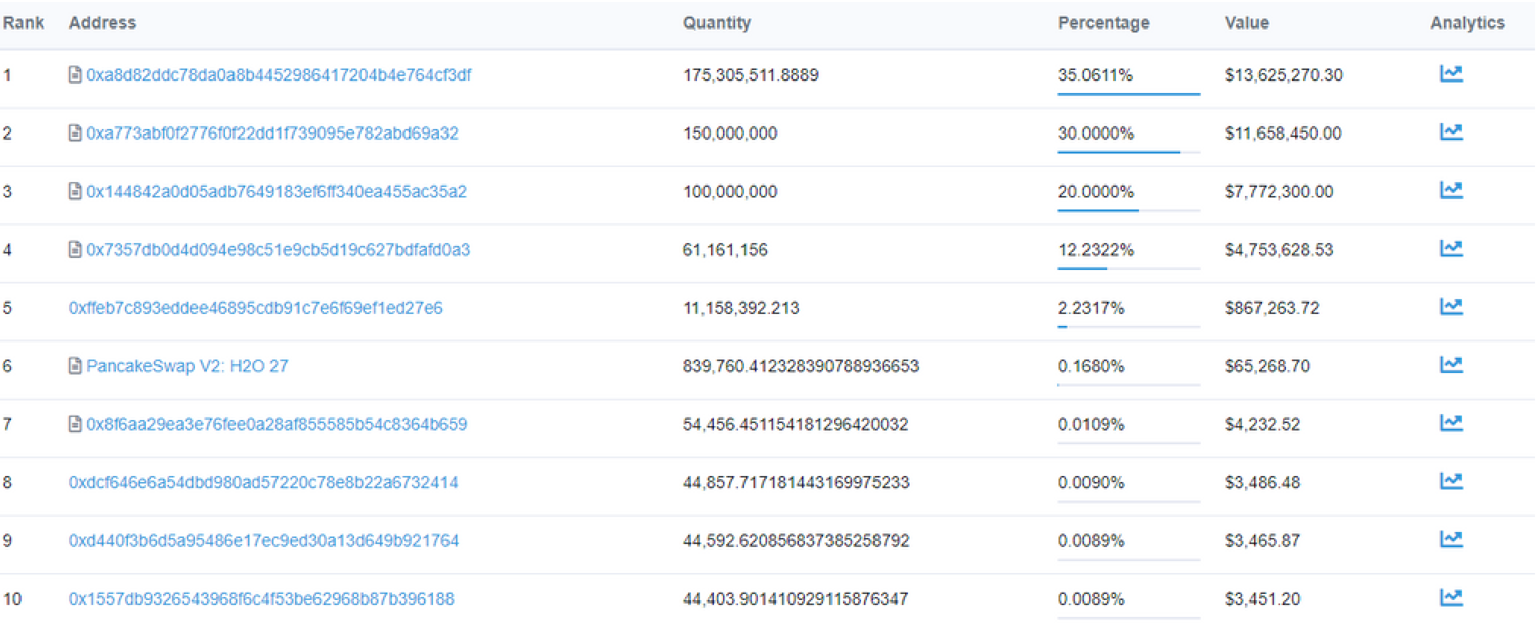
TOP 10 TOKEN HOLDERS



Rank	Address	Quantity	Percentage	Value	Analytics
1	0xa8d82ddc78da0a8b4452986417204b4e764cf3df	175,305,511.8889	35.0611%	$13,625,270.30	📈
2	0xa773abf0f2776f0f22dd1f739095e782abd69a32	150,000,000	30.0000%	$11,658,450.00	📈
3	0x144842a0d05adb7649183ef6ff340ea455ac35a2	100,000,000	20.0000%	$7,772,300.00	📈
4	0x7357db0d4d094e98c51e9cb5d19c627bdfafd0a3	61,161,156	12.2322%	$4,753,628.53	📈
5	0xffeb7c893eddee46895cdb91c7e6f69ef1ed27e6	11,158,392.213	2.2317%	$867,263.72	📈
6	PancakeSwap V2: H2O 27	839,760.412328390788936653	0.1680%	$65,268.70	📈
7	0x8f6aa29ea3e76fee0a28af855585b54c8364b659	54,456.451154181296420032	0.0109%	$4,232.52	📈
8	0xdcf646e6a54dbd980ad57220c78e8b22a6732414	44,857.717181443169975233	0.0090%	$3,486.48	📈
9	0xd440f3b6d5a95486e17ec9ed30a13d649b921764	44,592.620856837385258792	0.0089%	$3,465.87	📈
10	0x1557db9326543968f6c4f53be62968b87b396188	44,403.901410929115876347	0.0089%	$3,451.20	📈

