WASTEWATER TESTING REPORTING



- ► Sampling Wastewater
- ► Proper Paperwork Required
- ► Shipping Requirements



Sampling Wastewater

- ▶ Proper Bottles
- ► Preserving Samples



USE PROPER BOTTLE(S)



Proper Bottle

Plastic vs Glass





Proper Bottles

Foam vs Teflon Lined Lid





Proper Bottles

- ▶ Plastic vs Glass
- ► Foam vs Teflon Lined Lids
- ► Headspace vs No Headspace



VOC SAMPLE COLLECTION

No Headspace in Bottles!!!



TRIP BLANK



Preserving Samples

► Which Acid: <u>nitric</u>, <u>sulfuric</u>, <u>hydrochloric</u>?// HNO3 H2SO4 HCL

► How Much?



PRESERVING SAMPLES





SAMPLE RECEIPT CHECKLIST

om	oany I	Nam	e	Da	ate/Tin	ne Received	Date	1	Time	
roje	ct	Received by								
ab Number(s) Carrier Name										
'es	No		UNP	ACKING	<u>G</u>				Initials	
		1.	Shipping container in good condition?							
		2.	11/25 3/240 24	er?				8—		
			Ice / Blue Ice (circle one) present in ship	<u> </u>	3	4	 68	Si-	<u></u>	
			Custody seals on sample bottles? Condition: Intact Broken	J				85-		
'es	No		LAE	BELING					Initials	
		6.	Chain of custody Present?					-		
		7.	7. Chain of custody includes signatures, dates, and times when relinquished and received?							
		8.	Chain of custody agrees with bottle count?	•						
		9.	Chain of custody agrees with labels?					W		
		10	Samples received within holding times?					8		
		11.	. Samples in proper container?					_		
		12	. Sufficient sample volume for indicated test	s?				8		
			PRES	SERVA	TIVE					
'es	No		Initials	Yes	No				Initials	
		13	. Metals bottle(s) pH < 2?			17. TOC bottle(s) pH < 2?			
		14	. Nutrient bottle(s) pH < 2?			18. Oil & Grease	bottle(s) pl	H < 2	?	
		15	. Cyanide bottle(s) pH > 12?			19. Volatiles pH	< 2?		2 2	
		16	. Sulfide bottle(s) pH > 9?							
CO	ММЕ	NT	S:							

		Chain of custody Present?			S					
		7. Chain of custody includes signatures, dates, and times when relinquished and received								
		8. Chain of custody agrees with bottle cou	Chain of custody agrees with bottle count?							
		9. Chain of custody agrees with labels?			V2					
		10. Samples received within holding times?	>		ε 					
		11. Samples in proper container?			8- <u></u>					
		12. Sufficient sample volume for indicated t	tests?		8. 7					
		PF	RESERVA	TIVE						
Yes	No	Initials	Yes	- 5		Initials				
		13. Metals bottle(s) pH < 2?			17. TOC bottle(s) pH < 2?					
_		14. Nutrient bottle(s) pH < 2?			18. Oil & Grease bottle(s) pH < 2?					
	700									
		15. Cyanide bottle(s) pH > 12?			19. Volatiles pH < 2?	2				

PAPERWORK

- ► Bottle Labels
- ► Chain-of-Custody

PAPERWORK

MID	CONTINEN	2381 S. Plaza Dr. • P.O. Box 3388 • Rapid City, SD 57709 (605) 348-0111
2381 S. Plaza Dr. • P.O. Box 33 (605) 348		COMPANY:
COMPANY:		SAMPLING DATE:TIME: METALS BOTTLE
SAMPLE LOCATION:	TIME:	Preservative: Nitric Acid
MINERAL B Preservative:		FORM TIO-C
Preservative.	TVOTIC	Form 107-C IDCONTINENT TESTING LABORATORIES INC.
		2381 S. Plaza Dr. • P.O. Box 3388 • Rapid City, SD 57709 (605) 348-0111
	COMPA	ANY:
		TION: TIME:
	SAMPLING DA	NITROGEN BOTTLE
	Preservative:	☐ Sulfuric Acid ☐ Refrigeration Form 109-C



