



Tti Testing Laboratories

OVER 30 YEARS OF EXCELLENCE IN QUALITY ASSURANCE



DIVISION 05 • CHEMICAL TESTING & ZDHC

Dyes & chemical auxiliaries

From chemical inputs to wastewater outputs.

Tti Labs offers a full-spectrum chemical management solution for regulatory compliance and supply-chain risk intelligence. It is a ZDHC MRSL V3.1 certifier and a ZDHC approved wastewater laboratory.

Textile chemicals

Leather chemicals

Synthetic chemicals

Polymer chemicals



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11 786 001

www.ttilabs.net



FIRST IN PAKISTAN

1st

Tti Labs offers the first TOF screening capability in Pakistan, powered by CIC technology.

Aligned with ZDHC MRSL, buyer protocols and EU regulatory frameworks.

IN SERVICE SINCE 1995

Approved at the input and at the output.

Tti Labs gives testing, certification and wastewater assurance for the dyes and auxiliaries used in textile, leather, synthetic and polymer production.

One group can cover a fabric test, a factory inspection and a ZDHC chemical certificate for the dye supplier. Tti Labs is ISO/IEC 17025 accredited and trusted by 1500+ global brands.

544 accredited methods • 600+ samples and 1,500+ tests a day • 3-day turnaround

- ⦿ ZDHC MRSL V3.1 approved certifier, Level 1
- ⦿ ZDHC approved wastewater laboratory, testing to Guidelines V2.2
- ⦿ ISO/IEC 17025 accredited testing laboratory, PNAC LAB 022
- ⦿ ISO/IEC 17020 accredited inspection body, PNAC IB-006 (Tti Inspections Pvt Ltd)
- ⦿ PNAC is a signatory to the Global ACI MRA (formerly ILAC MRA)
- ⦿ EPA Punjab approved water, wastewater and environmental testing laboratory
- ⦿ U.S. CPSC accepted: lead, flammability and phthalates



Testing



Certification



Wastewater



Audits

DIVISION 05 • DYES & AUXILIARIES

Full-spectrum chemical management

Tti Labs tests dyes, chemical auxiliaries and the manufacturing chemicals of textiles, leather, polymers and synthetics. Particle size and paint testing complete the division.

Pretreatment chemicals

Dyeing & finishing agents

Detergents & cleaners

Industrial chemicals

Biocidal products



All dyes

Reactive, disperse, direct, vat, acid, basic and specialty dyes



Chemical auxiliaries

Surfactants, detergents, finishing agents, softeners and lubricants



Leather chemicals

Tanning, finishing, waterproofing and coatings



Polymers & synthetics

Auxiliaries used in plastics, coatings and man-made fibres



Particle size

Sand, granules, polymers and chemicals



Paint & coatings

Oil-based and water-based; lead in paint to CPSC-CH-E1003-09.1

DIVISION 05 AT A GLANCE

V3.1

ZDHC MRSL
certifier

V2.2

ZDHC
Wastewater
Guidelines,
Sept 2024

5

ZDHC supplier
types covered,
incl. ZLD

67

Accredited
rows in scope
groups
marked ZDHC

1st

TOF screening
via CIC in
Pakistan

11

Instrument
families

"67" counts the rows in the scope groups marked ZDHC on PNAC LAB 022 Rev. 09, signed 3 August 2026 and valid until 8 August 2027. Sources: the Tti Labs magazine, ttilabs.net, PNAC LAB 022 Rev. 09.

SIGNATURE ANALYSES • ACCREDITED METHODS

Chemical inputs, **tested.**

Tti Labs gives chemical formulators, manufacturers, exporters and brand owners defensible data. That data reduces regulatory risk and supports confident decisions.

ZDHC MRL v3.1

EU REACH

Prop 65

CPSIA

Bluesign

OEKO-TEX

TEST	METHOD
Disperse dyes	DIN 54231:2022-09 • LC-MS
Amines from azo colourants	ISO 14362-1 & -3:2017
Total aniline	ISO 14362-1:2017
Quinoline	DIN 54231:2022
Phthalates (plasticizers)	ISO 14389
Bisphenols A, B, S, F	ISO 11936:2023
Organotin compounds	ISO 16179:2025
AP & APEO	EN ISO 18254-1:2016
Organic solvents (DMAC, DMFa, NEP, NMP)	ISO/TS 16189 • USEPA 5021A • GC-MS
Halogenated solvents	USEPA 8260D

