

# ADVANCE MANUAL SMART CONTRACT AUDIT



**Project:** Future Gold

Website: hold4gold.org



**BlockSAFU Score:** 

95

**Contract Address:** 

0xD5Ec1460807EEEe1a1fde79019589C0562afaD99

# **DISCLAMER**

BlockSAFU has completed this report to provide a summary of the Smart Contract functions, and any security, dependency, or cybersecurity vulnerabilities. This is often a constrained report on our discoveries based on our investigation and understanding of the current programming versions as of this report's date. To understand the full scope of our analysis, it is vital for you to at the date of this report. To understand the full scope of our analysis, you need to review the complete report. Although we have done our best in conducting our investigation and creating this report, it is vital to note that you should not depend on this report and cannot make any claim against BlockSAFU or its Subsidiaries and Team members on the premise of what has or has not been included in the report. Please remember to conduct your independent examinations before making any investment choices. We do not provide investment advice or in any way claim to determine if the project will be successful or not.

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#### ABOUT THE AUDITOR:

BlockSAFU (BSAFU) is an Anti-Scam Token Utility that reviews Smart Contracts and Token information to Identify Rug Pull and Honey Pot scamming activity. BlockSAFUs Development Team consists of several Smart Contract creators, Auditors Developers, and Blockchain experts. BlockSAFU provides solutions, prevents, and hunts down scammers. BSAFU is a utility token with features Audit, KYC, Token Generators, and Bounty Scammers. It will enrich the crypto ecosystem.



# **OVERVIEW**

BlockSAFU was commissioned by Future Gold to complete a Smart Contract audit. The objective of the Audit is to achieve the following:

- Review the Project and experience and Development team
- Ensure that the Smart Contract functions are necessary and operate as intended.
- Identify any vulnerabilities in the Smart Contract code.

DISCLAIMER: This Audit is intended to inform about token Contract Risks, the result does not imply an endorsement or provide financial advice in any way, all investments are made at your own risk. (https://blocksafu.com/)

# **SMART CONTRACT REVIEW**

Token Name	Future Gold
Token Symbol	FutureGold
Token Decimal	18
Total Supply	2,000,000,000 FutureGold
Contract Address	0xD5Ec1460807EEEe1a1fde79019589C0562afaD99
Deployer Address	0xF8868B932B6E1A8D5Acb5615E35Bcb1D0933177e
Owner Address	0xF8868B932B6E1A8D5Acb5615E35Bcb1D0933177e
Tax Fees Buy	9%
Tax Fees Sell	9%
Gas Used for Buy	will be updated after the DEX listing
Gas Used for Sell	will be updated after the DEX listing
Contract Created	Jul-24-2022 02:29:21 AM +UTC
Initial Liquidity	will be updated after the DEX listing
Liquidity Status	Locked
Unlocked Date	will be updated after the DEX listing
Verified CA	Yes
Compiler	v0.8.4+commit.c7e474f2
Optimization	Yes with 200 runs
Sol License	MIT License
Top 5 Holders	will be updated after the DEX listing
Other	default evmVersion

# **TAX**

BUY	9%	SELL	9%
<b>Liquidity Fee</b>	1%	Liquidity Fee	1%
<b>Marketing Fee</b>	4%	Marketing Fee	4%
Reward Fee	4%	Reward Fee	4%

# **TOP HOLDER**

Rank	Address	Quantity	Percentage	Analytics
1	0xt8868b932b6e1a8d5acb5615e35bcb1d0933177e	1,965,000,000	98.2500%	<u>l</u>
2	0x08a013b4c77fd534023015ff9d84ebe4e6dc683f	35,000,000	1.7500%	<u> </u>
				[Download GSV Expert ±]

# **Team Review**

The Future Gold team has a nice website, their website is professionally built and the Smart contract is well developed, their social media is growing with over 4,250 people in their telegram group (count in audit date).

# OFFICIAL WEBSITE AND SOCIAL MEDIA

Website: https://hold4gold.org/

Telegram Group: https://t.me/futuregoldann

Twitter: https://twitter.com/futuregoldann



#### **MANUAL CODE REVIEW**

Minor-risk

1 minor-risk code issue found

Could be fixed, and will not bring problems.