CHAIN OF CUSTODY RECORD

2381 S. Plaza Dr. • P.O. Box 3388 • Rapid City, SD 57709 (605) 348-0111 • www.TheChemistryLab.com

Company	
Project Name / Mgr.	
Project Number	
Sampled by	Signature
Sampled by	Print
8	

PRESERVED WITH FILTERED (Y/N)
REFRIGERATED (Y/N)
ANALYSES REQUESTED

	FOR LAB USE ONLY
Seal In	tact (Y/N)/Number
Sample	Condition
Tempe	rature of Container

REQUEST	ED TURN AROUND
STANDARD_	RUSH

	SAMPLE NAME	DATE	TIME	MATRIX	NO. OF CONTAINERS					COMMENTS	LAB#
1											
2											
3											
4											
5											
6											
7											
8											
9											
10		_									4
11											
12											

RELINQUISHED BY (Signature)	COMPANY NAME	DATE	TIME	RECEIVED BY (Signature)	COMPANY NAME	DATE	TIME

PAPERWORK

Project Name / Mgr.								REFRIGERATI	ED (Y/N
	Project umber					7		ANALYSES	
Sa	ampled by	Signature	Jec	Sp	itt	<u></u>		REQUESTED	
Sa	mpled by	Print	Joe	Sn	nith				
		SAME	PLE NAME		DATE	TIME	MATRIX	NO. OF CONTAINERS	
1	He	aru	Met	als	5-2-25	10:01	H20	1	
2	BO	500			5-2-25	10:01			
3	A	mmc	onia		5-2-25	10:62			
4	V	OC	15		5-2-25	10:03		3	
5	2	4/01	nide		5-2-25	10:04	1 \	1	
6									
7									
8									
9									
10									

PAPERWORK

MIDCON MIDCON	ITINE	T		CHAIN	OF	C	US	STC	'ס(1
2381 S. Plaza Dr. • P.O. Box 3388 • Rapid (605) 348-0111 • www.TheChemistryLab.co	City, SD 57708			PRESE	RVED W	ітн /	HAB	1	120	
Company Some Town	San	iitar	3	FILTE	red (Y/N ed (Y/N)	-	1	1	-	1
Project Name / Mgr.					/.	e de				0
Project Number Signature		-0		ANALYSES REQUESTE				30		10/10
Sampled by	mis	h			12/2	36/2	4	12	1/1/2	
Sampled by Toe Sm	7th				00	~				
SAMPLE NAME	DATE	TIME	MATRIX	NO. OF CONTAINERS						
1 Nanhole	5/2/25	10:15	H20	7	X	X	X	X	X	
2	/ /									
3										
4										İ
6										1



CHAIN OF CUSTODY RECORD

2381 S. Plaza Dr. • P.O. Box 3388 • Rapid City, SD 57709 (605) 348-0111 • www.TheChemistryLab.com

Company	
Project Name / Mgr.	
Project Number	
Sampled by	Signature
Sampled by	Print

PRESERVED WITH
FILTERED (Y/N)
REFRIGERATED (Y/N)
ANALYSES REQUESTED
heddesteb / / / / / / /

FOR LAB USE ONLY	
Seal Intact (Y/N)/Number	
Sample Condition	
Temperature of Container	

REQUESTED TURN AROUND						
STANDARD	RUSH					

				-	_	_	-	-		-	-			
SAMPLE NAME	DATE	TIME	MATRIX	NO. OF CONTAINERS									COMMENTS	LAB#
	_													
	SAMPLE NAME	SAMPLE NAME DATE	SAMPLE NAME DATE TIME	SAMPLE NAME DATE TIME MATRIX	SAMPLE NAME DATE TIME MATRIX NO. OF CONTAINERS	SAMPLE NAME DATE TIME MATRIX NO. OF CONTAINERS	SAMPLE NAME DATE TIME MATRIX NO. OF CONTAINERS	SAMPLE NAME DATE TIME MATRIX CONTAINERS	SAMPLE NAME DATE TIME MATRIX NO. OF CONTAINERS	SAMPLE NAME DATE TIME MATRIX CONTAINERS	SAMPLE NAME DATE TIME MATRIX NO. OF CONTAINERS	SAMPLE NAME DATE TIME MATRIX NO. OF CONTAINERS	SAMPLE NAME DATE TIME MATRIX NO. OF CONTAINERS ONLY OF CONTAINERS ONLY OF CONTAINERS ONLY OF CONTAINERS	SAMPLE NAME DATE TIME MATRIX NO. OF CONTAINERS COMMENTS COMMENTS COMMENTS