TEST	METHOD
Glycols / glycol ethers	USEPA 8270E
Siloxane	TEGEWA method
Chlorophenols	DIN 50009:2021 • EN ISO 17070 • GC-MS
Chlorinated paraffins	ISO 22818:2021
Heavy metals in chemicals	Tti/INORG/SOP-008a, acid digestion • ICP • AAS
Chromium VI in chemicals	Tti/INORG/SOP-23 • IC
Total fluorine (inorganic & organic)	ASTM D7359 • EN 14582 • EN 17813 • CIC
PFAS in articles	ISO 23702-1:2023
PFAS in wastewater	DIN 38407-42 • BS EN 12673 • LC-MS/MS • GC-MS

FOUR SIGNATURE METHODS

**Disperse dyes****DIN 54231:2022-09** (LC-MS)**Organic solvents****ISO/TS 16189** (GC-MS)**Chromium VI in chemicals****Tti/INORG/SOP-23** (IC)**Heavy metals in chemicals****Tti/INORG/SOP-008a** (ICP • AAS)

ZDHC MRSL V3.1 • LEVEL 1 CONFORMANCE

Cleaner inputs, safer outputs.

Ti Labs certifies chemical formulators as a ZDHC MRSL approved certifier. Each certificate rests on three checks under ZDHC MRSL V3.1.


Analytical testing

Screening

**Safety Data Sheet
(SDS) review**

A chemical conforms when it contains no substance listed on the ZDHC MRSL above the set limit.

ZDHC defines three conformance levels. The higher the level, the more confidence that a formulation meets the latest MRSL.

Ti Labs certifies chemical formulators at Level 1, across textiles, leather, polymers and synthetics.

ZDHC MRSL Conformance Guidance, roadmaptozero.com/mrsl

WHY ZDHC MRSL COMPLIANCE

Cleaner inputs
→ Safer outputs
Assured brand compliance
→ Trusted by global buyers
Applicable across industries
**→ Textiles, leather, polymers,
synthetics**

CHEMICAL MANAGEMENT

-  Chemical inventory audit & certification: audit of inventories, MRSL adherence
-  Material compliance & RSL/MRSL screening
-  ZDHC green chemical management
-  Supplier mapping, Tier 1 to Tier 3

MRSL certification complements ZDHC wastewater testing for end-to-end assurance.



ZDHC WASTEWATER GUIDELINES V2.2 • TABLES 1A-1T

The MRSL, group by group

ZDHC lists twenty MRSL substance groups for untreated wastewater. Navy blue colourant is not tested. A lime dot marks a group with a named row on Tti Labs' PNAC scope; the method comes from that row.



● DYES & AMINES
 ■ HALOGENATED
 ■ SOLVENTS
 ■ OTHER
● NAMED ROW ON PNAC LAB 022

18/20 GROUPS WITH A NAMED ROW

Group names from the ZDHC Wastewater Guidelines V2.2 (September 2024), Tables 1A-1T, shortened. Methods from PNAC LAB 022 Rev. 09, pp. 6 and 13-15. Colour families are a reading aid, not ZDHC categories.

ZDHC MRSL V3.1 • ZDHC WASTEWATER GUIDELINES V2.2

From the dye bath to the discharge point.

Tti Labs certifies and audits the chemical inputs. It then samples and tests what leaves the site.

INPUT • TTI LABS CERTIFIES & AUDITS

OUTPUT • TTI LABS SAMPLES & TESTS

1

Chemical formulation

Tested, screened and SDS-reviewed against the ZDHC MRSL

2

Chemical inventory

Audited for MRSL adherence

3

Wet processing

Dyeing, printing, finishing, laundry, tanning

4

Untreated wastewater

ZDHC MRSL groups, Tables 1A–1T

SAMPLE POINT

5

Discharged wastewater

Heavy metals (Table 2), conventional parameters and anions (Table 3)

SAMPLE POINT

6

Sludge

Tables 4A–4C, by disposal pathway

SAMPLE POINT

5 supplier types, 3 sampling points

Untreated wastewater, discharged wastewater (effluent) and sludge, depending on the discharge type.

Twice a year

Suppliers test in the October and April cycles.

15 m³ a day

The average flow-rate threshold that sets which testing table applies.