1. The return value of an external transfer/transferFrom return value is checked. Recommendation: use SafeERC20, or ensure that the transfer/transferFrom return value is checked

function transferFrom(
 address sender,
 address recipient,
 uint256 amount
) external returns (bool);

Medium-risk

O medium-risk code issues found Should be fixed, could bring problems.

High-Risk

O high-risk code issues found

Must be fixed, and will bring problem.

Critical-RiskO critical-risk code issues found

Must be fixed, and will oblem.

#### **EXTRA NOTES SMART CONTRACT**

#### 1. IERC20

```
interface IERC20 {
   * @dev Returns the number of tokens in existence.
  function totalSupply() external view returns (uint256);
  function balanceOf(address account) external view returns (uint256);
  function transfer(address recipient, uint256 amount) external returns (bool);
  function allowance(address owner, address spender) external view returns (uint256);
  function approve(address spender, uint256 amount) external returns (bool);
  function transferFrom(
    address sender,
    address recipient,
    uint256 amount
  ) external returns (bool);
   * @dev Emitted when `value` tokens are moved from one account (`from`) to
   * another (`to`).
   * Note that `value` may be zero.
  event Transfer(address indexed from, address indexed to, uint256 value);
}
```

**IERC20 Normal Base Template** 

#### 2. SafeMath Contract

```
library SafeMath {
    function add(uint256 a, uint256 b) internal pure returns
(uint256) {
        uint256 c = a + b;
        require(c >= a, "SafeMath: addition overflow");
        return c;
    }
    function sub(uint256 a, uint256 b, string memory errorMessage)
internal pure returns (uint256) {
        require(b <= a, errorMessage);</pre>
        uint256 c = a - b;
        return c;
    }
    /**
     * @dev Returns the multiplication of two unsigned integers,
reverting on
     * overflow.
     * Counterpart to Solidity's `*` operator.
     * Requirements:
     * - Multiplication cannot overflow.
     */
    function mod(
        uint256 a,
        uint256 b,
        string memory errorMessage
    ) internal pure returns (uint256) {
        unchecked {
            require(b > 0, errorMessage);
            return a % b;
        }
    }
}
```

