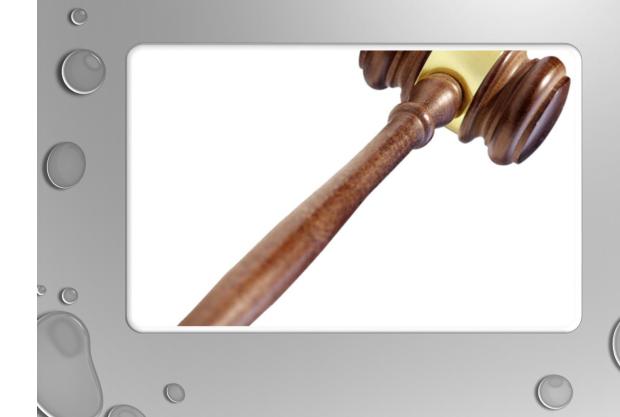
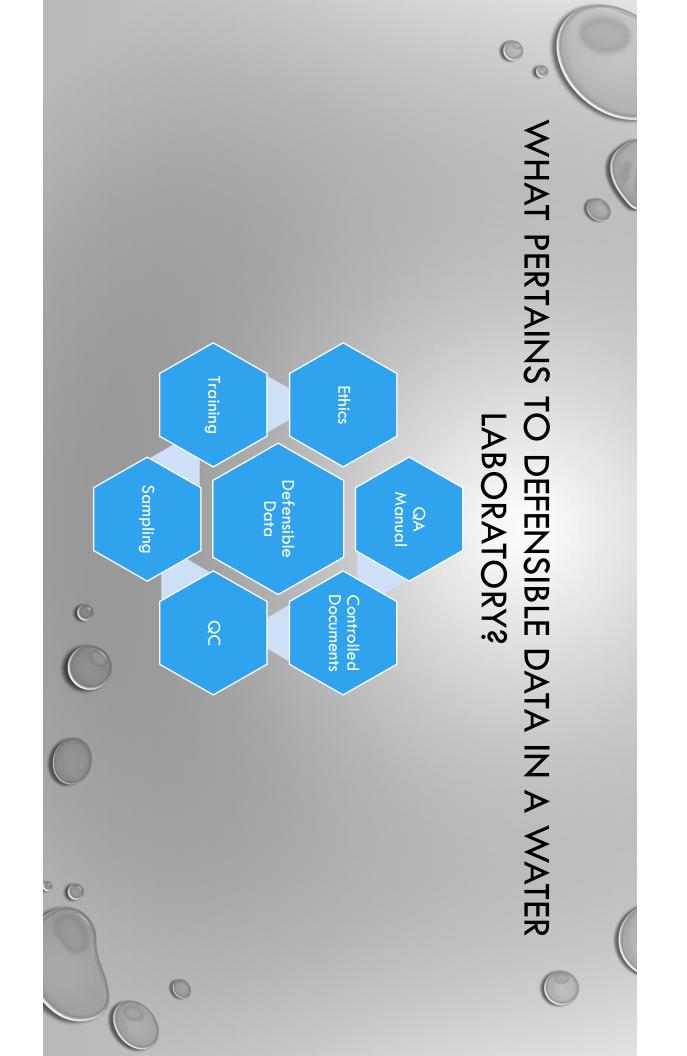


DEFENSIBLE DATA DEFINITION

DATA OF KNOWN QUALITY GENERATED BY A LABORATORY PERFORMING ANALYSIS WITHIN A DEFINED SET OF PROCEDURES, CONTROLLED DOCUMENTS AND BY ANALYSTS WHO HAVE DEMONSTRATED CAPABILITY OF PERFORMING THE TESTS WITHIN DISTINCT ACCEPTANCE CRITERIA.



