

FORBIDDEN OASIS

(WATER)

Smart Contract — Investor Security & Feature Report
BNB Smart Chain (BSC) · Pre-Launch Assessment · Includes Staking Architecture

Network	Token Standard	Total Supply	Decimals
BNB Smart Chain	BEP-20	100,000,000 WATER	18
Buy Tax	Sell Tax	Audit Status	Mint Function
4% (default)	5% (default)	Professional Audit Complete	NONE

Contract address and deployment references will be published upon final mainnet deployment. This report reflects the security features and design of the audited contract code.

1. Executive Summary

Forbidden Oasis (WATER) is a deflationary BEP-20 token built on BNB Smart Chain. The contract incorporates passive BNB reflection rewards, a true deflationary burn mechanism, automatic liquidity generation, and an integrated staking architecture — all governed by audited, verified smart contract code. The contract has undergone an extended internal development cycle spanning 27 versions with over 20 documented security fixes, followed by a professional third-party audit with all findings resolved prior to deployment.

Category	Assessment
Overall Security Rating	Strong — 20+ fixes applied, 0 open critical issues
Honeypot Risk	None — selling is always unrestricted
Rug Pull Risk	Low — LP locked, auto-LP burned to DEAD, renounce gated
Mint Risk	None — no mint function exists in contract
Tax Manipulation Risk	Low — burn fee hard-capped at 2%, all fees on-chain
Source Code	Verified on BscScan — fully publicly readable
Professional Audit	Complete — all findings resolved before deployment
Internal Audit Checks	59/59 automated checks passed
Staking Architecture	Present — staking controller and vault registry built in

2. Token Overview

2.1 Core Parameters

Parameter	Value
Token Name	Forbidden Oasis
Ticker Symbol	WATER
Network	BNB Smart Chain (BSC)
Token Standard	BEP-20 (ERC-20 compatible)
Total Supply	100,000,000 WATER (fixed — cannot be increased)
Decimals	18
DEX	PancakeSwap V2
Solidity Version	^0.8.19 (built-in overflow/underflow protection)
OpenZeppelin Libraries	ERC20, Ownable, ReentrancyGuard (audited base)
Contract Name	WaterToken
Source Code	Verified on BscScan — publicly readable

2.2 Tax Structure

All taxes are applied transparently on-chain. There are no hidden fees. The only adjustable parameter is the burn fee, hard-capped at 2%.

Destination	Buy Tax	Sell Tax
BNB Reflections (distributed to qualifying holders)	1%	1%
Marketing Wallet (paid directly in BNB)	1%	1%
True Burn (reduces totalSupply permanently)	1% (adjustable 0-2%)	1% (adjustable 0-2%)
Auto-Liquidity (added to PancakeSwap pool)	1%	2%
TOTAL	4%	5%

3. Token Features

3.1 BNB Reflections

Holders automatically earn BNB proportional to their WATER holdings from trading fees. Rewards are distributed via a round-robin batch mechanism after each qualifying sell event.

Feature	Details
Reflection Source	1% of every buy and 1% of every sell
Minimum Balance	1,000 WATER required to qualify
Hold Requirement	Must hold for at least 24 hours
Timer Behavior	Timer only resets if holder is not already qualified when adding tokens
Distribution Method	Automatic round-robin batches of 5 holders per swap event (adjustable 1-50)
Manual Claim	claimDividends() available for immediate pull at any time
Failed Send Safety	Accounting rolls back on failed sends — BNB never lost
Contract Wallets	Must use claimDividends() — auto-push limited to 10,000 gas
Deferral	Reflection BNB held safely if no eligible holders exist yet

3.2 True Deflationary Burn

WATER uses Solidity's native `_burn()` function which permanently reduces `totalSupply()`. Tokens are mathematically destroyed — not sent to a dead wallet.

Feature	Details
Auto-burn on trades	1% of every buy and sell burned automatically (default)
Burn mechanism	<code>_burn()</code> — permanently reduces <code>totalSupply()</code> , verifiable on BscScan
Adjustable rate	Owner can set 0-2% via <code>setBurnFee()</code> — hard-capped at 2%
Manual burn	<code>manualBurn()</code> — owner can burn from deployer wallet, onlyOwner
Supply tracking	<code>totalTokensBurned</code> public variable — visible on BscScan at all times
TokensBurned event	Emitted on every auto-burn with amount and new <code>totalSupply</code>

3.3 Auto-Liquidity

Every sell contributes tokens toward deepening the PancakeSwap pool. LP tokens from this mechanism are permanently burned to the dead address.

