

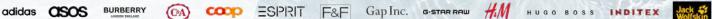
Ø ZDHC

The Roadmap To Zero Programme

June 2019

#### Signatory Brands:













































































































































































































Sustainable
Apparel Coalition











GermanFashion ITRI Industrial Technology





## **Contents**

Introduction					
1.0.0	Samp	ling	4		
	1.1.0	Types of Samples and Sampling Points/Locations	4		
	1.2.0	Sample Collection	4		
	1.3.0	Sample Containers and Preservatives	5		
	1.4.0	Sample Custody	9		
	1.5.0	Sample Shipments	9		
2.0.0	Laboi	ratory Analysis/Testing	10		
	2.1.0	Sample Receipt, Handling, and Custody	10		
	2.2.0	Sample Holding Time	11		
	2.3.0	ZDHC Wastewater Parameters	13		
	2.4.0	Standard Test Methods	13		
	2.5.0	Required Reporting Limits	14		
	2.6.0	Quality Systems	14		
	2.7.0.	Sample Storage	19		
	2.8.0.	Reporting and Deliverable Requirements	19		
3.0.0	Data '	Validation	20		
Apper	ndix A:	Example Chain of Custody Form	21		
Apper	ndix B:	Shipping and Customs Forms	22		

#### Disclaimer:

Although the author and publisher have made every effort to ensure that the information in this publication was correct at the time of publication, the author and publisher do not assume and hereby expressly disclaim any liability of any kind to any party for any loss, damage, or disruption caused a) by errors or omissions, whether such errors or omissions result from negligence, accident, or any other cause and/or b) from any use, decision made or action taken or any other kind of reliance on the information contained in this publication by a reader or user of it.

# Introduction

takes a holistic approach to tackling the and Analysis Plan (SAP) for Sludge was in issue of hazardous chemicals in the global development at the time of this document's textile, apparel, footwear and leather release. It will be provided as a separate industry. This holistic approach starts with document. the management of input chemistries, the management of day-to-day chemical use at **Purpose** production facilities, and the management of effluent generated and discharged by This SAP provides a detailed framework facilities.

With regards to effluent management, the ZDHC Wastewater Guidelines are in place **Data uses** to harmonise wastewater parameters, limit values and test methods. This is an Wastewater test data helps to promote the attempt to encourage and enable the implementation of sustainable chemistry industry, in particular brands, suppliers and best practices in the industry. (manufacturing facilities) and testing of expectations.

document is one of the key elements manufacturing facilities. to support the implementation of the ZDHC Wastewater Guidelines through standardising procedures for laboratories to conduct sampling and analysis.

The ZDHC Roadmap to Zero Programme It's important to note that the Sampling

for laboratories to conduct wastewater sampling and analytical services.

laboratories, to work towards the same set The laboratory must be aware of the importance of maintaining the integrity of test data generated under the ZDHC This ZDHC Wastewater Laboratory Programme. The test data may be used Sampling and Analysis Plan (SAP) to make major decisions regarding

# 1.0.0 Sampling

### 1.1.0 Types of Samples and Sampling Points/ Locations

Please refer to the ZDHC Wastewater Guidelines (WWG) for types of samples and sampling points/locations. The types of samples to be collected will depend on the testing option decided upon by the brand and supplier (manufacturing facility), but limited to the two testing options identified in the WWG. The WWG acknowledges the difference between facilities with a direct discharge, indirect discharge and on-site zero liquid discharge treatment plant. Important to note: to streamline efforts within the value chain, sampling, testing and reporting as per the WWG and as requested by one ZDHC Brand is a valid test. This test will and should be accepted by all ZDHC Brands.