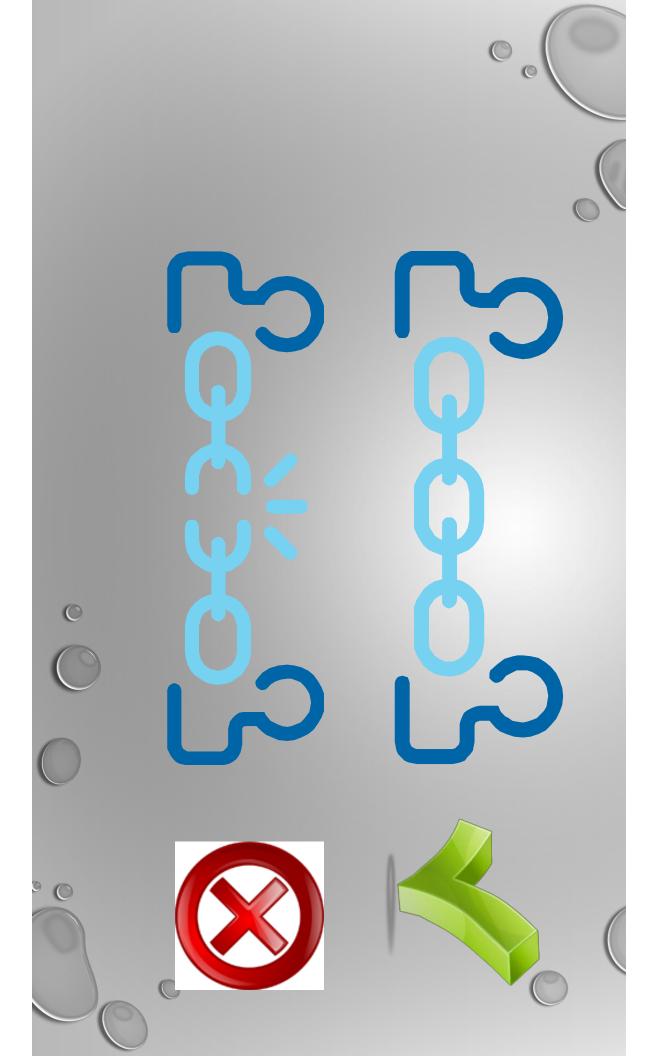


QA MANUAL

DATA OF KNOWN QUALITY

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- COSTS ASSOCIATED WITH QA OFFICER
 SALARY
- PROFICIENCY TESTING
- ANALYSIS OF QUALITY CONTROL
 STANDARDS
- ANALYSIS OF PRECISION & ACCURACY
 SAMPLES
- PERFORMING METHOD DETECTION LIMIT STUDIES
- TIME INVOLVED TO PERFORM INITIAL AND ONGOING DEMONSTRATION OF CAPABILITY
- TIME INVOLVED TO AUDIT LABORATORY

0



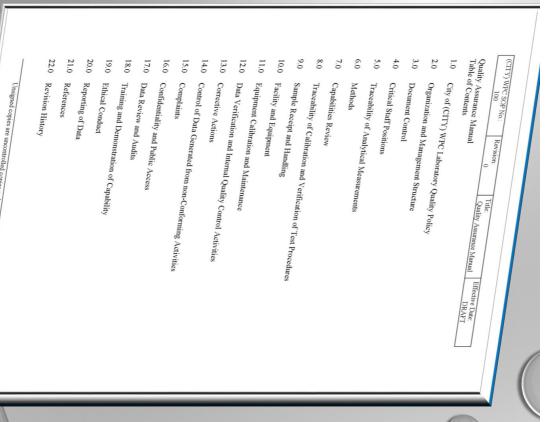


- MANAGEMENT COMMITMENT
- DEFINES THE PROCESS
- INSPECTS WHAT IS EXPECTED
- PERFORM DATA REVIEWS
- PERFORM LABORATORY AUDITS
- REVIEW ANALYST DURING
 ANALYSIS

- EMPLOYEE COMMITMENT
- UNDERSTAND EXPECTATIONS
- PERFORM ANALYSIS IN ACCORDANCE
 TO CURRENT SOPS
- PERFORM ANNUAL CAPABILITY STUDIES
- ANALYZE PT STANDARDS



- ORGANIZATIONAL CHART
- TRACEABILITY
- METHODS
- SAMPLE RECEIPT & HANDLING
- FACILITY & EQUIPMENT
- VERIFICATION OF DATA
- **CORRECTIVE ACTIONS**
- **ETHICS**
- **TRAINING**
- REPORTING OF DATA

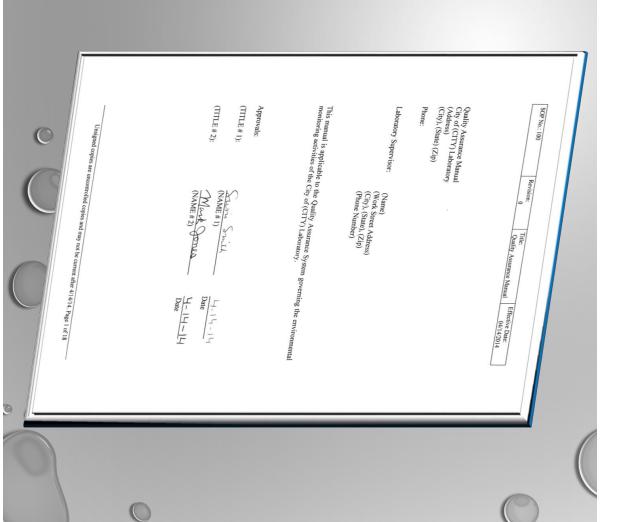








- ARE ALL DOCUMENTS REVIEWED AND APPROVED FOR ACCURACY PRIOR TO USE?
- ➤ IS THERE AN SOP ON HOW TO WRITE SOPS?
- > DEFINES FORMAT
- NUMBERING
- REVISIONS
- SECTIONS
- REVISION HISTORY



CONTROLLED DOCUMENTS

➤ DOES A MASTER LIST OF ALL

ESTABLISHED DOCUMENTS EXIST TO

PREVENT USE OF INVALID

DOCUMENTS?