ZDHC APPROVED WASTEWATER LABORATORY

Every discharge type, including ZLD

Tti Labs helps suppliers manage the complex chemical loads in their wastewater, to comply with ZDHC Wastewater Guidelines V2.2. The work runs from ZLD verification to trace-level detection of hazardous substances.

01

Direct discharge

Treated in the supplier's own effluent plant, then discharged to land, municipal sewers or water bodies.

Sampled: untreated wastewater, discharged wastewater, sludge

02

Indirect, with pretreatment

Treated on site, then sent to a central effluent treatment plant (CETP).

Sampled: untreated wastewater, discharged wastewater, sludge

03

Indirect, without pretreatment

Sent to a CETP with no treatment on site.

Sampled: untreated wastewater

04

Zero Liquid Discharge

No industrial wastewater leaves the site as liquid. Water leaves only by evaporation or as moisture in sludge.

Sampled: untreated wastewater, sludge

ZDHC counts indirect discharge with pretreatment as two supplier types, with and without sludge. ZDHC Wastewater Guidelines V2.2 (September 2024), Part A.

THREE SAMPLE POINTS, THREE SETS OF ZDHC TABLES

1

Untreated wastewater

The twenty ZDHC MRSL groups, from APEOs and phthalates to PFAS and VOCs. Eighteen have a named row on the PNAC scope.

Tables 1A-1T • page 6

2-3

Discharged wastewater

Heavy metals and the conventional parameters and anions. All 36 have a named row.

Tables 2 and 3 • page 9

4

Sludge

MRSL substances, metals, conventional parameters and cyanide. The disposal pathway sets which apply.

Tables 4A-4C • page 10

Biological testing includes *E. coli*, to EN ISO 9308-1 and BAM Ch 4.

FOUR CORE METHODS



COD

APHA 5220 B & D



BOD

APHA 5210 B



Colour

ISO 7887 B



Paint filter test

EPA 9095 B

ZDHC WASTEWATER GUIDELINES V2.2 • TABLES 2 AND 3

Discharged wastewater, parameter by parameter.

ZDHC sets limits at three levels: Foundational, Progressive and Aspirational. Each parameter below has a named row on Tti Labs' PNAC scope. The method comes from that row.



CONVENTIONAL PARAMETERS AND ANIONS • TABLE 3

pH APHA 4500 H+ B	COD APHA 5220 B & D	Total phosphorus ISO 6878
Temperature difference APHA 2550 B	Dissolved oxygen APHA 4500 O G	Total suspended solids APHA 2540 D
Colour, 436, 525 and 620 nm ISO 7887 B	Oil and grease APHA 5520 B	Chloride APHA 4500 CL B
Persistent foam Physical	Total phenols (phenol index) APHA 5530C	Cyanide, total APHA 4500E
Ammonium nitrogen USEPA 350.1	Total chlorine APHA 4500 G	Sulphate APHA 4500 SO4 E
AOX Tti/WTL/SOP-037	Total dissolved solids APHA 2540 C	Sulphide APHA 4500 D
BOD₅ APHA 5210 B	Total nitrogen USEPA 351.2	Sulphite APHA 4500 C

HEAVY METALS • TABLE 2

Sb Antimony	Cr^{VI} Chromium VI	As Arsenic	Cr Chromium, total	Co Cobalt
Cd Cadmium	Cu Copper	Pb Lead	Ni Nickel	Ag Silver
Zn Zinc	Hg Mercury	Ba Barium	Se Selenium	Sn Tin

METALS ROW ON THE SCOPE

Heavy metals, 16 elements

METHOD

APHA 3030, 3111, 3120 • EPA 6010C • ICP, FAAS

Total heavy metals in wastewater, 16 elements

EPA 3050 B • USEPA 200.8 • EPA 6020 A • Tti/WTL/SOP-039

Chromium VI, wastewater

ISO 18724:2025

36/36 PARAMETERS WITH
A NAMED ROW

Barium, selenium and tin are sampled and reported only; the outlined hexagons mark them. The first metals row also covers iron and manganese; the second, phosphorus and boron.



Also on the ZDHC scope group: conductivity, hardness, alkalinity, nitrates, nitrite, fluoride and minerals (Na, K, Ca, Mg); preservatives (OPP, OIT, PCMC, TCMTB) to ISO 13365-1:2020; dimethyl fumarate (DMFU) to EPA 8270E.

