



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P5141

Order ID: P5141

Client: VERINA CONSULTING GROUP, LLC

Project ID: Rotor Clip - PO# 5183.0001

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WATER TREATMENT DISCHARGE								
P5141-01	WATER TREATMENT DISCHA	Water	Chromium	359		0.66	5.00	ug/L
P5141-01	WATER TREATMENT DISCHA	Water	Copper	10.3		7.07	10.0	ug/L
P5141-01	WATER TREATMENT DISCHA	Water	Nickel	55.8		0.85	20.0	ug/L
P5141-01	WATER TREATMENT DISCHA	Water	Zinc	573		1.75	20.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	VERINA CONSULTING GROUP, LLC	Date Collected:	12/05/24
Project:	Rotor Clip - PO# 5183.0001	Date Received:	12/05/24
Client Sample ID:	WATER TREATMENT DISCHARGE	SDG No.:	P5141
Lab Sample ID:	P5141-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	12/09/24 09:10	12/10/24 12:57	SW6010	SW3010
7440-47-3	Chromium	359		1	0.66	5.00	ug/L	12/09/24 09:10	12/10/24 12:57	SW6010	SW3010
7440-50-8	Copper	10.3		1	7.07	10.0	ug/L	12/09/24 09:10	12/10/24 12:57	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	12/09/24 09:10	12/10/24 12:57	SW6010	SW3010
7440-02-0	Nickel	55.8		1	0.85	20.0	ug/L	12/09/24 09:10	12/10/24 12:57	SW6010	SW3010
7440-22-4	Silver	0.58	U	1	0.58	5.00	ug/L	12/09/24 09:10	12/10/24 12:57	SW6010	SW3010
7440-66-6	Zinc	573		1	1.75	20.0	ug/L	12/09/24 09:10	12/10/24 12:57	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group5			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits



- 3a -

Client:	VERINA CONSULTING GROUP, LLC		SDG No.:	P5141	
Contract:	VERI01	Lab Code:	CHEM	Case No.:	P5141
				SAS No.:	P5141

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Cadmium	6.00	+/-6.00	U	6.00	P	12/10/2024	11:20	LB133866
	Chromium	10.0	+/-10.0	U	10.0	P	12/10/2024	11:20	LB133866
	Copper	20.0	+/-20.0	U	20.0	P	12/10/2024	11:20	LB133866
	Lead	12.0	+/-12.0	U	12.0	P	12/10/2024	11:20	LB133866
	Nickel	40.0	+/-40.0	U	40.0	P	12/10/2024	11:20	LB133866
	Silver	10.0	+/-10.0	U	10.0	P	12/10/2024	11:20	LB133866
	Zinc	40.0	+/-40.0	U	40.0	P	12/10/2024	11:20	LB133866

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: VERINA CONSULTING GROUP, LLC **SDG No.:** P5141
Contract: VERI01 **Lab Code:** CHEM **Case No.:** P5141 **SAS No.:** P5141