> SOPS

> FORMS

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	Form Title Fire Exit Sign Inspection - Safety Safety Shower/Eye Wash - Safety Safety Shower/Eye Wash - Safety Safety Shower/Eye Wash - Safety Smoke Alam Inspection Nitrate STD Prep Ammonia STD Prep Ammonia STD Prep TS mg/L Data Sheet Ammonia Data Sheet TUDIDITY Data Sheet TVS Data Sheet TUDIDITY Calibration Data Sheet Turbidity Calibration Data Sheet Turbidity Calibration Data Sheet Turbidity Calibration Sheet Hex Chrome Data Sheet Hex Chrome Data Sheet Cyanide reagent tracking TKN Prep Sheet COD Data Sheet	
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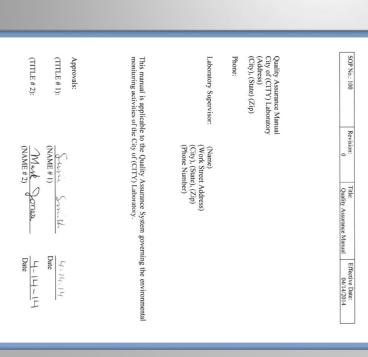


- > ARE COPIES OF APPROVED DOCUMENTS AVAILABLE AT WORKSTATIONS AND TO ALL LABORATORY PERSONNEL?
- ➤ HOW ARE DOCUMENTS ISSUED?
- DO PERSONNEL SIGN FORMS INDICATING ACKNOWLEDGEMENT OF NEW REVISIONS?
- ARE OBSOLETE DOCUMENTS CLEARLY LABELED AND MAINTAINED FOR HISTORICAL PURPOSES?

Revision Obsolete:

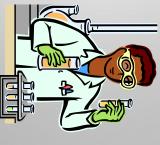
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- QUALITY ASSURANCE OFFICER
- MAINTAINS QUALITY SYSTEM
- PERFORMS INTERNAL AUDITS
- SIGNS OFF ON FORMS
- FILES ORIGINAL DOCUMENTS
- ALL PERSONNEL
- REPORTS DIRECTLY TO UPPER MANAGEMENT



- **EMPLOYEE RESPONSIBILITY**
- REVISIONS OF SOPS AND FORMS
- FORMS
- PERFORMING ON-GOING DEMONSTRATION
 OF CAPABILITY
- NOTIFYING QUALITY ASSURANCE OFFICER
 OF ALL ISSUES







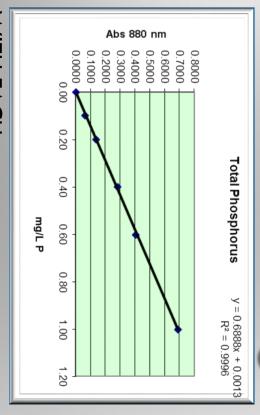
- OPERATIONS TAKEN TO ENSURE DATA ARE
 WITHIN KNOWN LIMITS
- METHOD BLANKS
- LABORATORY FORTIFIED BLANKS
- DUPLICATES
- MATRIX SPIKE / MATRIX SPIKE DUPLICATE



QUALITY ASSURANCE

- IS THE OVERALL PROCESS OR SYSTEM BY
 WHICH THE LABORATORY CAN ASSURE
 OUTSIDE INVESTIGATORS THAT THE DATA IS
 OF KNOWN QUALITY
- THE QA MANUAL DEFINES THE LABORATORY PROCESSES

- ARE QC ACTIVITIES AND PROTOCOLS CLEARLY ESTABLISHED FOR **EACH ANALYTE?**
- ARE QC ACTIVITIES BEING PERFORMED?
- ARE DECISION TREES IN PLACE?
- IS A METHOD BLANK RUN WITH EACH BATCH?
- **BATCH?** IS A LABORATORY FORTIFIED BLANK ANALYZED WITH EACH
- ARE THE CALIBRATION CURVE ACCEPTANCE CRITERIA DEFINED?
- ARE CONTINUING CALIBRATION VERIFICATION STANDARDS ANALYZED AND IS THE FREQUENCY DEFINED?

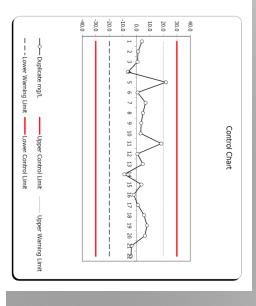


MARE CONTROL CHARTS IN USE?

MARE LIMITS CLEARLY ESTABLISHED?

ACCURACY INCLUDE QC SAMPLES
AND SPIKES?

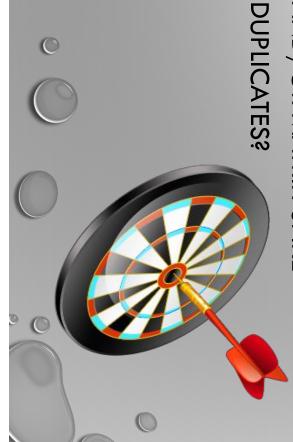
MARE CONTROL CHARTS IN USE?



WARE LIMITS ESTABLISHED (EITHER USING SHEWHART CONSTANTS OR RPDS)?

PRECISION INCLUDE DUPLICATES

AND/OR MATRIX SPIKE



RECEIPT & HANDLING SAMPLING 0

SOP, PRESERVATION & HOLD TIME

(T:# 0 # 0)	(Title # 2)	(Title # 1)	Approvals:	(City) SOP No.: 107	
				Revision: 0	
	D	D		Title: Drinking Water Sampling	
	Date:	Date:		Iter Effective Date:	

1.0 Sampling for The Determination of Following Analyte(s)

- <u>-1</u> This method is NOT intended to supply directions for sampling in high hazard situations. It is intended to be a guide for sampling in a confined space nor involves explosive or flammable conditions.