# 1.2.0 Sample Collection

- Samples shall be taken by qualified laboratory personnel. Wastewater samples shall be collected as composite samples following ISO 5667 - 10 guidelines: "Water Quality Sampling Guidance for the preservation and handling of water samples".
- 2. Sampling using calibrated and refrigerated auto samplers is preferred. To ensure representative samples, composite sampling must be performed for no less than six (6) hours, with no more than one (1) hour between discrete samples. Each discrete sample shall be of equal volume. The composite sample container must be cooled during sampling.
- 3. If necessary, laboratory personnel can collect discrete samples by hand for no less than six (6) hours, with no more than one (1) hour between discrete samples. Each discrete sample shall be of equal volume and combined to produce one composite sample. The composite sample container must be cooled during sampling.

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

Version 1.0 | June 2019

- 4. All of the laboratory sample containers will be filled from the same bulk composite sample. A minimum sample volume of 20-liters is needed to fill all the containers. The laboratory may require extra volume for QA samples. The sampler shall coordinate extra volume requirements with the laboratory.
- 5. Samples must be taken during a time that represents continuous and normal production and continuous and normal wastewater treatment. For example, if the facility starts production, and the wastewater treatment system doesn't reach equilibrium for one hour, then wastewater sampling must be delayed for that length of time.
- 6. Samples must not be taken if the wastewater is diluted, for example, by heavy rainfall.
- 7. Wastewater flow data (volume/time) must be collected and reported with the laboratory test results.

# 1.3.0 Sample Containers and Preservatives

- 1. Figure 1 presents standard sample collection containers and preservatives for the wastewater parameters specified in the ZDHC Wastewater Guidelines.
- 2. The appropriate sample collection container and preservative can vary depending on the standard test method used. Therefore, verify the proper container and preservative with the test method being used at the laboratory.

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

Figure 1: Sample Containers and Preservatives

Wastewater Parameter	Sample Container Minimum Size	Standard Preservative (verify with lab method to be used)
Conventional		
Temperature	NA	Measured in the field
TSS	P, G 200-ml	cool < 6°C
COD	P, G, FP 100-ml	H2SO4 < pH 2
		cool < 6°C
Total-N	P, G, FP 100-ml	H2SO4 < pH 2
		cool < 6°C
pH	NA	cool < 6°C
Colour [m-1]	P, G, FP 500-ml	cool < 6°C
(436nm; 525; 620nm)		
BOD5	P, G, FP 1,000-ml	cool < 6°C
Ammonium-N	P, G, FP 500-ml	H2SO4 < pH 2
		cool < 6°C
Total-P	P, G, FP 100-ml	H2SO4 < pH 2
		cool < 6°C
		0.1 ml of 10% Sodium
AOX	P, G, FP 500-ml	Thiosulfate, H2SO4 < pH 2,
		cool < 6°C
Oil and Grease	Glass, wide mouth PTFE	HCl or H2SO4 < pH 2
	lined lid 1,000-ml	cool < 6°C
Phenols	P, G PTFE lined lid 500-ml	H2SO4 < pH 2
		cool < 6°C
Total Coliform	P, G clean, sterile,	0.1 ml of 10%
[bacteria/100ml]	non-reactive, 125-ml	Sodium Thiosulfate
		cool < 6°C do not freeze
Persistent foam	NA	Measured in the field
		NaOH > 12 pH, 0.1 ml of 10%
Cyanide	P, FP 1,000-ml	Sodium Thiosulfate,
		cool < 6°C

