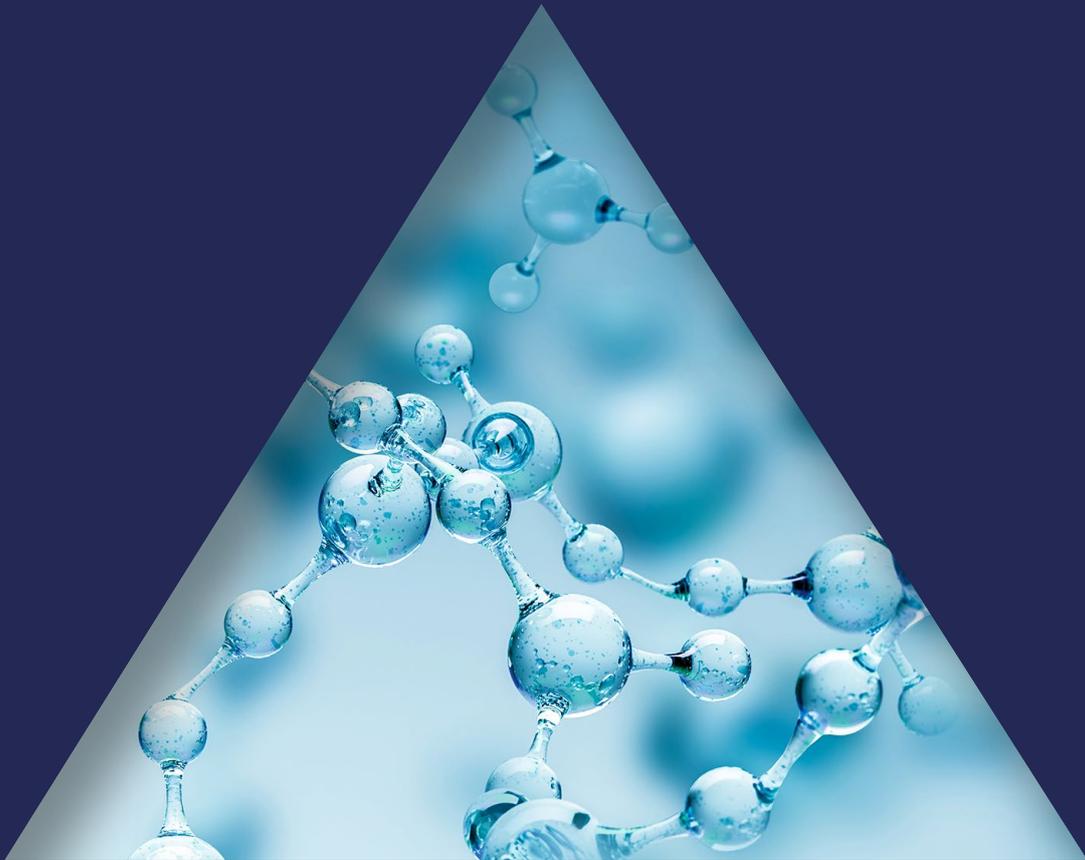


CLEANCHAIN[▲] *Wastewater*



Bringing visibility
to your wastewater
emissions data

WASTEWATER ACROSS YOUR SUPPLYCHAIN

The CleanChain Wastewater module provides visibility down your value chain for Wastewater Compliance. You will be able to identify which facilities have submitted a WasteWater Test Report, the conformance with the ZDHC Guidelines and Local Permit.



MONITOR YOUR SUPPLY CHAIN

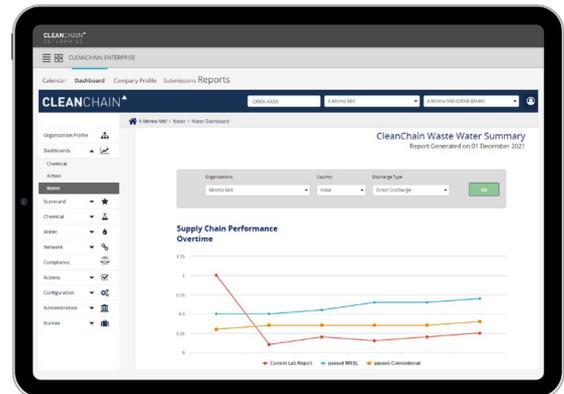
As a Brand you'll be able to answer the following question about your value chain.

Which suppliers report wastewater test reports?

- ▲ Before you can begin evaluating Suppliers on their wastewater emission, you need to know who the suppliers are that conduct testing and the suppliers that need to start testing.

Which suppliers are not using chemicals on the mrsl list?

- ▲ Suppliers should not have any trace of MRSL chemicals on site. Wastewater testing allows you to verify compliance with any public commitment to MRSL standards.