 Metals in wastewater
- Nutrients such as phosphorus General water characteristics
- 11112

2.0 Applicable Matrix (s)

1 Drinking Water 2 Ground Water 3 Well Water

3.0 Objective

- 3.1 The objective of sampling is to collect a portion of material small enough in volume to be transported conveniently and large enough for analytical purposes while accurately representing the material being sampled.
- It is also the objective of sampling to preserve the concentration of all pertinent components in the sample in the same concentration as they were in the material being samples.
- 3. 3 It is also necessary to handle the samples in such a way that no significant changes in composition occur before the test(s) are completed.

 This procedure addresses the collection and preservation of water and
- 3.4

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Contaminant	Preservative ¹	Container ²	Time ³
Antimony	HNO3	PorG	6 months
Arsenic	Conc HNO ₃ to pH <2	PorG	6 months
Asbestos	4 °C	PorG	48 hours ⁴
Barium	HNO ³	PorG	6 months
Beryllium	HNO ³	PorG	6 months
Cadmium	HNO ³	PorG	6 months
Chromium	HNO³	PorG	6 months
Cyanide	4 °C, NaOH	PorG	14 days
Fluoride	None	PorG	1 month
Mercury	HNO ³	PorG	28 days
Nickel	HNO3	PorG	6 months
Nitrate	4 °C	PorG	48 hours ⁵
Nitrate-Nitrite ⁶	H2SO4	PorG	28 days
Nitrite	4 °C	PorG	48 hours
Selenium	HNO3	PorG	6 months
Thallium	HNO3	PorG	6 months

"For cyanide determinations samples must be adjusted with sodium hydroxide to ph 12 at the time off collection. When chilling is indicated the sample must be shipped and stored at 4 °C or less. Acidification of nitrate or metals samples may be with a concentrated acid or a dilute (50% by volume) solution of the applicable concentrated acid. Acidification of samples for metals analysis is encouraged and allowed at the laboratory rather than at the time of sampling provided the shipping time and other instructions in Section 8.3 of EPA Methods 200.7 or 200.8 or 200.9 are followed.

²P = plastic, hard or soft; G=glass, hard or soft

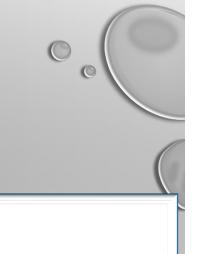
³In all cases samples should be analyzed as soon after collection as possible. Follow additional (if any) information on preservation, containers or holding times that is specified in method.

Instructions for containers, preservation procedures and holding times as specified in Method 100.2 must be adhered to for all compliance analyses including those conducted with Method 100.1.

 $^{\mathrm{sif}}$ the sample is chlorinated, the holding time for an unacidified sample kept at 4 $^{\circ}\mathrm{C}$ is extended to 14 days.

Nitrate-Nitrite refers to a measurement of total nitrate

(3) Analysis under this section shall only be conducted by laboratories that have been certified by EPA or the State. Laboratories may conduct sample analysis under provisional certification until January 1, 1996. To receive certification to conduct analyses for anthrony, arisenic, asbestos, barium, berylium, cadmium, chromium, cyanide, fluoride, mercury, nickel, nitrate, nitrite and selenium and thallium, the laboratory



SAMPLING INSTRUCTIONS SYNTHETIC ORGANIC COMPOUNDS (SOCs)

adequate flushing of the piping between the tap and the water main of the water in the main. The tap must be opened fully and the water allowed to run for at least 3-5 minutes to provide NOTE: Flush out the piping between the tap and water main. The sample to be collected is intended to be representative

containing sodium thiosulfate to the top, leaving NO HEADSPACE <u>Method 504.1</u> – Analytes of interest: Dibromochloropropane (DBCP) and Ethylene Dibromide (EDB). Fill three 40-mL vial

<u>Method 508</u> - Analytes of interest: Aldrin, Chlordane, Dieldrin, Endrin, Heptachlor, Heptachlor Epoxide, Hexachlorbenzene, Hexachlorocyclopentadiene, Lindane, Methoxychlor, and Toxaphene. Fill two amber quarts containing sodium thiosulfate.

<u>Method 515.1</u> – Analytes of interest: Dalapon, Dicamba, 2, 4-D, Dinoseb, Pentachlorophenol, Picloram, and 2,4, 5-TP (Silvex). Fill two amber quart bottles containing sodium thiosulfate.

a-pyrene, Dl(2-ethyhexyl)adipate and Dl(2-ethyhexyl)phthalate. Fill two amber quarts containing sodium sulfite. Add 3 mL of 1:1 HCl after filling container with sample. Method 525.2 - Analytes of interest: Alachlor, Atrazine, Butachlor, Metolachlor, Metribuzin, Propachlor, Simazine, Benzo

<u>Method 531.2</u> – Analytes of interest: Aldicarb, Aldicarb Sulfone, Aldicarb Sulfoxide, Carbaryl, Carbofuran, 3-Hydroxycarbofuran, Methomyl and Oxamyl (Vydate). Fill one 240-mL amber bottle containing sodium thiosulfate, potassium, and dihydrogen citrate.