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

Version 1.0 | June 2019

Sulfide	P, FP 100-ml	4 drops 2N zinc acetate, NaOH > pH9	
Sullide	F, FF   100-1111	cool < 6°C	
		1-ml 2.5% EDTA, 0.5 g zinc	
Sulfite	P, G, FP 100-ml		
Suille	P, G, FP 100-ml	acetate     cool < 6°C	
Chinning tomporature	calibrated thermometer		
Shipping temperature		room temperature water	
indicator bottle	to +/- 1C°		
Metals			
Antimony, Chromium-total			
Cobalt, Copper, Nickel	P, G, FP acid washed 250-ml	HNO3 < pH 2	
Silver, Zinc, Arsenic			
Cadmium, Lead			
	G acid washed 40-ml Brown	0.45µm filter in field, add	
Chromium (VI)	Glass VOA vial	buffer * to pH 9.0-9.5,	
		cool < 6°C	
Mercury	P, G, FP acid washed 500-ml	HNO3 < pH 2	
		cool < 6°C	
ZDHC MRSL			
AP and APEOs:	G 1,000-ml PTFE lined lid	cool < 6°C	
Including All Isomers			
Chlorobenzenes and	G 1,000-ml PTFE lined lid	cool < 6°C	
Chlorotoluenes			
Chlorophenols	G 1,000-ml PTFE lined lid	cool < 6°C	
Dyes - Azo (Forming	G 1,000-ml PTFE lined lid	cool < 6°C	
Restricted Amines)			
Dyes - Carcinogenic or	G 1,000-ml PTFE lined lid	cool < 6°C	
equivalent Concern			
Dyes - Disperse (Sensitising)	G 1,000-ml PTFE lined lid	cool < 6°C	
Flame Retardants	G 1,000-ml PTFE lined lid	cool < 6°C	
Glycols	G 1,000-ml PTFE lined lid	cool < 6°C	

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

Halogenated Solvents	Three x 40-ml amber VOA	HCl < pH 2	
	vial no headspace	cool < 6°C	
Organotin Compounds	G 1,000-ml acid washed	1M HCl to pH 2-3	
	PTFE lined lid	cool < 6°C	
Perfluorinated and			
Polyfluorinated Chemicals	P 1,000-ml no PTFE lined lid	cool < 6°C	
(PFCs)			
Otho-Phthalates -			
Including all ortho esters of	G 1,000-ml PTFE lined lid	cool < 6°C	
phthalic acid			
Polycyclic Aromatic	G 1,000-ml PTFE lined lid	cool < 6°C	
Hydrocarbons			
VOC	Three x 40-ml amber VOA HCl < pH 2		
	vial no headspace	cool < 6°C	

<sup>\*</sup> Buffer = EPA Method 218.6. Dissolve 33g of ammonium sulphate in 75-ml of ASTM D1103 Type 1 or ISO 3696 water, add 6.5-ml of ammonium hydroxide. Dilute to 100-ml with ASTM D1103 Type-1 or ISO 3696 water.

P= plastic G= amber glass FP= fluoropolymer

- 3. A temperature indicator bottle shall be included with each shipping container. The temperature indicator bottle will be clearly labelled.
- 4. Field blanks shall be collected for the following parameters:
  - a. Total-Phosphorus
  - b. Coliform
  - c. Mercury
  - d. Halogenated Solvents
  - e. Volatile Organic Compounds (VOC)
- 5. The field blanks shall use the same containers as the samples and will be filled with ultrapure laboratory grade water (ASTM D1193 or ISO 3696).

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

Version 1.0 | June 2019

1.4.0 Sample Custody

All samples shall have a Chain-of-Custody log that is maintained from the time of collection, during the entire analytical process, and until sample disposal. An example Chain-of-Custody form is presented in *Appendix A*. The sampling team must maintain physical custody, or use custody seal tape on the cool boxes, until the samples are handed off to the shipping company or laboratory.

1.5.0 Sample Shipments

1. Use an overnight delivery service for samples that are shipped to a laboratory.

2. To avoid shipping delays and compromising sample holding times, contact the shipping company <u>prior</u> to sample collection. The shipping company can help determine the appropriate customs arrangements that must be made.

3. Appendix B provides wastewater sample and shipping forms that may help to avoid delays in customs.

4. Samples will be shipped in cool boxes with sufficient insulation and artificial refrigerant ("blue ice"), or ice contained in double zip-lock bags, to maintain a sample temperature of less than 6°C for the duration of transportation. Containers should be shipped upright. Use bubble wrap around individual glass containers and use adequate packing material to prevent movement during shipment, cushion from shock, and reduce the risk of leakage.

5. The sampler shall be responsible for all handling, processing, and custody of the samples, including taking samples to the nearest servicing airport, bus station, or other carrier.