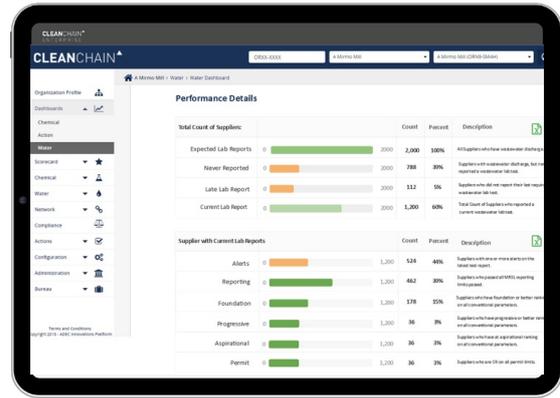


Which suppliers are testing for conventional wastewater parameter?

- ▲ By checking for conventionals, a Brand can judge the performance of a Supplier to common wastewater quality measures.

REPORT ON BRAND GOALS

The Performance Detail provide visibility into the status of your value chain on reaching performance goals.



Product on the mrsll list

Chemical Products with Possible Link to Waste Water Alerts	PDID	Restricted Chemical	Cas No.
ABLUTEX NR-660	PDW0-32TY	1,2,3,4-Tetrachlorobenzene	104-40-5

Finally if the Wastewater Module is used in combination with the CleanChain Chemical Module, you will be able to identify potential sources of Chemical Products that include restricted chemicals.

LEVERAGE EXISTING ZDHC WASTEWATER DATA

For Suppliers that have already submitted their ZDHC Wastewater data and have an active Gateway Wastewater Reporting Fee, there is no need for that supplier to resubmit their wastewater data to CleanChain. Instead a supplier will be able to link accounts and migrate the data to CleanChain.

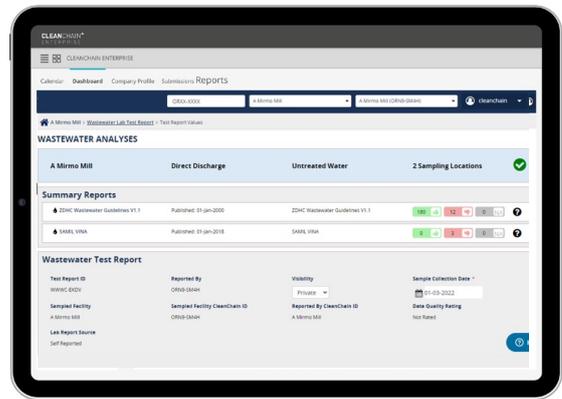
Link to zdhc gateway

ZDHC Gateway Organization Mapping		
	Gateway	CleanChain
Organization Name	Mirmo Supplier 01	A Mirmo Mill
Subscription	Reporting Fee	Water
Subscription Dates	08-Sep-2021 to 09-Sep-2022	01-Dec-2021 to 30-Nov-2022
Organization ID	A676FG90	ORN9-SM4H
Discharge Type	Industrial	Direct
Onsite Treatment		No

By linking from CleanChain to Gateway, a Supplier can create a connection that automatically pulls their lab results from ZDHC Gateway to CleanChain.

COMPARE AGAINST LOCAL PERMITS

In the example the lab test results are compared against the ZDHC Wastewater Guideline v1.1 and the local 'Saml Vina' Water Permit. By comparing against the local permits, you will have a more accurate standard for conventional parameters which take into account if the supplier is a direct or indirect discharger and the sensitivity of the receiving water to specific chemicals.



REPORTING

Summary reporting

REPORTING PERIOD	SUPPLIER NAME	SUPPLIER ID	SUPPLIER COUNTRY	BRAND CODE	AUTHORITY	AUTHORITY ID	DISCHARGE	REQUIREMENT	SAMPLE DATE	WW ID	PERCENT OK	PERCENT CONVENTIONAL OK	PERCENT MRSI OK	TOTAL EXPECTED	TOTAL SUBMITTED
01-Nov-2021	A Mirmo Mill	ORNG-SMAH	PAK	-	ZDHC	ORXX-ZDHC	Direct Discharge	ZDHC Wastewater Guidelines V1.1	03-Jan-2022	WWWC-EKDV	0.9375	0.2	1	192	180
01-Nov-2021	A Mirmo Mill	ORNG-SMAH	PAK	-	ZDHC	ORXX-ZDHC	Direct Discharge	ZDHC Wastewater Guidelines V1.1	04-Jan-2022	WWXK-ZE2V	0.99479	1	0.99435	192	192
01-Nov-2021	A Mirmo Mill	ORNG-SMAH	PAK	-	ZDHC	ORXX-ZDHC	Direct Discharge	ZDHC Wastewater Guidelines v1.1	04-Jan-2022	WWFR-862U	0.97396	0.66667	1	192	187

Built into the system are standard summary reports that allows you to quickly review the performance of each supplier.