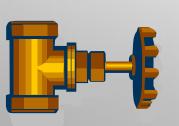
<u>Method 547</u> – Analyte of interest: Glyphosate. Fill three 40-mL vials containing sodium thiosulfate, leaving NO HEADSPACE.

Method 548.1 – Analyte of interest is Endothall. Fill one un-preserved 240-mL amber bottle

Sulfuric Acid after filling the container with the sample. $\underline{\text{Method }549.2}$ - Analyte of interest is Diquat. Fill one amber plastic quart containing sodium thiosulfate. Add 5-mL of 1:1

SAMPLES MUST BE KEPT COLD. PLEASE PLACE SAMPLES IN COOLER. FILL ZIPLOC STORAGE BAGS WITH ICE AND PLACE UPRIGHT IN COOLER WITH SAMPLES. SEND TO LAB VIA NEXT-DAY DELIVERY.

Samples for any SOC method MUST be received at the lab at or below 6° C. We recommend that you collect the sample, then place it in the refrigerator overnight. Ship the sample the next day using an overnight/next-day delivery service. Make sure you pack the sample in plenty of ice. Ziploc bags filled with actual ice work better than ice packs. Please cushion the samples with plenty of bubble wrap, newspaper, or another material. Place samples upright in cooler.





- WHAT TYPE OF BOTTLE
- GLASS
- PLASTIC
- WHAT PRESERVATIVE
- HCI
- SODIUM THIOSULFATE
- HOW MUCH VOLUME
- WHERE TO COLLECT
- IDENTIFY TESTS REQUIRED
- GRAB SAMPLE
- COMPOSITE SAMPLE
- HOLDING TIME
- IS COOLING REQUIRED







- DEFINE PROCEDURES FOR HANDLING
- TRANSPORTATION
- RECEIPT
- PROTECTION
- TRACKING
- STORAGE
- RETENTION
- DISPOSAL

- 1.0 Scope and Application
- This document describes the procedure to be followed for receiving, logging subcontracted to other laboratory,
 subcontracted to other laboratories,
- 2.1 WTP Water Treatment Plant
 2.2 COC Chain of Custody
 2.3 EPA Environmental Protection Agency
- 3.0 Summary

- 3.1 Areas are assigned for the acceptance of samples
 3.2 Samples are inspected and samples inspected and samples and dentifier used for tracking and entered in the tracking system for a unique 3.4 Chain of custody is completed for samples sent to other laboratories

- 4.1 Samples are only received in the sample receiving area.
 4.2 Samples obtained from the facility that are process only within facility laboratory sample location, date, sample information must be supplied for used.
 4.3 Samples that will leave premises for analysis will make severation, completed. If available the receiving laboratory's chain of custody should be

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SAMPLE RECEIPT

SAMPLE ACCEPTANCE

- DEFINE PROCESS TO:
- DOCUMENT SAMPLE CONDITION
- DOCUMENT ABNORMALITIES
- NOTIFICATION OF NON-CONFORMANCE
- CREATE SAMPLE RECEIPT CHECKLIST
- USE CHAIN OF CUSTODY

- DESCRIBE PROCESS OF ACCEPTANCE AND REJECTION OF SAMPLES
- IDENTIFY INFORMATION REQUIRED TO DESCRIBE THE SAMPLE
- SAMPLE IDENTIFICATION
- LOCATION
- DATE & TIME COLLECTED
- SAMPLER'S NAME
- PRESERVATION TYPE
- MATRIX
- RECEIVED WITHIN HOLDING TIME
- SUFFICIENT VOLUME FOR ANALYSIS REQUIRED



CHAIN OF CUSTODY REVIEW

- ESTABLISH PROCEDURES TO REVIEW FOR:
- SAMPLE IDENTIFICATION
- PROJECT IDENTIFICATION
- SAMPLE LOCATION
- DATE & TIME OF COLLECTION
- SAMPLER NAME
- PRESERVATIONS USED
- DATE AND TIME RECEIVED
- RELINQUISH AND RECEIVE BY SIGNATURES

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Received for Laboratory By: (circle one):							3								Location									
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							by:								Sample Time	Springs			Fax 8	Address	Company	Name:		
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1							Date								Matrix Cox								ument that autiples submitted	<u> </u>
							Time								Number of Container								This is a legal document that authorizes Alexany to perform testing on samples submitted under this agreement.	2
_	0			Ci-	Fed Ex	<u>§</u>	Method of Delivery								Matrix Code Number of Preservation Code #	2 Worl							To be a	Chain of Custody Decord
	0 0		9 9	0 8	W G.	9.6										2 Working Days	Next Day							
	- product	- acid	s - solid sg - sludge	w - wdder	der drinking water ser-surface water	pw - groundwater	Matrix Codes:								Α.									
	STRONG NG	NOM:	å	3 - H,800	2.1800	100	70								Analysis Required	5 Working Days	3 Working Days							
	NA/OH 13 - bar? 20*8	11 - Ammoréum Chloride	15 10 10	5-Wass 400	8 - Agoortic A	7 - Sodian Thoughts	Preservation Codes:								ag.	Ď	Turnaround: (Rush Charges May Apply) 3 Working Days							
	·		14 - Loden Seffetoden Swette		E-Jacorde Aced Summ	13-Zirk Acelate	Codes:									20								
Container Temperature:		V O	Proper Preservation?	v o	ice Present?	(Act rep decret)	Sample Receiving								LIMS # For Lab Use Only	Routine]							



