



# SPYWOLF

## Security Audit Report



Audit prepared for  
**HapNeiro**

Completed on  
**November 13, 2024**

@SPYWOLFNETWORK



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SPYWOLF.CO





# OVERVIEW

This goal of this report is to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

*The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal*

- SPYWOLF Team -

”





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# HapNeiro



## PROJECT DESCRIPTION:

No information yet

**Release Date:** November 2, 2024

**Launchpad:** Fairlaunch

**Category:** Dividend token

01



# KEY RESULTS

Cannot mint new tokens	*
Cannot pause trading (honeypot)	<b>NOT PASSED</b>
Cannot blacklist an address	<b>PASSED</b>
Cannot raise taxes over 25%?	<b>PASSED</b>
No proxy contract detected	<b>PASSED</b>
Not required to enable trading	<b>PASSED</b>
No hidden ownership	<b>PASSED</b>
Cannot change the router	<b>PASSED</b>
No cooldown feature found	**
Bot protection delay is lower than 5 blocks	<b>PASSED</b>
Cannot set max tx amount below 0.05% of total supply	<b>PASSED</b>
The contract cannot be self-destructed by owner	<b>PASSED</b>

For a more detailed and thorough examination of the heightened risks, refer to the subsequent parts of the report.

**Contract can turn into honeypot for users that supply liquidity - impossible to retrieve HapNeiro/USDT tokens back.**

\*New tokens can be minted based on user's dividend token holdings

\*\* Token cannot be bought and sold in the same block



# CONTRACT INFO

Token Name  
HapNeiro

Symbol  
HapNeiro

Contract Address  
0xd63B34B48AF447f36BE3f738819446424487c397

Network  
BSC

Language  
Solidity

Deployment Date  
Nov 02, 2024

Contract Type  
Dividend

Total Supply  
15,397,602

Decimals  
18

## TAXES

Buy Tax  
**3%**

Sell Tax  
**3%**

\*Taxes cannot be changed



## Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ 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.

### Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



# SMART CONTRACT STATS

Calls Count	39305
External calls	8527
Internal calls	30778
Transactions count	17565
Last transaction time	2024-11-13 14:00:32 UTC
Deployment Date	2024-11-06 00:06:50 UTC
Create TX	0xcdfa18c99aacdec56492504fcd7957a2856ff944b43026e9046b85eb17b121f
Owner	0x00
Deployer	0xA7a5947CAa6Cd4B73c1fC2c2F7B6B14dCd643353

# TOKEN TRANSFERS STATS

Transfer Count	88634
Total Amount	98291627.42873359 HapNeiro
Median Transfer Amount	28.777417272643024 HapNeiro
Average Transfer Amount	1108.9607535340117 HapNeiro
First transfer date	2024-11-02
Last transfer date	2024-11-13
Days token transferred	12 Days



# FEATURED WALLETS

Owner address	Ownership is renounced 0x00
Marketing fee receiver	0x71F914A4907DBBEA4b4574adA8Ab33013724b509 0xfEDfc8Ac8D5106a7A942F06dde074467E32268BE 0xf75B3Dd75A2272fdA1528027d35483E6917D07ca
LP address	<b>Pancakeswap:</b> 0x0dB963e6E63724AdFCD6eE2380ADCF61267aA9B1 <b>32.34% locked in PinkLock - unlocks at Saturday, May 10, 2025</b>

# TOP 3 UNLOCKED WALLETS

6.10%	0x2941466238F1b8457Eab49cc1A0D8f827F31281E
0.5%	0x11BCC295F6EB83DEE5bd374F4813de58341575aA
0.19%	0xA7E8A0d3954F73A1c09CE4efb33F386aDEB65E63





# VULNERABILITY ANALYSIS

ID	Title	
SWC-100	Function Default Visibility	Passed
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version	Passed
SWC-103	Floating Pragma	Passed
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected Ether Withdrawal	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed
SWC-107	Reentrancy	Passed
SWC-108	State Variable Default Visibility	Passed
SWC-109	Uninitialized Storage Pointer	Passed
SWC-110	Assert Violation	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed
SWC-112	Delegatecall to Untrusted Callee	Passed
SWC-113	DoS with Failed Call	Passed
SWC-114	Transaction Order Dependence	Passed
SWC-115	Authorization through tx.origin	Passed
SWC-116	Block values as a proxy for time	Passed
SWC-117	Signature Malleability	Passed
SWC-118	Incorrect Constructor Name	Passed



# VULNERABILITY ANALYSIS

ID	Title	
SWC-119	Shadowing State Variables	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed
SWC-121	Missing Protection against Signature Replay Attacks	Passed
SWC-122	Lack of Proper Signature Verification	Passed
SWC-123	Requirement Violation	Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Griefing	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed
SWC-128	DoS With Block Gas Limit	Passed
SWC-129	Typographical Error	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed
SWC-131	Presence of unused variables	Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed
SWC-134	Message call with hardcoded gas amount	Passed
SWC-135	Code With No Effects	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed



# VULNERABILITY ANALYSIS

## NO ERRORS FOUND



# MANUAL CODE REVIEW

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When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time.