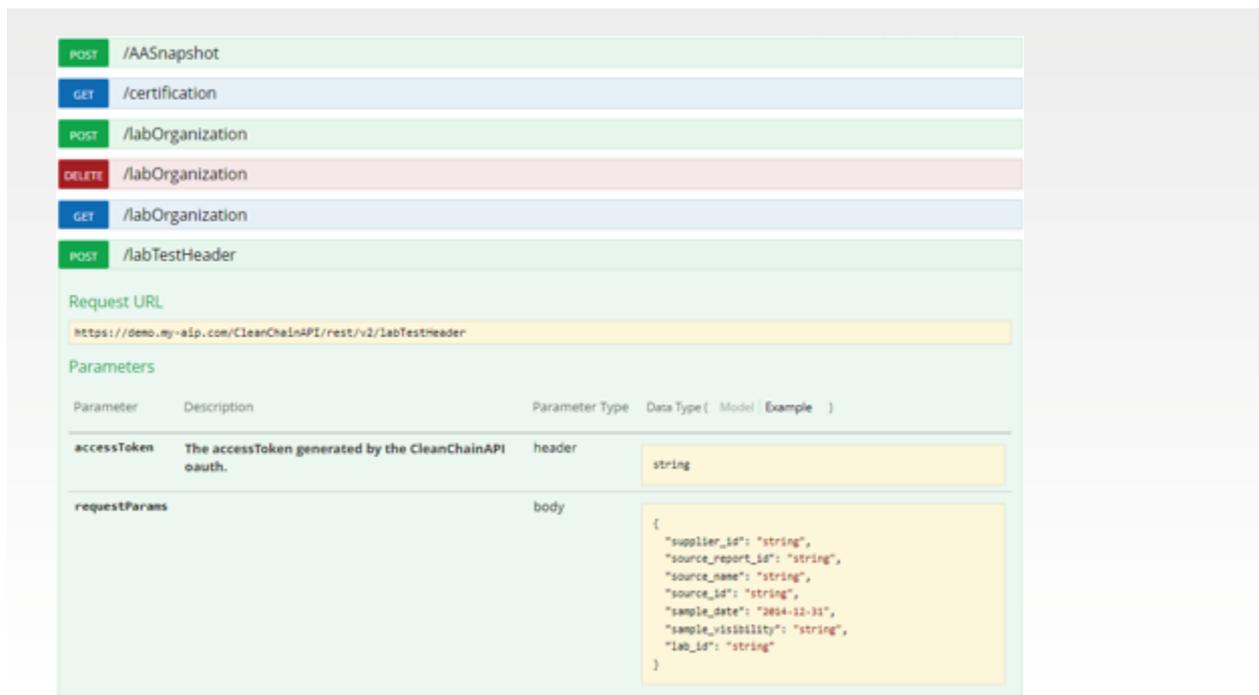
Detailed reporting

REPORTING PERIOD	SUPPLIER NAME	SUPPLIER ID	SUPPLIER COUNTRY	BRAND CODE	AUTHORITY	AUTHORITY ID	DISCHARGE	REQUIREMENT	SAMPLE DATE	WW ID	PERCENT OK	PERCENT CONVENTIONAL OK	PERCENT MRSI OK	TOTAL EXPECTED	TOTAL SUBMITTED
01-Nov-2021	A Mirmo Mill	ORNG-SMAH	PAK	-	ZDHC	ORXX-ZDHC	Direct Discharge	ZDHC Wastewater Guidelines V1.1	03-Jan-2022	WWWC-EKDV	0.9375	0.2	1	192	180
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And for Sustainability Managers who need to know the details, the system produces parameter by parameter detailed results.

INTEGRATION WITH YOUR CORPORATE BI TOOL

The application includes an extensive library of well documented APIs which can be used to integrate with your Corporate Dashboards so that your management team can view wastewater results without ever having to log in to CleanChain.



The screenshot displays an API documentation interface. At the top, a list of endpoints is shown with their respective HTTP methods: POST /AASnapshot, GET /certification, POST /labOrganization, DELETE /labOrganization, GET /labOrganization, and POST /labTestHeader. Below this, the details for the /labTestHeader endpoint are expanded. It shows the Request URL as https://demo.my-aip.com/CleanChainAPI/rest/v2/labTestHeader. The Parameters section includes a table with columns for Parameter, Description, Parameter Type, and Data Type (Model Example). The table lists two parameters: accessToken (header, string) and requestParams (body, JSON object). The JSON object for requestParams is: { "supplier_id": "string", "source_report_id": "string", "source_name": "string", "source_id": "string", "sample_date": "2004-12-31", "sample_visibility": "string", "lab_id": "string" }

Stay on top of your wastewater management with CleanChain's Wastewater module.

Sign up now!

To learn more, visit:

cleanchain.com or contact us at

mailto: **cleanchain.team@adec-innovations.com**



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