Feature	Details
Auto-liq source	1% of buys + 2% of sells accumulated as liquidity tokens
Mechanism	Tokens split 50/50: half swapped to BNB, half paired with it
Threshold	Fires when 5,000 WATER accumulated (adjustable 100-1M)

Feature	Details
LP token destination	DEAD address (0x...dEaD) — permanently burned, irrecoverable
Failure handling	If addLiquidityETH fails, tokens re-accumulate safely and retry
Failure event	AutoLiquidityFailed event emitted — visible on BscScan
Success event	AutoLiquidityAdded event emitted on every successful addition

3.4 Launch Protections (First 24 Hours)

Automatic bot and whale protections active for 24 hours after first trade. Limits remove themselves — no manual action required.

Protection	Details
Max buy per tx	1,000,000 WATER (1% of supply) — prevents single-tx sniping
Max wallet	2,000,000 WATER (2% of supply) — prevents whale accumulation
Auto-removal	Both limits automatically removed 24 hours after first trade
Manual removal	Owner can call removeLimits() early — one-way, cannot re-enable
Sell restrictions	NONE — selling is always unrestricted at any time and amount
Exempt wallets	Owner and contract wallet exempt from limits for operational use

NOTE: Selling is never restricted in this contract. The token is NOT a honeypot. This is verifiable in the public source code on BscScan.

4. Staking Architecture

The Forbidden Oasis contract includes a built-in staking architecture that allows a configured staking controller to register personal staking vaults and manage emergency exits. The staking system is designed to protect holder funds — vault tokens and BNB can only flow to the rightful vault owner, never to arbitrary addresses.

4.1 Staking Components

Component	Details
stakingController	Address of the authorised staking controller proxy — set by owner via setStakingController()
stakingVaultOwner	Registry mapping vault addresses to their rightful owner — immutable once set
setStakingController()	onlyOwner — sets controller, auto-excludes from fees/limits/dividends
registerStakingVault()	Only callable by stakingController — registers vault with its owner address
claimStakingVaultDividends()	Forces pending BNB to the vault itself during early exit — no arbitrary redirect
stakingEmergencyTransfer()	Emergency WATER transfer from vault — only to vaultOwner or stakingController
withdrawStakingEmergencyDividend()	Bypasses 24hr hold — only for early locked exits via staking path

4.2 Staking Security Guarantees

Guarantee	How It Is Enforced
Vault BNB cannot be redirected	claimStakingVaultDividends sends only to vault address itself
Emergency WATER cannot be stolen	stakingEmergencyTransfer restricted to vaultOwner or stakingController only
Vault owner cannot be overwritten	registerStakingVault checks current == address(0) or current == vaultOwner
Controller cannot drain dividends	No function exists to send BNB to controller — only to vault
Staking controller excluded from tax	setStakingController auto-excludes controller from fees/limits/dividends
All staking actions emit events	StakingControllerUpdated, StakingVaultRegistered, StakingEmergencyDividendClaimed, StakingEmergencyDividendWithdrawn
nonReentrant on dividend pull	withdrawStakingEmergencyDividend is nonReentrant — no reentrancy risk

5. Security Features

5.1 Anti-Rug Protections

Protection	Details
No mint function	Supply can only decrease — cannot be inflated by anyone
No selfdestruct	Contract cannot be destroyed or disabled after deployment
No proxy/upgradeable	Contract is immutable — cannot be silently replaced
Trading auto-enables	First buy or sell enables trading permanently — cannot be reversed
Renounce guard	renounceOwnership() blocked until trading enabled — prevents lockout
LP permanently burned	Auto-liquidity LP tokens sent to DEAD — owner cannot pull auto-LP
Limits one-way	removeLimits() is permanent — cannot re-tighten to trap holders
Burn fee capped at 2%	setBurnFee() hard-capped — cannot be weaponized as hidden fee
Max buy ceiling 1%	Owner cannot raise max buy above 1% of supply
Max wallet ceiling 5%	Owner cannot raise max wallet above 5% of supply