We categorize these vulnerabilities by 4 different threat levels.

## THREAT LEVELS

### High Risk

---

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

### Medium Risk

---

Issues on this level are critical to the smart contract's performance, functionality and should be fixed before moving to a live environment.

### Low Risk

---

Issues on this level are minor details and warning that can remain unfixed.

### Informational

---

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

**Code Score: 30%**



# FOUND THREATS

## High Risk: 2

No high risk-level threats found in this contract.

## Medium Risk: 1

No medium risk-level threats found in this contract.

## Low Risk: 0

No low risk-level threats found in this contract.

Contract's ownership is renounced.  
Limited functionality can be used by the Dev (deployer) wallet.



# FOUND THREATS

## High Risk

When users adds liquidity twice, only the second time is counted and the first one is nullified. Scenario:

User adds 1000 USDT paired with HapNeiro one time

The second time user adds 100 USDT paired with HapNeiro

When user decides to quit his position he will be able to only retrieve 100 USDT with corresponding amount HapNeiro. 1000 USDT will be stuck in the liquidity pair.

When users add liquidity with order HapNeiro/USDT instead of USDT/HapNeiro no dividend tracker will be minted and t

This will renders it impossible to withdraw the liquidity which is added first

If token's deployer alter user's stats from `initLpAmounts()` function at time when user is already added liquidity, user will not be able to retrieve the liquidity back.



# FOUND THREATS

## ⚠ High Risk

Overflow occurs in `addOrRemove (_userInfo[from/to].lpAmount)` and liquidity add remain undetected if the order is HapNeiro/USDT instead of USDT/HapNeiro.

This renders liquidity removal impossible if `_userInfo[from/to].lpAmount` is not changed manually for each individual investor by the deployer.

```
function _transfer(address from, address to, uint256 amount) internal override {
    require(from != address(0), "ERC20: transfer from the zero address");
    require(to != address(0), "ERC20: transfer to the zero address");
    require(balanceOf(from) >= amount, "error");
    .....
    (bool isAddLP, bool isRemoveLP) = addOrRemove(from, to, amount);
    processMine(from);
    processMine(to);
    .....
}

function addOrRemove(address from, address to, uint256 amount) internal returns (bool isAddLP, bool isRemoveLP) {
    .....
    uint256 addLPLiquidity;

    addLPLiquidity = _isAddLiquidity(to, addAmount);
    if (addLPLiquidity > 0) {
        isAddLP = true;
        _userInfo[from].lpAmount += addLPLiquidity;
        try
            lpTracker.setBalance(
                payable(from),
                _userInfo[from].lpAmount
            )
        {} catch {}
        try
            minerTracker.setBalance(
                payable(from),
                _userInfo[from].lpAmount
            )
        {} catch {}
    }

    uint256 removeLPLiquidity;
    if (from == uniswapV2Pair) {
        removeLPLiquidity = _isRemoveLiquidity(from, amount);
    }
    if (removeLPLiquidity > 0 && !_isExcludedFromFees[to]) {
        require(_userInfo[to].lpAmount >= removeLPLiquidity, "lp min");
        isRemoveLP = true;
        _userInfo[to].lpAmount -= removeLPLiquidity;
        try
            lpTracker.setBalance(payable(to), _userInfo[to].lpAmount)
        {} catch {}
        try
            minerTracker.setBalance(payable(to), _userInfo[to].lpAmount)
        {} catch {}
    }
}
```



# FOUND THREATS

## ⚠ High Risk

Dev wallet (deployer) can alter user's 'lp dividend tracker' and 'miner dividend tracker' holdings.

New HapNeiro tokens are minted (mined) based on user's 'miner dividend tracker' holdings.

Over time this may lead to token inflation and liquidity drain.

Up to 50,000 tokens can be minted each 24 hours.

Each 30 days mintable tokens are cut in half.