RELINQUISHED BY (Signature)	COMPANY NAME	DATE	TIME	RECEIVED BY (Signature)	COMPANY NAME	DATE	TIME
							П

SHIPPING

- **►**Hold Times
- **▶**Temperature
- ▶ Weather
- ▶ Breakage

HOLD TIMES

Know the Hold Time Before Sampling

- ►BOD = 48 Hours
- ▶ Bacteria = 30 Hours (some 6 Hrs)
- ►Metals = 6 Months
- ►SOC's = 7 Days

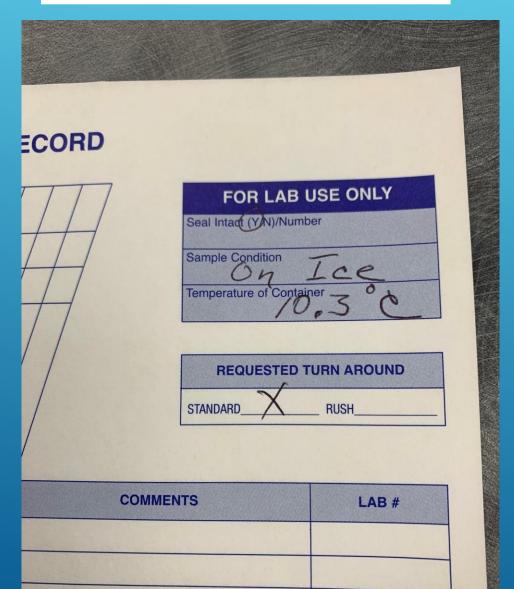
TEMPERATURE

Must be 6C (43F) or less

IF Sampled Same Day, any Temperature

IF The Sample is "ON ICE"

TEMPERATURE



TEMPERATURE





24

WEATHER

Weather Affects:

- **►**Hold Times
- **▶**Temperature



Weather Affects: Hold Times

When Shipping Know the Weather

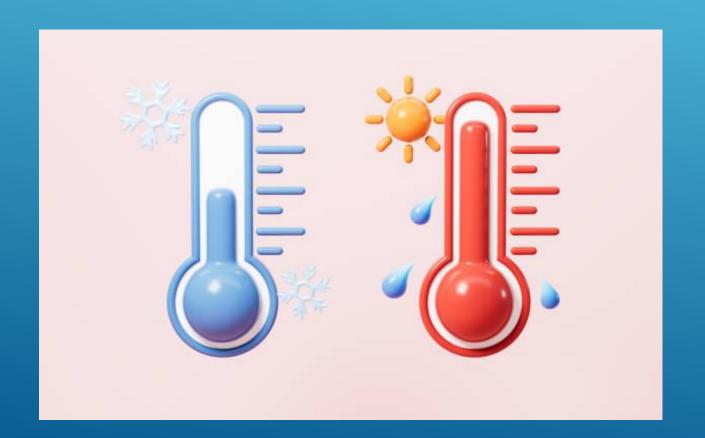
FedEx Flies to Memphis, TN
UPS Flies to Louisville, KY
Speedee Drives to Pierre, SD

Weather Affects:

► Sample Temperature

Will it Freeze?

Will the Ice Melt?



SHIPPING

▶ Breakage



- ► Sampling Wastewater
- ► Proper Paperwork Required
- ► Shipping Requirements



QUESTIONS?



AS LAB CLIENTS, YOU KNOW HOW THE SYSTEM WORKS





Send Sample to Lab







Send Sample to Lab



Pay Lots of Money



Send Sample to Lab



Pay Lots of Money



Get 5¢ Sheet of Paper



You Are Paying For The Data

- ▶ Better ways of utilizing data than from a sheet of paper
- ▶ PDF is better but is just an electronic sheet of paper
- ▶ You need live access to your data





We offer a full range of environmental testing, water quality testing, and oil analysis.