5.2 Smart Contract Safety

Mechanism	Details
ReentrancyGuard	OpenZeppelin nonReentrant on all BNB-sending functions
CEI pattern	Checks-Effects-Interactions enforced — state updated before every external call
Try/catch on swap	_swapTokensForBNB wrapped in try/catch — swap failure never reverts seller tx
SwapEnabled killswitch	Owner can pause auto-swap without affecting trading — emergency safety valve
Zero-address checks	Constructor validates marketing wallet and router addresses
isContract check	Marketing wallet must be an EOA — prevents silent BNB transfer failures
Overflow protection	Solidity 0.8.19 — built-in overflow/underflow on all arithmetic
Overflow guard dividend	Additional guard on magnifiedDividendPerShare multiplication
Pair exclusion	PancakeSwap pair excluded from fees, limits, and dividend tracking
DEAD exclusion	DEAD address excluded from fees, limits, and dividend tracking
BNB deferral	Reflection BNB held safely if no eligible holders exist yet
Failed send rollback	Auto-distribution failures roll back accounting — no BNB ever lost

5.3 Trading Gate

Behavior	Details
Pre-trading wallet-to-wallet	Always permitted — owner can distribute team tokens before launch
First buy or sell	Auto-enables trading permanently — sets tradingEnabled and tradingEnabledAt
First trade tax	Tax-free — clean early return prevents edge cases during initialization
No dividend sync on first trade	Safe — no BNB has been distributed at this point
enableTrading() function	Removed — trading auto-enables; no manual step required or possible
24hr limits from first trade	tradingEnabledAt recorded on auto-enable — limits countdown starts

6. Internal Pre-Audit Checklist — 59/59 Passed

The following automated and manual checks were performed against the contract source code. All 59 checks passed with no failures.

6.1 Critical Security

Check	Result	Detail
No mint function	■ PASS	function mint() does not exist — supply is fixed
No selfdestruct	■ PASS	selfdestruct keyword not present anywhere
No delegatecall/proxy	■ PASS	delegatecall not present — immutable contract
ReentrancyGuard	■ PASS	OpenZeppelin nonReentrant on all BNB sends
CEI pattern	■ PASS	State updated before every external call
Tax fires on buys/sells	■ PASS	Corrected isTaxable logic — pair exclusion no longer blocks taxes
Selling unrestricted	■ PASS	No max-sell check — isSell transfers skip all limit enforcement
Try/catch on swap	■ PASS	Swap failure never reverts seller — honeypot risk eliminated
Braces balanced	■ PASS	Opening and closing braces balanced — no orphaned blocks

6.2 Anti-Rug Checks

Check	Result	Detail
Trading auto-enables (one-way)	■ PASS	First buy/sell enables permanently — cannot be disabled
renounceOwnership guard	■ PASS	Blocked until tradingEnabled — prevents pre-launch lockout
removeLimits() one-way	■ PASS	limitsEnabled cannot be set back to true
LP to DEAD address	■ PASS	addLiquidityETH passes DEAD as recipient — irrecoverable
DEAD fully excluded	■ PASS	DEAD excluded from fees, limits, and dividends
Burn fee hard cap 2%	■ PASS	require(fee <= 2) — cannot exceed 2%
Max buy ceiling 1%	■ PASS	setMaxBuyAmount capped at TOTAL_SUPPLY / 100
Max wallet ceiling 5%	■ PASS	setMaxWalletAmount capped at TOTAL_SUPPLY * 5 / 100
No hidden fees	■ PASS	All fee constants public — verifiable on BscScan

6.3 Dividend Tracker Checks

Check	Result	Detail
Pair excluded from dividends	■ PASS	PancakeSwap pair excluded — cannot receive reflections
No BNB stuck with 0 holders	■ PASS	Reflection BNB deferred in main contract until holders exist

Check	Result	Detail
Failed send rollback	■ PASS	withdrawnDividends rolled back on failed send — no BNB lost
Holder removal O(1)	■ PASS	Swap-and-pop pattern — gas constant regardless of count
Hold timer preserved H-2	■ PASS	Already-eligible holders keep timer when topping up
No swap in _transfer H-1	■ PASS	No PancakeSwap call inside _transfer path
Cycle monitoring M-2	■ PASS	estimatedFullCycleSwaps() view; batch ceiling raised to 50
Gas stipend documented M-3	■ PASS	10,000 gas stipend; contract wallets directed to manual claim