TRAINING SOP

- SOP ON HOW TO TRAIN
- KEEPS TRAINING CONSISTENT
- IDENTIFIES FORMS USED IN TRAINING PROCESS
- IDENTIFIES GENERAL TRAINING REQUIREMENTS
- IDENTIFIES ANALYTICAL TRAINING REQUIREMENTS

(City) SOP No. 201 Approvals: (Title # 1): (Title # 2): (Title # 3):	0.201 Revision: 0 Title: Training of Laboratory Pensons in Date Date Date
O Title Trail	Techye Date DRAFT

1.0 Scope and Application

- 1.1 This procedure is used for new employee orientation.
 1.2 This procedure is to be used for the initial training of laboratory bersonnel and procedure is used to demonstrate requirements.
 1.3 This procedure is used to demonstrate competency to personnel and procedure are met.
 1.4 Analysi(s) training will be considered up to date when the requirements of this

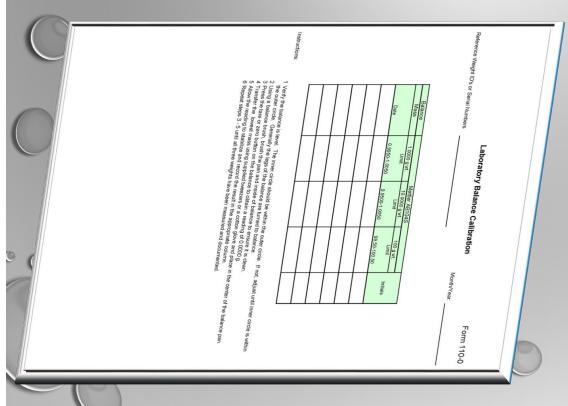
- 2.1 New employees are given orientation to perform their job assignment.
 2.2 Employees are trained in good laboratory practices,
 2.3 Analysts are trained on specific task they will be required to perform,
 2.4 Competency of analyst is assured by demonstration of proficiency.
- 3.0 Definitions

- general practices (GLP) Good Laboratory Practices general practices in the laboratory that must be followed in order to have perform an analytical procedure and assure that possible to have expectations, analytical procedure and obtain results within performance of analytical procedure sor other activities in the laboratory the performance of analytical procedures or other activities in the laboratory.

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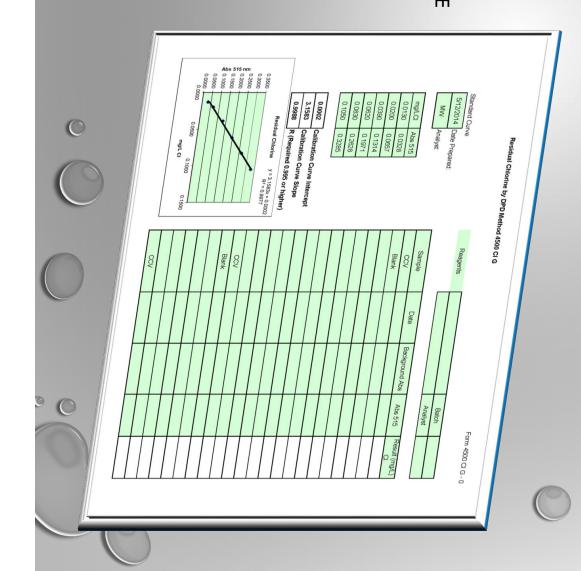


- GOOD LABORATORY PRACTICES
- TRAINING
- READ QA MANUAL, ETHICS SOP
- BALANCE VERIFICATION
- FREQUENCY
- WEIGHTS TO USE
- MECHANICAL PIPET
 VERIFICATIONS
- THERMOMETER VERIFICATIONS
- CORRECTION FACTOR
- PARTIAL VERSUS TOTAL
 IMMERSION





- USE SOP TO TRAIN ANALYST
- ANALYST TO READ SOP AND SIGN FORM
 INDICATING THEY READ AND UNDERSTAND THE
 SOP
- TRAINING TO INCLUDE
- INSTRUMENTATION TRAINING AND MAINTENANCE
- CALIBRATION CURVE PREPARATION IF APPLICABLE
- MDL STUDY
- COMPLETION OF IDOC





READ & UNDERSTAND FORM

FORM 5650-0

DOCUMENTATION FORM

Per the requirements set forth by this facility, the following form has been developed for document procurement. The form is to be utilized for documentation of training on manuals, standard operating procedures, or other internal forms within the laboratory. By signing below, the individual has read and understands the document.