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

# 2.0.0 Laboratory Analysis/Testing

# 2.1.0 Sample Receipt, Handling, and Custody

- 1. The laboratory shall be available to receive sample shipments at any time the delivery service is operating, including weekends.
- 2. The sample temperature shall be measured and recorded immediately upon opening the shipping container, and prior to unpacking the samples or removing the packing material.
  - a. The laboratory shall use the shipping container temperature indicator bottle reading as the sample temperature.
  - b. To determine the temperature, invert the bottle several times, remove the cap, and insert a calibrated thermometer.
  - c. Allow a minimum of 3 minutes, but not greater than 5 minutes prior to taking the measurement. The thermometer used shall be calibrated and capable of measuring within an accuracy of  $\pm 1^{\circ}$ C.
  - d. If a temperature indicator bottle is not present in the shipping container, an alternative means of determining shipping container temperature can be used.
  - e. Under no circumstances shall a thermometer or any other device be inserted into a sample bottle for the purpose of determining shipping container temperature.
  - f. Other devices (e.g. infrared thermometer), which can measure temperature may be used if they are calibrated to  $\pm 1^{\circ}$ C
  - g. If the sample temperature is not less than or equal to 6°C the laboratory shall note the issue and provide this information in the test report.
  - h. If the temperature exceeds 10°C the laboratory shall contact the client and inform them of the temperature deviation. The client may decide not to perform testing on these samples.
- The pH for all aqueous/water sample containers received by the laboratory shall be measured and recorded at the laboratory to demonstrate that proper preservation was performed.

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

Version 1.0 | June 2019

10

- a. Measure pH using test strips, an electronic hand-held pen, or pH meter. To prevent sample contamination, measure the pH on a small aliquot of the sample removed from the container.
- b. Under no circumstances shall a strip or any device be inserted into a sample bottle for the purpose of determining pH.
- 4. If the laboratory encounters problems with samples or related documentation [e.g. mixed media, sample pH, sample documentation and paperwork such as Traffic Report/Chain of Custody], the laboratory shall immediately contact the sampler for resolution.

# 2.2.0 Sample Holding Time

- 1. In general, minimising the time between sample collection and analysis will provide more reliable and representative analytical data.
- 2. Figure 2 presents both the recommended and maximum holding times for each of the wastewater testing parameters.
- 3. If a sample exceeds the holding time the test results will be reported. However, any test results that exceed the holding time must be flagged with the following data qualifier.
  - Maximum holding time exceeded. Red flag in the ZDHC Gateway Wastewater
     Module. Probable error in results due to the holding time.

Figure 2: Sample Holding Times

Wastewater Parameter	stewater Parameter Recommended Holding Time						
Conventional	Conventional						
Temperature	measure in the field	15 minutes					
TSS	24 hours	7 days					
COD	7 days	28 days					
Total-N	-	28 days					

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

Version 1.0 | June 2019

рН	measure in the field	6 hours
Colour [m-1]	-	48 hours
(436nm; 525nm; 620nm)		
BOD5	6 hours	48 hours
Ammonium-N	7 days	28 days
Total-P	-	28 days
AOX	-	6 months
Oil and Grease	-	28 days
Phenols	24 hours	28 days
Total Coliform	6 hours	24 hours
[bacteria/100ml]		
Persistent foam	measure in the field	-
Cyanide	24 hours	14 days
Sulfide	-	7 days
Sulfite	-	48 hours
Metals		
Trace Metals	28 days	6 months
Chromium (VI)	24 hours	28 days
Mercury	-	28 days
ZDHC MRSL		
Alkylphenol (AP) and		
Alkylphenol Ethoxylates	-	7 days to extract
(APEOs):		
Including All Isomers		
Chlorobenzenes and	-	7 days to extract
Chlorotoluenes		
Chlorophenols	-	7 days to extract
Dyes - Azo	-	7 days to extract
(Forming Restricted Amines)		
Dyes - Carcinogenic or	-	7 days to extract
Equivalent Concern		
Dyes - Disperse (Sensitizing)	-	7 days to extract
Flame Retardants	-	7 days to extract