#### 3. Future Gold Contract

```
contract BABYTOKENDividendTracker is OwnableUpgradeable,
DividendPayingToken {
    using SafeMath for uint256;
    using SafeMathInt for int256;
    using IterableMapping for IterableMapping.Map;
    IterableMapping.Map private tokenHoldersMap;
    uint256 public lastProcessedIndex;
    mapping(address => bool) public excludedFromDividends;
    mapping(address => uint256) public lastClaimTimes;
    uint256 public claimWait;
    uint256 public minimumTokenBalanceForDividends;
    event ExcludeFromDividends(address indexed account);
    event ClaimWaitUpdated(uint256 indexed newValue, uint256
indexed oldValue);
    event Claim(
        address indexed account,
        uint256 amount,
        bool indexed automatic
    );
    function initialize(
        address rewardToken,
        uint256 minimumTokenBalanceForDividends_
    ) external initializer {
        DividendPayingToken.__DividendPayingToken_init(
            rewardToken ,
            "DIVIDEND TRACKER",
            "DIVIDEND TRACKER"
        );
        claimWait = 3600:
        minimumTokenBalanceForDividends =
minimumTokenBalanceForDividends ;
    }
    function transfer(
```

```
address,
        address,
        uint256
    ) internal pure override {
        require(false, "Dividend Tracker: No transfers allowed");
    }
    function withdrawDividend() public pure override {
        require(
            false,
            "Dividend Tracker: withdrawDividend disabled. Use the
'claim' function on the main BABYTOKEN contract."
        );
    }
    function excludeFromDividends(address account) external
onlyOwner {
        require(!excludedFromDividends[account]);
        excludedFromDividends[account] = true;
        _setBalance(account, 0);
        tokenHoldersMap.remove(account);
        emit ExcludeFromDividends(account);
    }
    function isExcludedFromDividends(address account)
        public
        view
        returns (bool)
    {
        return excludedFromDividends[account];
    }
    function updateClaimWait(uint256 newClaimWait) external
onlyOwner {
        require(
            newClaimWait >= 3600 && newClaimWait <= 86400,</pre>
            "Dividend Tracker: claimWait must be updated to
between 1 and 24 hours"
        );
        require(
```

```
newClaimWait != claimWait,
            "Dividend Tracker: Cannot update claimWait to same
value"
        );
        emit ClaimWaitUpdated(newClaimWait, claimWait);
        claimWait = newClaimWait;
    }
    function updateMinimumTokenBalanceForDividends(uint256 amount)
        external
        onlyOwner
    {
        minimumTokenBalanceForDividends = amount;
    }
    function getLastProcessedIndex() external view returns
(uint256) {
        return lastProcessedIndex;
    }
    function getNumberOfTokenHolders() external view returns
(uint256) {
        return tokenHoldersMap.keys.length;
    }
    function getAccount(address _account)
        public
        view
        returns (
            address account,
            int256 index,
            int256 iterationsUntilProcessed,
            uint256 withdrawableDividends,
            uint256 totalDividends,
            uint256 lastClaimTime,
            uint256 nextClaimTime,
            uint256 secondsUntilAutoClaimAvailable
        )
    {
        account = _account;
        index = tokenHoldersMap.getIndexOfKey(account);
```

```
iterationsUntilProcessed = -1;
        if (index >= 0) {
            if (uint256(index) > lastProcessedIndex) {
                iterationsUntilProcessed = index.sub(
                    int256(lastProcessedIndex)
                );
            } else {
                uint256 processesUntilEndOfArray =
tokenHoldersMap.keys.length >
                    lastProcessedIndex
tokenHoldersMap.keys.length.sub(lastProcessedIndex)
                    : 0;
                iterationsUntilProcessed = index.add(
                    int256(processesUntilEndOfArray)
                );
            }
        }
        withdrawableDividends = withdrawableDividendOf(account);
        totalDividends = accumulativeDividendOf(account);
        lastClaimTime = lastClaimTimes[account];
        nextClaimTime = lastClaimTime > 0 ?
lastClaimTime.add(claimWait) : 0;
        secondsUntilAutoClaimAvailable = nextClaimTime >
block.timestamp
            ? nextClaimTime.sub(block.timestamp)
    }
    function getAccountAtIndex(uint256 index)
        public
        view
        returns (
            address,
            int256,
```

```
int256,
            uint256,
            uint256,
            uint256,
            uint256,
            uint256
        )
    {
        if (index >= tokenHoldersMap.size()) {
            return (address(0), -1, -1, 0, 0, 0, 0, 0);
        }
        address account = tokenHoldersMap.getKeyAtIndex(index);
        return getAccount(account);
    }
    function canAutoClaim(uint256 lastClaimTime) private view
returns (bool) {
        if (lastClaimTime > block.timestamp) {
            return false;
        }
        return block.timestamp.sub(lastClaimTime) >= claimWait;
    }
    function setBalance(address payable account, uint256
newBalance)
        external
        onlyOwner
    {
        if (excludedFromDividends[account]) {
            return;
        if (newBalance >= minimumTokenBalanceForDividends) {
            _setBalance(account, newBalance);
            tokenHoldersMap.set(account, newBalance);
        } else {
            _setBalance(account, 0);
            tokenHoldersMap.remove(account);
        processAccount(account, true);
```

```
}
    function process(uint256 gas)
        public
        returns (
            uint256,
            uint256,
            uint256
    {
        uint256 numberOfTokenHolders =
tokenHoldersMap.keys.length;
        if (numberOfTokenHolders == 0) {
            return (0, 0, lastProcessedIndex);
        }
        uint256 _lastProcessedIndex = lastProcessedIndex;
        uint256 gasUsed = 0;
        uint256 gasLeft = gasleft();
        uint256 iterations = 0;
        uint256 claims = 0;
        while (gasUsed < gas && iterations < numberOfTokenHolders)</pre>
{
            _lastProcessedIndex++;
            if ( lastProcessedIndex >=
tokenHoldersMap.keys.length) {
                _lastProcessedIndex = 0;
            address account =
tokenHoldersMap.keys[_lastProcessedIndex];
            if (canAutoClaim(lastClaimTimes[account])) {
                if (processAccount(payable(account), true)) {
                    claims++;
                }
```

```
}
            iterations++;
            uint256 newGasLeft = gasleft();
            if (gasLeft > newGasLeft) {
                gasUsed = gasUsed.add(gasLeft.sub(newGasLeft));
            }
            gasLeft = newGasLeft;
        }
        lastProcessedIndex = _lastProcessedIndex;
        return (iterations, claims, lastProcessedIndex);
    }
    function processAccount(address payable account, bool
automatic)
        public
        onlyOwner
        returns (bool)
    {
        uint256 amount = _withdrawDividendOfUser(account);
        if (amount > 0) {
            lastClaimTimes[account] = block.timestamp;
            emit Claim(account, amount, automatic);
            return true;
        return false;
    }
}
```