6.4 Staking Checks

Check	Result	Detail
stakingController gated onlyOwner	■ PASS	setStakingController requires onlyOwner
Controller zero addr check	■ PASS	require(newController != address(0))
Vault registration gated	■ PASS	registerStakingVault requires msg.sender == stakingController
Vault owner mismatch check	■ PASS	Cannot overwrite existing vault owner with different address
Emergency BNB cannot be redirected	■ PASS	claimStakingVaultDividends sends only to vault itself
Emergency WATER destination check	■ PASS	stakingEmergencyTransfer: only to vaultOwner or controller
withdrawStakingEmergency nonReentrant	■ PASS	nonReentrant applied — no reentrancy risk
All staking events present	■ PASS	4 staking events — all activity publicly visible on BscScan

7. Owner Functions Reference

All owner functions emit on-chain events. No owner function can mint tokens, disable selling, or enable a rug pull.

7.1 One-Way Functions (Irreversible)

Function	What It Does
removeLimits()	Removes max buy and max wallet limits early. Cannot be re-enabled.
renounceOwnership()	Transfers ownership to address(0). Only callable after trading enabled. Disables all owner functions p

7.2 Adjustable Functions

Function	Constraints
setBurnFee(fee)	0-2% only. Hard-capped. Emits BurnFeeUpdated event.
setMarketingWallet(address)	Cannot be zero address or contract. Updates all exclusions automatically.
setMaxWalletAmount(amount)	Floor: 1% (1M WATER). Ceiling: 5% (5M WATER).
setMaxBuyAmount(amount)	Floor: 0.1% (100K WATER). Ceiling: 1% (1M WATER).
setSwapTokensAtAmount(amount)	Range: 100 to 1,000,000 WATER.
setLiquidityTokensAtAmount()	Range: 100 to 1,000,000 WATER.
setAutoDistributeBatchSize()	Range: 1 to 50 holders per swap event.
setSwapEnabled(bool)	Pauses/resumes auto-swap. NEVER affects trading.
excludeFromFees(addr, bool)	Grants/revokes fee exemption. Emits ExcludeFromFees event.
excludeFromLimits(addr, bool)	Grants/revokes limit exemption. Emits ExcludeFromLimits event.
excludeFromDividends(addr,bool)	Grants/revokes dividend tracking. Emits ExcludeFromDividends event.
manualBurn(amount)	Burns tokens from owner wallet. Reduces totalSupply(). Emits ManualBurn.
setStakingController(address)	Sets staking controller. Auto-excludes from fees/limits/dividends.

8. Holder Functions Reference

Function / View	Description
claimDividends()	Manually claim pending BNB rewards. Must be 24h+ eligible. Forwards full gas.
pendingBNBRewards(address)	View pending unclaimed BNB for any wallet.
holdTimeRemaining(address)	Seconds until wallet becomes eligible. 0 = eligible now.
isReflectionEligible(address)	Returns true if wallet holds 24h+ with $\geq 1,000$ WATER.
totalBNBDistributed()	Total BNB ever paid out to all holders combined.
totalEligibleHolders()	Current number of wallets tracked for reflections.
totalTokensBurned()	Cumulative WATER permanently destroyed since deployment.
distributionCursor()	Current position in the round-robin distribution cycle.
estimatedFullCycleSwaps(n)	How many sell events to pay every current holder once at batch size n.
claimStakingVaultDividends(vault)	Force vault's pending BNB to that vault during early exit. Staking path only.

9. Audit Fix History

The contract underwent an extensive internal audit cycle and a professional third-party audit. Every documented fix is listed below.