source:https://bscscan.com/

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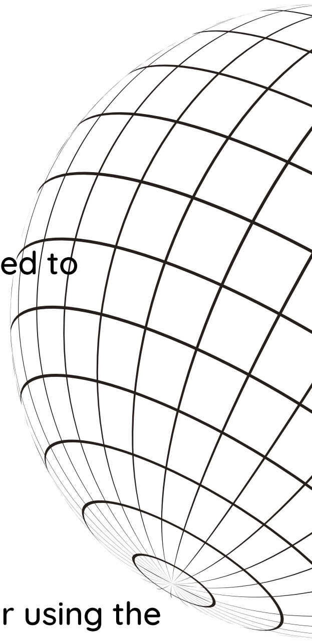
SECURITY ISSUES



High Severity Issues

All token transfers can be stopped by owners. Such functionality can be used to manipulate the market

Contracts: Trickle.sol

Functions: pause

Recommendation: The owner must be a contract with transparent rules for using the pause function. Else remove this function.

Medium Severity Issues

No high severity issues found.

Low Severity Issues

“hardhat/console.sol” is imported but never used

Contracts: Trickle.sol

Recommendation: remove unused import.

Status: fixed.

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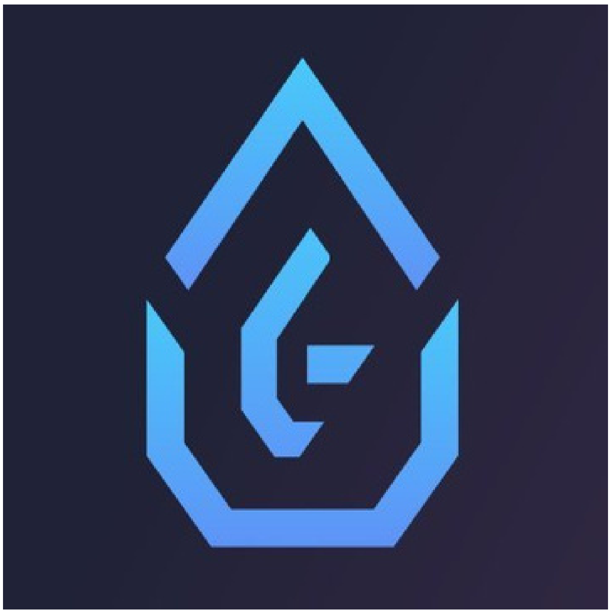
TOKEN LOGO



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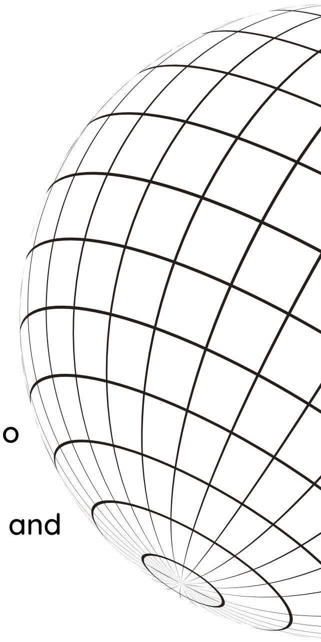
CONCLUSION

Smart contracts contain owner privileges!



Motech Audit note: Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.