Parameter names from the ZDHC Wastewater Guidelines V2.2 (September 2024), Tables 2 and 3, shortened. Methods from PNAC LAB 022 Rev. 09, pp. 13–15, scope groups marked ZDHC. Limits are not printed: they differ by level, and between textiles and leather.

ZDHC WASTEWATER GUIDELINES V2.2 • TABLES 4A–4C

Sludge, tested by where it goes.

ZDHC names seven disposal pathways for sludge, A to G. The pathway sets which tests apply and the limits a sample must meet.

Disposal pathway	MRSL substances TABLE 4A	Metals TABLE 4B	pH, solids, paint filter, cyanide TABLE 4C	Faecal coliform TABLE 4C
A Incineration above 1000 °C, on or off site	⚙	–	–	–
B Landfill with significant control measures	⚙	–	–	–
C Building products processed above 1000 °C	⚙	–	–	–
D Landfill with limited control measures	✓	✓	✓	–
E Off-site incineration, or building products below 1000 °C	✓	✓	✓	–
F Landfill with no control measures	✓	✓	✓	✓
G Land application for a set purpose, in approved areas	✓	✓ and a maximum for total metals	✓	✓

- ✓ Tested; limits apply for approval ⚙ Tested for detections only, to trace intentional use – Not applicable
- Pathways A, B and C need sludge documentation, not test results, for approval. The sludge is still screened for MRSL substances.
 - A result of 5% solids or less shows high moisture. ZDHC then expects drying or dewatering.
 - If MRSL substances show up in sludge, the supplier checks its chemical inventory and replaces the source.
 - If a metal exceeds its threshold value, ZDHC asks for a leachate test for that metal.
 - The paint filter test shows whether sludge is fit for transport and management.

SLUDGE METHODS ON THE PNAC SCOPE

TEST	METHOD
Total heavy metals in sludge, 14 elements	EPA 3050 B • USEPA 200.8 • EPA 6020 A • Tti/WTL/SOP-039
Chromium VI, sludge	EPA 3060a • EPA 7196A • Tti/CHEM/SOP-20a
MRSL substances	The methods on page 6

TEST	METHOD
Total solids (%)	USEPA 160.3
Paint filter test	EPA 9095 B
pH value • cyanide	APHA 4500 H+ B • APHA 4500E
Faecal coliform	APHA 9221E

ZDHC Wastewater Guidelines V2.2 (September 2024), sludge requirements and Tables 4A–4C, shortened. The 14 elements: Pb, Cd, As, Ag, Sb, Se, Ni, Zn, Sn, Hg, Co, Cr, Cu, Ba. Methods from PNAC LAB 022 Rev. 09: scope group Water / Waste Water & Sludge (ZDHC), pp. 13–14; faecal coliform under Food, Water & Other Relevant Matrix, p. 18. Leachate testing does not appear on that scope. Limits are not printed.

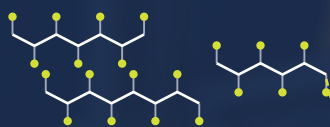
COMBUSTION ION CHROMATOGRAPHY · TOTAL ORGANIC FLUORINE

PFAS screening, powered by CIC.

1st TOF SCREENING IN PAKISTAN

TOTAL FLUORINE, AS NAMED ON THE ACCREDITED SCOPE

Inorganic fluorine
FREE FLUORIDE

Organic fluorine (TOF)
PERFLUORINATED CHAINS


CIC

ILLUSTRATION, NOT TO SCALE

TARGETED PFAS · ISO 23702-1:2023

TOF is a screen: one total. Targeted PFAS methods then name individual substances.

Tti Labs offers the first TOF screening capability in Pakistan, aligned with ZDHC MRSL, buyer protocols and EU regulatory frameworks.

Why screen for fluorine

The ZDHC MRSL V3.1 restricts all PFAS, not only the species listed in V2.0. ZDHC's stated position is that "PFAS have no place in standard manufacturing."

ZDHC Wastewater Guidelines V2.2, footnote to Table 10; ZDHC, "Position in Progress on PFAS", roadmaptozero.com.

A new EU limit, October 2026

From 10 October 2026, REACH entry 79 limits PFHxA and related substances in clothing, related accessories and footwear for the general public. Details on page 12.