SOP Number	SOP Title	SOP Revision Number

SIGNATURE:

ANALYST NAME:

DATE:

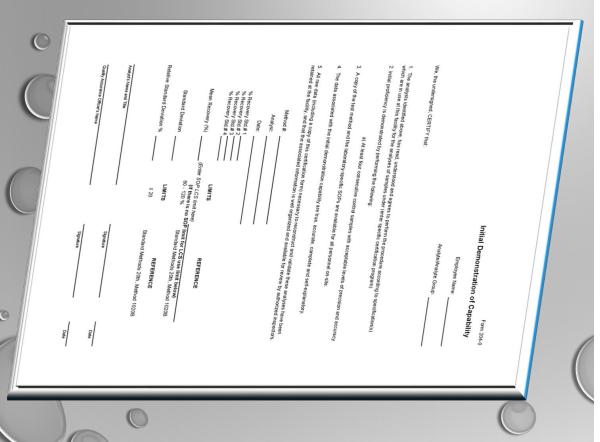
QA APPROVAL:

DATE:



IDOC

- IDOC INITIAL DEMONSTRATION OF CAPABILITY
- ANALYZE A LABORATORY FORTIFIED
 BLANK 4 TIMES
- CALCULATE PRECISION & ACCURACY
- ARE RESULTS WITHIN METHOD
 SPECIFIED LIMITS?



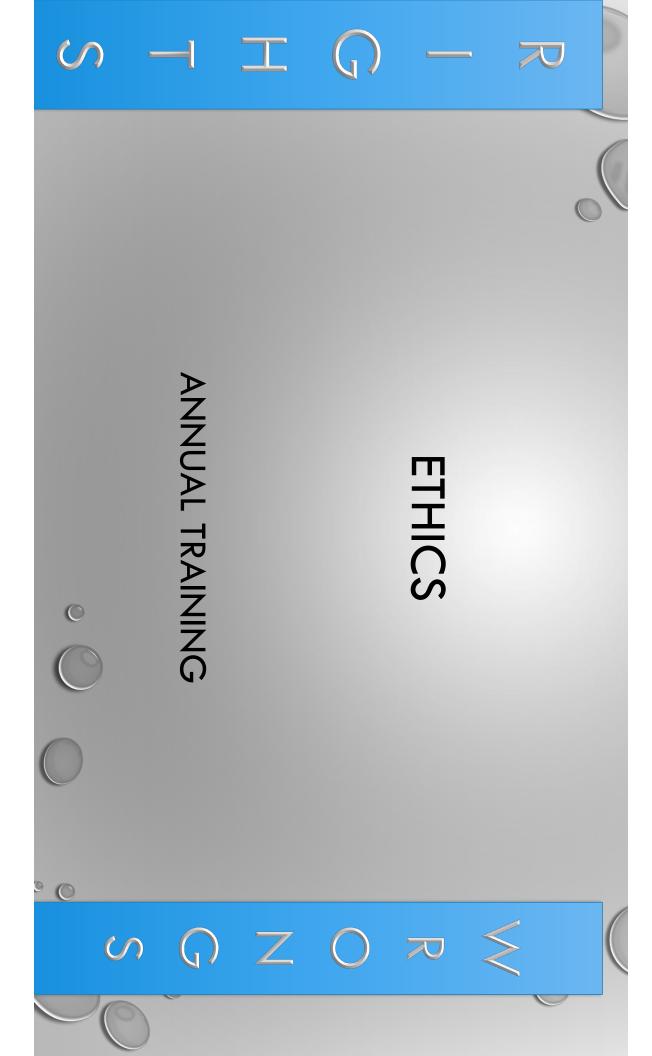


ANNUALLY DEMONSTRATE CONTINUED CAPABILITY TO MEET METHOD REQUIREMENTS

- PT STUDY
- 4 FORTIFIED BLANKS
- BLIND SAMPLE ANALYSIS
- PERFORM ANOTHER IDOC



- TRAINING DOCUMENTS TO BE FILED IN EACH PERSON'S TRAINING **FOLDER**
- PAPER COPIES
- PDF DOCUMENTS
- TRAINING FOLDERS TO BE SEPARATE FROM PERSONNEL FILES
- EACH ANALYST RESPONSIBLE TO ENSURE TRAINING FILES ARE UP TO DATE AND CONTAIN ALL TRAINING RECORDS
- PERFORMANCE BASED



ETHICS SOP

10 Scope and Application	Approvals: Lab Supervisor:	SOP No.:200
		Revision:
	Date:	Title: Training-Ethical Conduct
		Effective Date:

- 1.1 This procedure defines basic requirements for ethical conduct but does not list or limit the all actions that are violations of ethical conduct. It is used as a training tool in order to instill the commitment to operate the laboratory in an
- 1.2 ethical manner.

 This procedure is applicable to all services and analysis supplied by the laboratory.
- 1.3 Ethical conduct applies to data generation and interaction with our customers
 1.4 Ethical conduct applies to our interaction with fellow employees.
 1.5 This procedure is used to train employees.
- 2.0 Ethics Policy
- 2.1 It shall be the policy of the management of the WTP laboratory to conduct business with integrity and in an ethical manner. It is the responsibility of each staff member to hold to the highest ethical standard of professional conduct in the performance of duties
- 3.0 Equipment and Supplies
- 3.1 Ethical Training Form

4.0 Procedure

- 4.1 Employees will be trained using this SOP. Reading and agreement to comply will be documented.
 4.2 Each employee is responsible to comply with the requirements of this procedure. This procedure is NOT an exhaustive list of all unethical behavior

QA APPROVAL:

DATE:

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FORM 5650-0

DOCUMENTATION FORM

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SOP Number	SOP Title	SOP Revision Number
ANALYST NAME:		
SIGNATURE:		
DATE:		



WHAT IS ETHICS?