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

Version 1.0 | June 2019

12

Glycols	-	7 days to extract
Halogenated Solvents	-	14 days
Organotin Compounds	24 hours	7 days
Perfluorinated and		
Polyfluorinated Chemicals	-	7 days to extract
(PFCs)		
Otho-Phthalates - Including		
all ortho esters of phthalic	-	7 days to extract
acid		
Polycyclic Aromatic	-	7 days to extract
Hydrocarbons (PAHs)		
VOC	7 days	14 days

#### 2.3.0 ZDHC Wastewater Parameters

The wastewater parameters are listed in the ZDHC Wastewater Guidelines document, *Appendix A*, Table 1 and Table 2.

### 2.4.0 Standard Test Methods

- 1. The ZDHC approved standard test methods are presented in the ZDHC Wastewater Guidelines document, *Appendix A*, Table 1 and Table 2.
- 2. The methods are based on requirements in the European Union, the United States of America, and China. Alternate methods, such as those required by the regulatory agency in the region in which the wet processing/manufacturing occurs, may be used with prior approval from ZDHC.

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

Version 1.0 | June 2019

# 2.5.0 Required Reporting Limits

- 1. The minimum required reporting limits are presented in the ZDHC Wastewater Guidelines document, Appendix A, Table 1 and Table 2. They are also based on the ZDHC discharge limits, which were established with consideration to achieving these levels with good laboratory practices. If the ZDHC reporting limits cannot be achieved, an alternate method or a sub-contract laboratory must be used.
- 2. The Method Detection Limit (MDL) for each parameter must be determined first and is used to establish the reporting limit. The MDL will be established using ISO/TS 13530:2009 4.4.3.
- 3. The Reporting Limit (RL) will be established using ISO/TS 13530:2009 4.4.7.
- 4. Non-detected test results will be reported using the calculated RL for each parameter and not the ZDHC discharge limit.

# 2.6.0 Quality Systems

1. The minimum quality assurance measures for organic chemical analysis of wastewater are presented in *Figure 3*.

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

Version 1.0 | June 2019

14

Figure 3: Minimum Quality Assurance Measures for Organic Chemical Analysis

Measure	Description	Target value	Frequency		be checked
		Routine			
	Covering sample			cleanliness	
Method blank	preparation and	< MDL	1 per batch	laboratory (	
	measurement			and equipm	
Calibration	An independently			Instrument	,
Check	sourced/prepared	± 20 %	1 per batch	drift, stabili	ty of
	standard			standards	<u> </u>
				Correction	
				of	
	For GC methods.			injection	
Internal	Substance with			error.	
Standard	physico-chemical	50 - 150%	every sample	Method	Choice of
	properties similar to			specific:	internal
	the analyte			surrogate	standard or
				as	surrogate
				alternative	or a com-
				Check	bination
				sample	thereof is
	Substance which has			prepara-	method/
	similar	method		tion	analyte
Surrogate	physico-chemical	specific	every sample	procedure	dependent
	properties as the			and	
	analyte			internal	
				standard	
				correction	

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

Problematic samples							
(e.g. in	(e.g. internal standard recovery too low, phase separation issues etc.)						
Duplicate	duplicate undergoing	< 35 %	problematic	flag results			
	complete process	RPD	samples only				
Matrix Spike	spike onto sample						
Matrix Spike	matrix (duplicate)	method	problematic	flag results			
Duplicate	undergoing complete	specific	samples only				
	process						
	Me	ethod valid	ation				
Multi-Point	Min. 5-point	r <sup>2</sup> ≤ 0.995	validation	linearity, working range			
Calibration	calibration excl. origin						
	Extract the standard	method					
Recovery	through the test	and	validation	recovery without			
(LCS)	procedure without	analyte		influence of matrix			
	matrix	specific					
Repeatability	Matrix spike replicates	method		robustness, recovery			
(matrix spike	under repeatability	and	validation	with matrix influence,			
replicate)	conditions	analyte		UoM, general fitness for			
		specific		use			
		≤WWG					
Limit of	ISO/TS 13530:2009	RL		MDL			
Detection	4.4.3		validation				
	4.4.7	≤ ½ WWG		RL			
		RL					

#### Note:

- General suitability of the analytical approach is demonstrated via method validation.
- Specific, problematic sample matrices, which are not covered by the validation, require additional QC measures.
- In case of conflict, quality assurance measures specified by the applied standard, the accreditation body or local authority shall prevail.