Accredited total fluorine

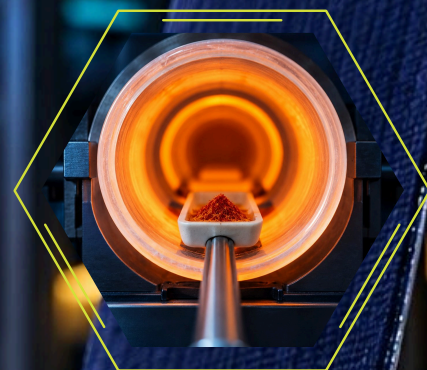
Inorganic and organic fluorine to ASTM D7359, EN 14582 and EN 17813 (Tti/INORG/SOP-22), on PNAC LAB 022.

Commissioned in 2025

Accredited TOF testing, first in Pakistan, through the CIC laboratory.

PFAS in articles and wastewater

ISO 23702-1:2023, CEN/TS 15968:2010 and EN 17681:2025; in wastewater DIN 38407-42:2011.





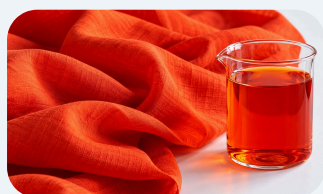
REACH ANNEX XVII • EUR-LEX, READ OCTOBER 2026

What the EU asks of textile chemistry

Limits and dates below come from the regulation texts on EUR-Lex, read October 2026. A test report shows the result for the sample and method. It does not by itself establish market compliance.

ENTRY	SUBSTANCE	RESTRICTION AND LIMIT	REGULATION
43	Azo colourants	Covers textile and leather articles in direct and prolonged contact with the skin or mouth. Their azo dyes may not release listed aromatic amines above 30 mg/kg (0.003% by weight).	(EC) No 552/2009
46a	Nonylphenol ethoxylates	Covers textile articles expected to be washed in water. After 3 February 2021, they may not reach the market with NPE at 0.01% by weight or more. Entry 46 already restricts NPE in textile and leather processing.	(EU) 2016/26
72	CMR substances in textiles	Covers consumer clothing, accessories, skin-contact textiles and footwear from 1 November 2020. Example limits: formaldehyde 75 mg/kg; cadmium, chromium VI, arsenic and lead 1 mg/kg after extraction.	(EU) 2018/1513, Appendix 12
79	PFHxA and related substances	Covers clothing, related accessories and footwear for the general public from 10 October 2026, and other consumer textiles from 10 October 2027. Limits: 25 ppb for PFHxA and its salts; 1 000 ppb for PFHxA-related substances.	(EU) 2024/2462

REACH ANNEX XVII ENTRIES



Entry 43

Azo colourants



Entry 46a

Nonylphenol ethoxylates



Entry 72

CMR substances



Entry 79

PFHxA



Tti Labs tests and reports what it finds. It does not decide whether a product falls inside or outside a regulation.

INSTRUMENT PLATFORMS USED FOR CHEMICAL WORK

The instruments behind the data.



HPLC

RSL and chemical analysis; dye identification.

LC-MS/MS

Triple and single quadrupole; PFAS, bisphenols and carcinogenic dyes from 2018.

GC suite

GC-MS, HS-GC-MS, GC-EI/CI, GC-FID: VOCs, RSL substances, residual solvents.

GC-MS-MS NEW 2025

Triple quadrupole; enhanced precision for complex matrices.

ICP-OES

Multi-element heavy metal analysis.

ICP-MS NEW 2025

Ultra-trace heavy metals at ppb/ppt sensitivity.

AAS

Heavy metals; trace element quantification.

IC / CIC

Chromium VI to EN ISO 17075-2; PFAS/TOF via CIC, first in Pakistan.

FTIR

Material identification.

MILESTONES IN CHEMICAL TESTING

2009


Heavy metals laboratory

Pakistan's first accredited heavy metals and inorganic laboratory

2011


Chromatography laboratory

Chemical analysis for regulatory compliance

2017


Environmental laboratory

EPA-approved; wastewater and industrial effluents

2018


LC-MS/MS

PFAS, bisphenols, carcinogenic dyes

2023


In-house methods

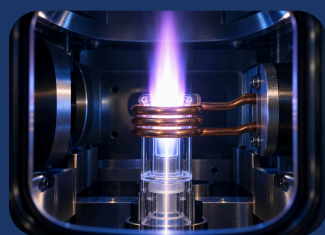
Emerging substances incl. PFAS and bisphenols

2025


CIC laboratory

First accredited TOF testing in Pakistan

FOUR OF THE PLATFORMS



ICP-OES

Multi-element heavy metals



ICP-MS

New 2025 · ppb/ppt



GC suite

GC-MS, HS-GC-MS, GC-FID



HPLC

RSL and dye analysis

WHICH TEST, WHICH SAMPLE

Start from the sample, find the test.

