

The screenshot shows the homepage of the AquaGuard AI Water Pollution Detection website. At the top, there is a navigation bar with the logo "AquaGuard AI" and "Water Pollution Detection", followed by links for "Dashboard", "Analysis", "Priorities", and "About". On the far right of the navigation bar are two buttons: "Ethical AI" and "Upload Image". Below the navigation bar, a banner states "Supporting SDG 6: Clean Water and Sanitation". The main title "AI-Powered Water Pollution Detection & Cleanup" is prominently displayed. A subtext explains the service: "Analyze water body images using advanced computer vision and RAG technology. Detect pollution types, classify severity levels, and receive AI-generated recommendations for cleanup prioritization." Below this, there are two buttons: "Upload Image for Analysis" and "View Dashboard". At the bottom, three cards highlight features: "Fast Detection" (real-time analysis), "Ethical AI" (transparent, fair, privacy-respecting), and "Actionable Insights" (RAG-powered cleanup recommendations).

AquaGuard AI
Water Pollution Detection

Dashboard Analysis Priorities About

Ethical AI Upload Image

Supporting SDG 6: Clean Water and Sanitation

AI-Powered Water Pollution Detection & Cleanup

Analyze water body images using advanced computer vision and RAG technology.
Detect pollution types, classify severity levels, and receive AI-generated
recommendations for cleanup prioritization.

[Upload Image for Analysis →](#) [View Dashboard](#)

Fast Detection
Real-time pollution analysis
within seconds

Ethical AI
Transparent, fair, and privacy-respecting

Actionable Insights
RAG-powered cleanup
recommendations



AquaGuard AI
Water Pollution Detection

Dashboard Analysis Priorities About

Ethical AI

Upload Image

Analyze Water Body Images

Upload images from citizens or monitoring cameras for AI-powered pollution detection



Drop image here or click to upload

PNG, JPG, WEBP up to 10MB



Citizen Photos



Camera Feeds



Drone Imagery

Analysis Results

AI-powered pollution assessment and recommendations



 Medium Severity  86.6% Confidence

 River Delta - Industrial Zone

Detected Pollution Types

 Industrial Discharge  Water Discoloration

 Priority Cleanup

Cleanup Recommendations

- 1 Schedule routine cleanup
- 2 Install trash collection barriers
- 3 Increase monitoring frequency
- 4 Engage local community awareness programs

Preventive Measures

- 1 Install waste collection points nearby
- 2 Implement regular patrol schedules
- 3 Partner with local businesses for waste management
- 4 Deploy IoT sensors for real-time monitoring

Cleanup Priority Rankings

AI-ranked water bodies based on pollution severity for efficient resource allocation

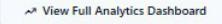
5
Total Sites

2
Urgent

2
Priority

1
Routine

#1	Industrial River Delta	 High	Zone 4 - Manufacturing District	 Industrial Discharge	 Chemical Runoff	Updated 2 hours ago	
#2	City Lake North	 High	Zone 1 - Downtown Area	 Garbage Accumulation	 Plastic Waste	Updated 4 hours ago	
#3	Riverside Park Pond	 Medium	Zone 2 - Recreation District	 Algae Bloom	 Organic Waste	Updated 1 day ago	
#4	Mountain Stream Junction	 Medium	Zone 5 - Rural Area	 Agricultural Runoff		Updated 2 days ago	
#5	Heritage Lake	 Low	Zone 3 - Historic District	 Minor Debris		Updated 3 days ago	

 View Full Analytics Dashboard

The screenshot shows the homepage of the AquaGuard AI Water Pollution Detection system. At the top, there's a navigation bar with the logo "AquaGuard AI" and "Water Pollution Detection", followed by links for "Dashboard", "Analysis", "Priorities", and "About". On the right side of the header are buttons for "Ethical AI" and "Upload Image". Below the header, a large teal banner features the text "SDG 6: Clean Water and Sanitation" and the heading "Ethical AI for Environmental Protection". A subtext explains: "Our system combines advanced computer vision with RAG technology to deliver transparent, fair, and actionable pollution detection for cleaner water bodies." Below this, there are six cards arranged in two rows of three, each with a green dot icon and a title: "Early Pollution Detection", "Faster Cleanup Response", "Efficient Resource Allocation" (top row); "Improved Water Quality", "Aquatic Life Protection", "Safer Communities" (bottom row). Further down, a section titled "Our Ethical AI Principles" contains four cards: "Privacy First" (blue icon), "Transparency" (teal icon), "Fairness" (green icon), and "Accountability" (light blue icon). At the bottom, a section titled "Built For" lists "Government Authorities", "Local Bodies", "Environmental Agencies", and "Cleanup Teams". The footer includes the "AquaGuard AI" logo, a "Built with ❤️ for clean water and healthier communities" message, and links for "Privacy", "Terms", and "Contact". It also notes "© 2026 AquaGuard AI. Supporting UN Sustainable Development Goal 6."