#### 4. Tax Fee contract

```
function setTokenRewardsFee(uint256 value) external onlyOwner {
    tokenRewardsFee = value;
    totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);
    require(totalFees <= 25, "Total fee is over 25%");
}

function setLiquiditFee(uint256 value) external onlyOwner {
    liquidityFee = value;
    totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);
    require(totalFees <= 25, "Total fee is over 25%");
}

function setMarketingFee(uint256 value) external onlyOwner {
    marketingFee = value;
    totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);
    require(totalFees <= 25, "Total fee is over 25%");
}</pre>
```

The owner can't set fees over 25%

#### 4. PinkAntiBot

```
interface IPinkAntiBot {
  function setTokenOwner(address owner) external;

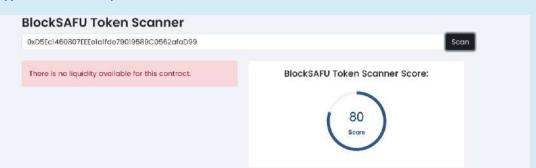
function onPreTransferCheck(
  address from,
  address to,
  uint256 amount
  ) external;
}
...

function setEnableAntiBot(bool _enable) external onlyOwner {
    enableAntiBot = _enable;
  }
```

The owner can set antibot to enable or not.

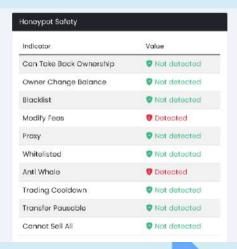
# **BlockSAFU TOKEN SCANNER**

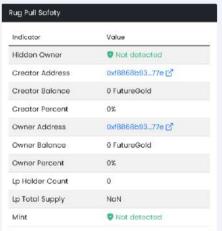
https://blocksafu.com/token-scanner





Indicator	Value
Honeypot	Liquidity Not Available
Buy Fees	0%
Sell Fees	0%
Buy Gas	0 Gwei (0.000000 BNB / \$0.00)
Sell Gas	0 Gwei (0.000000 BNB / \$0.00)
Holder Count	3 Holders

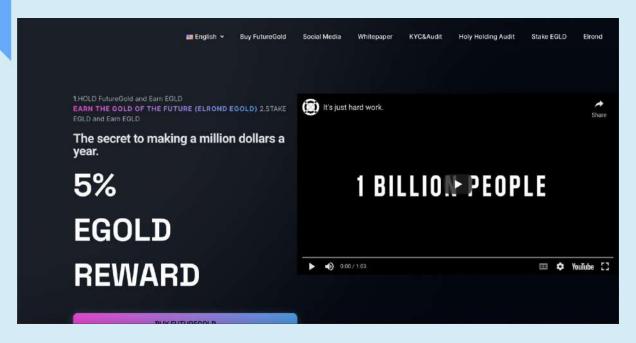








#### **WEBSITE REVIEW**



- Mobile Friendly
- Contains no code error
- SSL Secured (By E1 SSL)

Web-Tech stack: Core, Swiper

Domain .finance (namecheap) - Tracked by whois

First Contentful Paint:	515ms			
Fully Loaded Time	3.8s			
Performance	69%			
Accessibility	94%			
Best Practices	67%			
SEO	92%			

# **RUG-PULL REVIEW**

Based on the available information analyzed by us, we come to the following conclusions:

- Locked Liquidity (Locked by pinksale)(Will be updated after DEX listing)
- TOP 5 Holder.

(Will be updated after DEX listing)

The Team has Passed KYC by SolidProof

(https://github.com/solidproof/projects/blob/main/Future% 20Gold/KYC\_Certificate\_Solidproof\_Future\_Gold.png)

#### **HONEYPOT REVIEW**

- Ability to sell.
- The owner is not able to pause the contract.
- The owner can't set fees over 25%
- PinkAntiBot

Note: Please check the disclaimer above and note, that the audit makes no statements or warranties on the 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 the project.