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

Version 1.0 | June 2019

16

2. The quality assurance testing in *Figure 4* is required for each of the ZDHC wastewater parameters. This data may be requested and used by ZDHC to assess data quality and validate the analytical results.

Figure 4: Required Quality Assurance Testing

Parameter	Field Blank	Method Blank	Calibration Check*	Lab Duplicate	ISTD and Surrogate
Frequency	1 per	1 per	1 per Batch	1 in 20	Every
	Batch	Batch			Sample
DQO	< MDL	< MDL	+/- 20%	+/- 35%	Method
					Specific
Conventional					
Temperature	-	-	-	-	-
TSS	-	-	Х	Х	-
COD	_	Х	Х	Х	-
Total-N	-	Х	Х	X	-
pН	-	-	X	-	-
Colour [m-1]	-	X	X	-	-
(436nm; 525; 620nm)					
BOD5	-	Х	X	-	-
Ammonium-N	-	Х	X	X	-
Total-P	X	Х	Х	X	-
AOX	-	Х	Х	X	-
Oil and Grease	-	Х	X	X	-
Phenols	-	Х	X	X	-
Total Coliform	X	Х	X	X	-
[bacteria/100ml]					
Persistent foam	-	-	-	-	-
Cyanide	-	Х	X	Х	-
Sulfide	-	Х	Х	Х	-
Sulfite	-	Х	Х	Х	-

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

Version 1.0 | June 2019

Metals					
Metals	-	Х	Х	Х	Х
Chromium (VI)	-	Х	Х	Х	Х
Mercury	Х	Х	Х	Х	Х
ZDHC MRSL					
Alkylphenol (AP) and					
Alkylphenol Ethoxylates	-	X	Х	Х	X
(APEOs):					
Including All Isomers					
Chlorobenzenes and	-	Х	Х	Х	Х
Chlorotoluenes					
Chlorophenols	-	Х	Х	Х	Х
Dyes - Azo (Forming	-	Х	Х	Х	Х
Restricted Amines)					
Dyes - Carcinogenic or	-	Х	Х	Х	Х
equivalent Concern					
Dyes - Disperse	-	X	Х	X	Х
(Sensitising)					
Flame Retardants	-	Х	Х	Х	Х
Glycols	-	X	Х	X	Х
Halogenated Solvents	Х	Х	Х	Х	Х
Organotin Compounds	-	Х	Х	Х	Х
Perfluorinated and					
Polyfluorinated	-	X	Х	X	Х
Chemicals (PFCs)					
Otho-Phthalates –					
Including all ortho esters	-	X	X	X	Х
of phthalic acid					
Polycyclic Aromatic	-	X	Х	X	Х
Hydrocarbons (PAHs)					
voc	X	Х	Х	Х	Х

<sup>\*</sup> calibration check conducted with a second source standard

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

Version 1.0 | June 2019

# 2.7.0 Sample Storage

- 1. All samples will be stored under custody at less than 6°C and above freezing 0°C (unless otherwise specified by the standard test method).
- 2. The samples may be disposed of 60 days after the final laboratory report is issued.

# 2.8.0 Reporting and Deliverable Requirements

- All test data must be reported using the ZDHC Electronic Data Reporting format available
  in the ZDHC Gateway Wastewater Module platform. Important to note: at the time of
  the release of this document in June 2019, this feature is not yet ready. Announcement to
  follow.
- 2. The use of formats other than those approved will be deemed as non-conformance. Such data is unacceptable and resubmission in the specified format will be required.