If user's `userInfo.lpAmount` is set to 0 at the time when the user is currently adding liquidity, user won't be able to remove his liquidity.

```
function initLPAmounts(  
    address[] memory accounts,  
    uint256 lpAmounts  
) public onlyDev {  
    uint256 len = accounts.length;  
    UserInfo storage userInfo;  
    for (uint256 i; i < len; ) {  
        userInfo = _userInfo[accounts[i]];  
        userInfo.lpAmount = lpAmounts;  
        lpTracker.setBalance(payable(accounts[i]), userInfo.lpAmount);  
        minerTracker.setBalance(payable(accounts[i]), userInfo.lpAmount);  
        unchecked {  
            ++i;  
        }  
    }  
}
```





# FOUND THREATS

## Informational: 1

Dev wallet (deployer) can withdraw any tokens from the contract. When this function is present, in cases tokens and/or BNB are sent into the contract by mistake or purposefully, contract's deployer can retrieve them.

```
function claimStuckToken(address _token, uint256 _amount) public onlyDev {  
    IERC20(_token).transfer(msg.sender, _amount);  
}  
  
function claimStuckETH() public onlyDev {  
    payable(msg.sender).transfer(address(this).balance);  
}
```

Each 30 days after the initial launch, mintable supply will reduce in half. Current mintable supply per day is 50,000.

```
function _transfer(  
    address from,  
    address to,  
    uint256 amount  
) internal override {  
    .....  
    if (block.timestamp >= halfTS) {  
        mineAmountOneDay = mineAmountOneDay / 2;  
        halfTS = halfTS + 30 days;  
    }  
    .....  
}
```



The following tokenomics are based on BSCScan:

Tokenomics:

Burnt - 42.1%,

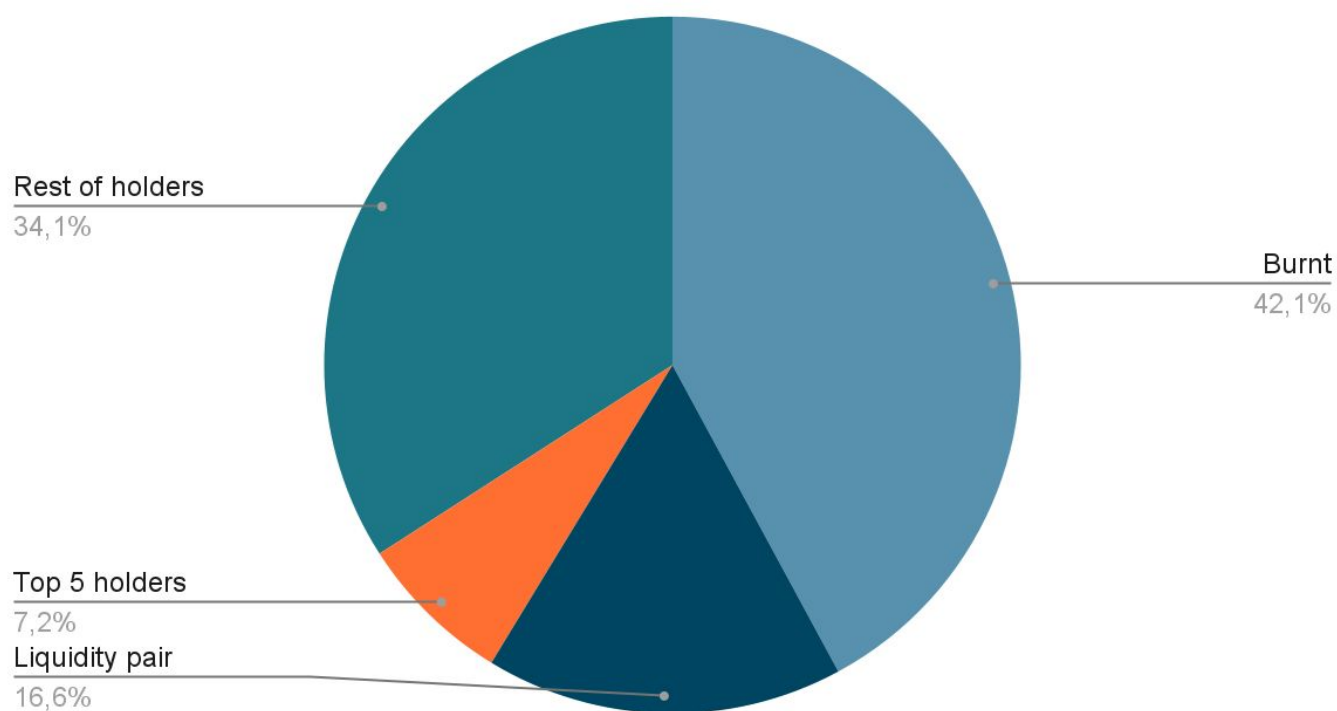
Liquidity pair - 16.6%,

Top 5 holders - 7.2%,

Rest of holders - 34.1%,

## Token Distribution

Tokens distribution



TOKENOMICS



# WEBSITE

**Website URL:**  
unavailable

**Domain Registry**  
<https://www.godaddy.com>

**Domain Expiration**  
unavailable

**Technical SEO Test**  
Passed

**Security Test**  
Passed. SSL certificate present

**Design**  
unavailable

**Content**  
unavailable

**Whitepaper**  
unavailable

**Roadmap**  
unavailable

**Mobile-friendly?**  
unavailable



**Website Score: 0%**



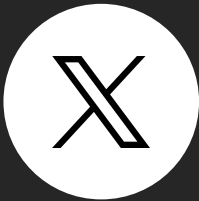
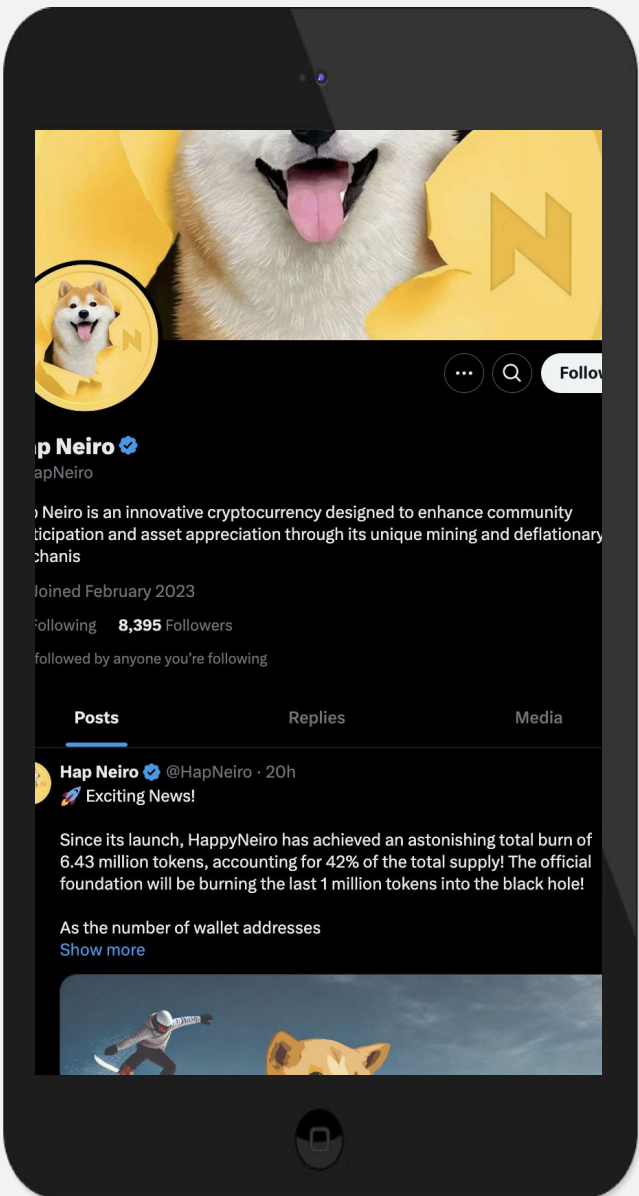
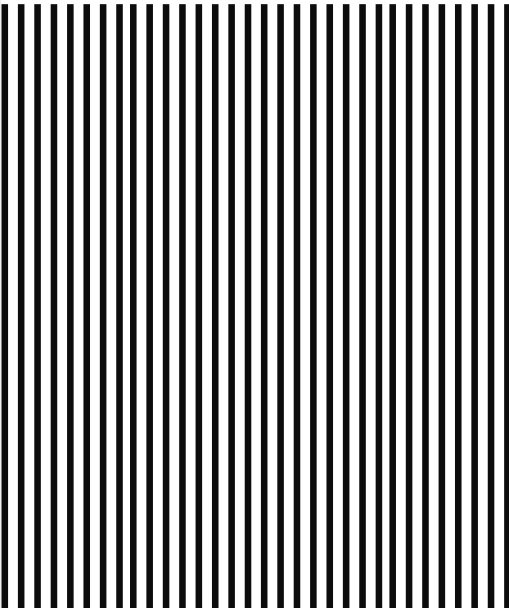
# SOCIAL MEDIA

Social Score: 100%



## ANALYSIS

Project's social media pages are active



Twitter:

@HapNeiro

- 8 194 followers
- Posts frequently
- Active



Discord

Unavailable



Telegram:

Unavailable



Medium

Unavailable



# SPYWOLF

## CRYPTO SECURITY

Audits | KYCs | dApps  
Contract Development

# ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 700 SUCCESSFUL CLIENTS
- ✓ MORE THAN 1000 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
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# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency 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 disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.