Find your sample or need in the first column. The row names what Tti Labs measures, the rule or method that applies, and the page with the detail.



SAMPLE OR NEED	WHAT TTI LABS MEASURES	RULE OR METHOD	PAGE
CHEMICAL INPUTS			
Dye or auxiliary formulation	MRSL conformance: analytical testing, screening, SDS review	ZDHC MRSL V3.1	5
Dyes	Disperse dyes, amines from azo colourants, total aniline, quinoline	DIN 54231 · ISO 14362	4
Auxiliaries and finishing agents	APEO, phthalates, bisphenols, organotins, solvents, glycols, siloxane, chlorophenols, chlorinated paraffins	ISO, EN and USEPA methods	4
Metals in chemicals	14 elements, and chromium VI	Tti/INORG/SOP-008a, SOP-23	4
PFAS	Total fluorine screen by CIC, then targeted PFAS	ASTM D7359 · ISO 23702-1	4, 11
Chemical inventory	Inventory audit, MRSL adherence, supplier mapping Tier 1 to Tier 3	ZDHC MRSL V3.1	5
WASTEWATER AND SLUDGE			
Your discharge type	Which samples ZDHC asks for, including ZLD	ZDHC WWG V2.2, Part A	8
Untreated wastewater	20 MRSL substance groups	Tables 1A-1T	6
Discharged wastewater	21 conventional parameters and anions; 15 metals	Tables 2 and 3	9
Sludge	MRSL substances, metals, conventional tests and cyanide, by disposal pathway	Tables 4A-4C	10
PRODUCTS AND MATERIALS			
Clothing and footwear for the EU	Azo amines, NPE, CMR substances, PFHxA	REACH Annex XVII 43, 46a, 72, 79	12
Paint and coatings	Lead in paint	CPSC-CH-E1003-09.1	3
Sand, granules, polymers	Particle size	—	3



What backs each test: the methods named here are rows on PNAC scope LAB 022 Rev. 09 (ISO/IEC 17025). 67 of those rows sit in the scope groups marked ZDHC.

Each row repeats what the page named says. Summary, not legal advice. Send the sample type and the requirement you must meet to quotations@ttilabs.net.

ZDHC SERVICES

Four services, from inputs to **outputs**.

01

MRSL V3.1 certification

Analytical testing, SDS review and screening for chemical formulators.

Pages 5, 6

02

Wastewater testing V2.2

All four discharge categories, including ZLD, and sludge.

Pages 8 to 10

03

PFAS and chromium VI screening

Total fluorine by CIC, targeted PFAS, and chromium VI in chemicals.

Pages 4, 11

04

End-to-end assurance

From chemical inputs to wastewater outputs.

Page 7

WHY TTI LABS

1995

In service since

544

Accredited methods

600+

Samples tested a day

3

Days, standard turnaround

1500+

Global brands served

4

Offices across Pakistan

Uncompromising sample chain-of-custody, and direct access to technical experts. A purpose-built facility of 25,000 sq. ft., with headquarters in Lahore and offices in Karachi, Faisalabad and Sialkot.

WORK WITH US

01

Quotations.

Quotations for chemical and wastewater testing, by email. You get direct access to technical experts.

quotations@ttilabs.net

02

Customer portal.

Submit requisitions, track samples and retrieve reports online.

etr.f.ttilabs.net

03

Accredited testing.

ISO/IEC 17025 methods on PNAC LAB 022 Rev. 09.

ISO/IEC 17025

04

Turnaround.

Standard turnaround of 3 days, with 600+ samples tested a day.

111 786 001



Tti Testing Laboratories

From chemical inputs to wastewater outputs.

Tti Testing Laboratories is a trusted quality partner to leading global buyers, built to bridge the gap between manufacturing realities and global compliance expectations. Confidence, Verified.

ISO/IEC 17025 · PNAC LAB 022

ZDHC MRSL V3.1 Certifier

ZDHC Wastewater Lab

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Images are illustrative and AI-generated; they do not show Tti Labs premises, clients or samples. Methods appear as on PNAC LAB 022 Rev. 09; confirm the scope and method edition when you order.