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

# 3.0.0 Data Validation

- 1. ZDHC routinely requests laboratory QA/QC information in accordance with *Figure 3* and *Figure 4* from randomly selected laboratories. The following information may be requested for data review:
  - a. Calibration Curves
  - b. Method Blank Instrument Reports
  - c. Calibration Check Sample Instrument Reports
  - d. Laboratory Control Sample Instrument Reports
  - e. Laboratory Duplicate Instrument Reports
  - f. Matrix Spike and Matrix Spike Duplicate Instrument Reports
  - g. Sample Custody Documentation
- 2. Failure to meet the ZDHC quality assurance objectives may result in the rejection of a data set.

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

Version 1.0 | June 2019

20

# **Appendix A Example Chain of Custody Form**

urn Around Time (working days) CHAIN of CUSTODY
ZDHC Wastewater Evaluation ampling Date οN SəY Other ηiΑ Water lioS No. of Containers Lab Sample No. ample I.D.

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

Version 1.0 | June 2019

# **Appendix B Shipping and Customs Forms**

If the following forms are completed, and accompany the samples during international shipment, the chance for shipping delays in customs will be minimised:

- Safety Data Sheet (SDS) for water samples. This illustrates that the wastewater samples
  are not some type of known hazardous material. You can use Google to find some publicly
  available examples
- Customs declaration forms for various countries, such as the one presented below, can be found at this link: <a href="https://www.bing.com/images/search?q=Customs+Declaration+Form+PDF&FORM=IDINTS">https://www.bing.com/images/search?q=Customs+Declaration+Form+PDF&FORM=IDINTS</a>

CUSTOMS DECLARATION	May be o	opened C	N 22
Designated operator		Tiese t	ortant)
Constrients Or	ommercial o her		more town
Chartity and detailed disco of contents (1)	ription	Weight (In Ag)	Value (3)
For commercial flams only if known +65 tariff number and country of origin of goo		Total weight (h kg)	Total value (7)
I, the undersigned, whose nem- centry that the perfoculation given that the least rose not contain historically legislation to by profit Date and sension's signal are the	in the decid any derigen bil or cuclom	e atomore	this bend added and

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

Version 1.0 | June 2019

22

3. Toxic Substance Control Act (TSCA) Certification. This form certifies the sample is not a material which is hazardous to ship by air freight.

# TOXIC SUBSTANCE CONTROL ACT (TSCA) CERTIFICATION

Date:
(CHECK ONE SECTION ONLY)
POSITIVE CERTIFICATION:
—— "I CERTIFY THAT ALL CHEMICAL SUBSTANCES IN THIS SHIPMENT COMPLY WITH ALL APPLICABLE RULES OR ORDERS UNDER TSCA AND THAT I AM NOT OFFERING A CHEMICAL SUBSTANCE FOR ENTRY IN VIOLATION OF TSCA OR ANY APPLICABLE RULE OR ORDER THEREUNDER."
- OR -
NEGATIVE CERTIFICATION:
"I CERTIFY THAT ALL CHEMICALS IN THIS SHIPMENT ARE NOT SUBJECT TO TSCA."
COMPANY NAME:
COMPANY ADDRESS:
AUTHORIZED NAME:
AUTHORIZED SIGNATURE:
TITLE:
FEDERAL EXPRESS AWB#:
RETURN TO:
IF THE CERTIFIER IS UNSURE IF THEIR CHEMICAL SUBSTANCE IS SUBJECT TO TSCA COMPLIANCE, CONTACT THE ENVIRONMENTAL PROTECTION AGENCY, TSCA, ASSISTANCE OFFICE, WASHINGTON, D.C. (202) 544-1404 BETWEEN 8:30 AM AND 5:00 PM EST.
REVISED May 7, 1990
Toxic.392

© Stichting ZDHC Foundation. 2019. All rights reserved.

ZDHC Wastewater Laboratory Sampling and Analysis Plan (SAP)

23