605-348-0111

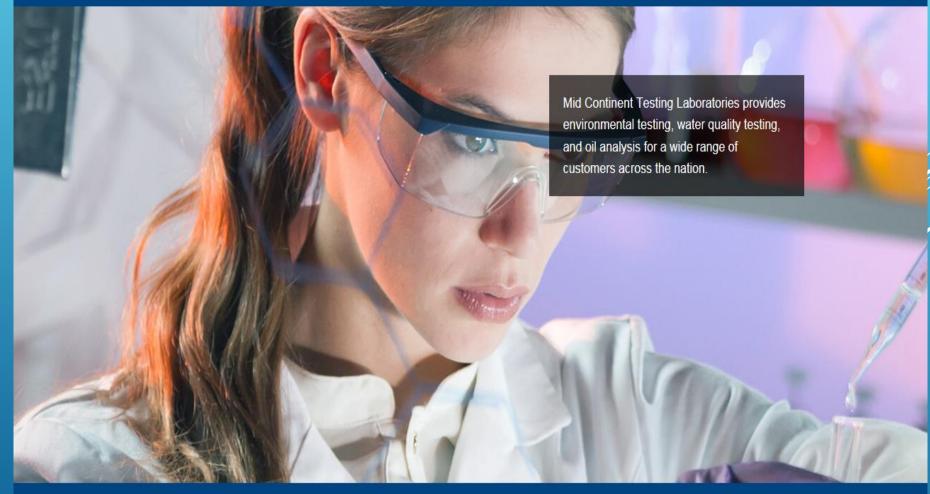
Client Login

Google Custom Search

Search

IE ENVIRONMENTAL TESTING WATER QUALITY OIL ANALYSIS FORMALDEHYDE TESTING CONTACT US

INTERNET ACCESS TO LABORATORY DATA





Our team of qualified professionals provide over 1,500 test results every day.

16 SECONDS **DRINKING WATER QUARTERLY CHLORINE REPORT**





USER DATA MENU



OTHER ONLINE FEATURES



12 SECONDS TO TRANSFER TO **EXCEL**



Reports

- > Custom Report
- > Export to Excel
- > Chlorine Quarterly Report
- > Maximum Limit Report
- > NPDES Report
- > Out of Max Limit Report
- > Reports
- > Results Review
- > View Chain of Custody

12 SECONDS TO TRANSFER **EXCEL**

V



DATA EVALUATION IN EXCEL



4	A	В	С	D	Е	F
1	Sample Name	Date Sampled	Time Sampled	Fecal Coliform	Total Coliform	Lab Number
2	732 Maple	6/18/2008	10:00 AM	Absent	Present	20080618846
3	732 Maple	4/19/2012	10:00 AM	Absent	Present	20120419806
4	732 Maple	8/19/2014	1:30 PM	Present	Present	20140819871
5	732 Maple	8/22/2014	11:10 AM	Present	Present	20140822818
6	732 Maple	2/3/2016	9:06 AM	Absent	Present	20160203837
7	742 Maple	8/22/2014	11:23 AM	Present	Present	20140822819
8	423 Main	4/2/2008	8:45 AM	Absent	Present	20080402842
9	477 Elm	10/6/2014	10:50 AM	Present	Present	20141006847
10	785 Ash	1/8/2004	5:00 PM	Absent	Present	20040109804
11	977 Ash	1/7/2004	1:55 PM	Absent	Present	20040107829
12	566 Apple Dr	10/6/2014	11:05 AM	Absent	Present	20141006846
13	812 Cottonwood	8/22/2012	10:20 AM	Absent	Present	20120822843
14	112 Main st	12/22/2003	8:00 AM	Absent	Absent	20031222839
15	321 Birch	1/28/2004	9:20 AM	Absent	Absent	20040128840



SUMMARY

You have already paid for the data

Utilize the Time Saving Features of Your Lab's Online Access



QUESTIONS?