ENCOURAGES GOODNESS

ш

TEACHES EMPLOYEES TO BE COGNITIVE TO ETHICAL ISSUES

HONORABLE BEHAVIOR

I

INVOLVES RIGHTS AND WRONGS

CONSCIENCE OF INDIVIDUALS

STANDARDS OF SOCIETY

S

Ethics

Ethics in business moral principles rules and regulation of right conduct rec of right chat guide t





ENCOURAGES GOODNESS

- WHAT IS "GOODNESS"?
- DECENCY
- EXHIBITING GOOD MANNERS AS JUDGED BY SOCIETY
- FOLLOWING PROPER ETIQUETTE
- ACTIONS AND BEHAVIOR DEEMED RESPECTABLE BY OTHERS
- RIGHTEOUSNESS
- FAIRNESS
- JUSTNESS
- HONOR

0





- COGNITIVE TO ETHICAL ISSUES?
- ANNUAL TRAINING PROVIDES A MEANS TO REMIND US OF OUR MORAL BELIEFS
- MANAGEMENT

 REITERATES EXPECTATIONS OF EMPLOYEES AND
- EXPLAINS THE PROCESS OF REPORTING BREECHES IN ETHICAL CONDUCT
- IDENTIFIES POSSIBLE PUNISHMENT

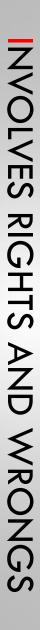




HONORABLE BEHAVIOR

- THE ACT OF PERFORMING IN ACCORDANCE TO SOCIETY'S NORM ("PERFORMING A GOOD DEED")
- A PERSON IN THE GROCERY LINE AHEAD OF YOU DROPS A \$20 BILL
- DO YOU PICK IT UP AND GIVE IT TO THEM OR ALERT THEM OR:
- DO YOU WAIT UNTIL THEY LEAVE AND PICK IT UP AND PUT IT IN YOUR POCKET
- SPEAK THE TRUTH
- BE LOYAL
- BE EMPATHETIC









- IS IT RIGHT TO:
- PICK UP LOOSE CHANGE FROM SOMEONE'S DESK
 WITHOUT ASKING?
- USE STEROIDS TO ENHANCE ATHLETIC PERFORMANCE?
- DOCUMENT EQUIPMENT CHECKS THAT WERE NEVER PERFORMED?
- LOOK THE OTHER WAY AND NOT REPORT AN OBSERVED UNETHICAL ACT?



CONSCIENCE OF INDIVIDUALS



- SENSITIVITY TO OTHERS
- PUT YOURSELF IN SOMEONE ELSE'S SHOES
- IDENTIFY WITH SOMEONE'S EXPERIENCE
- UNDERSTAND HOW YOUR ACTIONS AFFECT SOMEONE ELSE
- DECIDE WHAT ACTION IS THE BEST BASED
 UPON MORAL BELIEFS



STANDARDS OF SOCIETY

- CODE OF CONDUCT
- GOLDEN RULE
- TREAT OTHERS AS YOU WOULD LIKE TO BE TREATED
- TEN COMMANDMENTS
- THOU SHALL NOT KILL
- THOU SHALL NOT STEAL
- CODE OF THE INTERNATIONAL RED CROSS
- RACE, CREED OR NATIONALITY OF THE RECIPIENTS AND WITHOUT ADVERSE DISTINCTION OF ANY KIND."





OUR MORAL DECISIONS





- WATER SUPPLY USERS
- INDUSTRY
- BEVERAGE COMPANIES
- · COCA-COLA
- PEPS
- RESTAURANTS
- RESIDENTIAL









HOW OFTEN IS ETHICS TRAINING REQUIRED?

- NEW EMPLOYEES
- MINIMUM OF ONCE PER YEAR
- TRAINING CAN BE PERFORMED INTERNALLY
- DOCUMENT MATERIALS TRAINED
- SIGNATURE LOG OF THOSE ATTENDING TRAINING



WHAT IS GOOD DATA?

GOOD DATA IS DEFENSIBLE

- RESULTS THAT ARE TECHNICALLY VALID
- SAMPLES COLLECTED USING CONTROLLED PROCEDURES
- SAMPLES PRESERVED PROPERLY
- SAMPLES ANALYZED WITHIN HOLDING TIMES
- QUALITY CONTROL WITHIN LIMITS
- QUALITY OBJECTIVES MET
- METHOD DETECTION LIMIT STUDIES PERFORMED.
- REPORTING LIMITS VERIFIED WITH EVERY ANALYTICAL RUN

- RESULTS THAT ARE WELL DOCUMENTED
- QUALITY MANUAL
- SOPS
- TRAINING
- TRACEABILITY
- REAGENTS
- INSTRUMENTATION
- ANALYTICAL DATA DOCUMENTATION
- WHO, WHAT, WHERE, WHEN & HOW
- CALIBRATION DATA