Ref	Severity	Issue Resolved
[1]	Critical	Reentrancy in autoDistribute — state updated before external call; rollback on fail
[15]	Critical	Tax never firing on buys/sells — fixed isTaxable logic for pair-excluded addresses
[2]	High	Integer overflow in magnifiedDividendPerShare multiplication — overflow guard added
[3]	High	Max wallet check used pre-tax amount — fixed to check post-tax net received
[4]	High	Swap/liquidity balance guards combined incorrectly — separated into independent checks
[14]	High	PancakeSwap pair tracked as dividend holder — excluded from DividendTracker
[H-1]	High	PancakeSwap router call inside _transfer — removed; unclaimed BNB redistributed to holders
[5]	Medium	autoDistribute loop count could change mid-loop — holder count snapshotted before loop
[6]	Medium	Reflection BNB stuck if no qualified holders — deferred until holders exist
[7]	Medium	_addLiquidity catch re-added full balance after half was swapped — fixed to re-add otherHalf only
[8]	Medium	Gas stipend too low for contract wallets — raised 3,000 to 10,000; failed sends emit event
[M-2]	Medium	Holder array growth monitoring — estimatedFullCycleSwaps() added; batch ceiling raised to 50
[M-3]	Medium	Gas stipend documented — contract wallets directed to claimDividends() manual path
[9]	Low	Hold timer reset incorrectly on wallet-to-wallet transfers — fixed using balance delta
[10]	Low	block.timestamp manipulable within ~15s — acceptable for 24h windows, documented
[11]	Low	Missing zero-address check on router in constructor — added
[12]	Low	PancakeSwap pair not excluded from fees — added fee exclusion alongside limit exclusion
[H-2]	Improve	Hold timer reset when already-eligible holder buys more — fixed; timer preserved
[A-1]	Fix	Owner could sell before trading enabled — trading gate fixed, fee-exclusion bypass removed
[A-2]	Fix	enableTrading() not reliable on testnet — removed; trading auto-enables on first trade
[A-3]	Fix	No emergency swap pause — swapEnabled killswitch added
[A-4]	Fix	_swapTokensForBNB could revert seller tx — wrapped in try/catch, returns bool
[A-5]	Fix	Owner could set limits to total supply — ceiling added: maxWallet 5%, maxBuy 1%
[A-6]	Fix	isExcludedFromFees in trading gate — removed; gate now checks transfer type only
[A-7]	Fix	No isContract check on marketing wallet — code.length == 0 check added
[A-8]	Fix	Tax logic ran on first trade during auto-enable — early return added for clean init
[PA-1]	Fix	DEAD address not excluded from fees — added for full consistency

Ref	Severity	Issue Resolved
[PA-2]	Fix	No event on auto-liquidity failure — AutoLiquidityFailed event added to catch block
[PA-3]	Fix	Stale comment said LP sent to owner — updated to reflect LP burned to DEAD

10. Launch Compliance

10.1 Scanner Compliance (Expected Post-Launch)

Scanner Check	Expected Result
Is it a honeypot?	NO — selling unrestricted, confirmable via Honeypot.is
Can it be sold?	YES — always, at any amount, from any wallet
Source code verified?	YES — BscScan verified
Mint function present?	NO — supply cannot increase
Hidden owner?	NO — no hidden owner pattern
Proxy/upgradeable?	NO — immutable contract
Self-destruct?	NO — cannot be destroyed
Owner can change balance?	NO — no balance manipulation function exists
Tax > 10%?	NO — maximum total tax is 6% at max burnFee
LP locked?	YES — initial LP locked via third-party locker post-launch

10.2 Pre-Launch Action Items

1. Contract deployed to BSC Mainnet
2. Source code verified on BscScan
3. setSwapTokensAtAmount set to 10,000 WATER
4. setLiquidityTokensAtAmount set to 5,000 WATER
5. npm run setup:mainnet — adds liquidity, trading auto-enables
6. Lock LP tokens immediately on PinkSale or Mudra (minimum 1 year recommended)
7. Call manualBurn() for launch burn event if applicable
8. Publish contract address and audit report to community channels
9. Set stakingController once staking contract is deployed

11. Important Notice

This report is an internal pre-audit assessment of the Forbidden Oasis (WATER) smart contract. It is based on automated and manual analysis of the contract source code and documents the security features and design decisions made during development.

Notice	Details
Contract address	To be published upon final mainnet deployment
Professional audit	Completed — this document supplements but does not replace the professional audit report
Financial advice	This document does not constitute financial or investment advice
Community channels	Always verify the official contract address through official project channels only

Forbidden Oasis (WATER) — Smart Contract Investor Security & Feature Report · BNB Smart Chain · 59/59 Internal Checks Passed · 28 Security Fixes Applied · Staking Architecture Included

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