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Cadmium	6.00	+/-6.00	U	6.00	P	12/10/2024	11:48	LB133866
	Chromium	10.0	+/-10.0	U	10.0	P	12/10/2024	11:48	LB133866
	Copper	20.0	+/-20.0	U	20.0	P	12/10/2024	11:48	LB133866
	Lead	12.0	+/-12.0	U	12.0	P	12/10/2024	11:48	LB133866
	Nickel	40.0	+/-40.0	U	40.0	P	12/10/2024	11:48	LB133866
	Silver	10.0	+/-10.0	U	10.0	P	12/10/2024	11:48	LB133866
	Zinc	40.0	+/-40.0	U	40.0	P	12/10/2024	11:48	LB133866
CCB02	Cadmium	6.00	+/-6.00	U	6.00	P	12/10/2024	12:39	LB133866
	Chromium	10.0	+/-10.0	U	10.0	P	12/10/2024	12:39	LB133866
	Copper	20.0	+/-20.0	U	20.0	P	12/10/2024	12:39	LB133866
	Lead	12.0	+/-12.0	U	12.0	P	12/10/2024	12:39	LB133866
	Nickel	40.0	+/-40.0	U	40.0	P	12/10/2024	12:39	LB133866
	Silver	10.0	+/-10.0	U	10.0	P	12/10/2024	12:39	LB133866
	Zinc	40.0	+/-40.0	U	40.0	P	12/10/2024	12:39	LB133866
CCB03	Cadmium	6.00	+/-6.00	U	6.00	P	12/10/2024	13:30	LB133866
	Chromium	10.0	+/-10.0	U	10.0	P	12/10/2024	13:30	LB133866
	Copper	20.0	+/-20.0	U	20.0	P	12/10/2024	13:30	LB133866
	Lead	12.0	+/-12.0	U	12.0	P	12/10/2024	13:30	LB133866
	Nickel	40.0	+/-40.0	U	40.0	P	12/10/2024	13:30	LB133866
	Silver	10.0	+/-10.0	U	10.0	P	12/10/2024	13:30	LB133866
	Zinc	40.0	+/-40.0	U	40.0	P	12/10/2024	13:30	LB133866
CCB04	Cadmium	6.00	+/-6.00	U	6.00	P	12/10/2024	14:24	LB133866
	Chromium	10.0	+/-10.0	U	10.0	P	12/10/2024	14:24	LB133866
	Copper	20.0	+/-20.0	U	20.0	P	12/10/2024	14:24	LB133866
	Lead	12.0	+/-12.0	U	12.0	P	12/10/2024	14:24	LB133866
	Nickel	40.0	+/-40.0	U	40.0	P	12/10/2024	14:24	LB133866
	Silver	10.0	+/-10.0	U	10.0	P	12/10/2024	14:24	LB133866
	Zinc	40.0	+/-40.0	U	40.0	P	12/10/2024	14:24	LB133866

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: VERINA CONSULTING GROUP, LLC

SDG No.: P5141

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB165464BL	WATER			Batch Number:	PB165464		Prep Date:	12/09/2024	
	Cadmium	3.00	<3.00	U	3.00	P	12/10/2024	12:01	LB133866
	Chromium	5.00	<5.00	U	5.00	P	12/10/2024	12:01	LB133866
	Copper	10.0	<10.0	U	10.0	P	12/10/2024	12:01	LB133866
	Lead	6.00	<6.00	U	6.00	P	12/10/2024	12:01	LB133866
	Nickel	20.0	<20.0	U	20.0	P	12/10/2024	12:01	LB133866
	Silver	5.00	<5.00	U	5.00	P	12/10/2024	12:01	LB133866
	Zinc	20.0	<20.0	U	20.0	P	12/10/2024	12:01	LB133866



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: VERINA CONSULTING GROUP, LLC **SDG No.:** P5141
Contract: VERI01 **Lab Code:** CHEM **Case No.:** P5141 **SAS No.:** P5141
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Cadmium	520	510	102	90 - 110	P	12/10/2024	11:04	LB133866
	Chromium	551	520	106	90 - 110	P	12/10/2024	11:04	LB133866
	Copper	546	510	107	90 - 110	P	12/10/2024	11:04	LB133866
	Lead	1030	1000	103	90 - 110	P	12/10/2024	11:04	LB133866
	Nickel	531	530	100	90 - 110	P	12/10/2024	11:04	LB133866
	Silver	264	250	106	90 - 110	P	12/10/2024	11:04	LB133866
	Zinc	1090	1000	108	90 - 110	P	12/10/2024	11:04	LB133866

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: VERINA CONSULTING GROUP, LLC **SDG No.:** P5141
Contract: VERI01 **Lab Code:** CHEM **Case No.:** P5141 **SAS No.:** P5141
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Cadmium	5.98	6.0	100	80 - 120	P	12/10/2024	11:08	LB133866
	Chromium	9.98	10.0	100	80 - 120	P	12/10/2024	11:08	LB133866
	Copper	22.8	20.0	114	80 - 120	P	12/10/2024	11:08	LB133866
	Lead	12.4	12.0	103	80 - 120	P	12/10/2024	11:08	LB133866
	Nickel	39.8	40.0	99	80 - 120	P	12/10/2024	11:08	LB133866
	Silver	10.6	10.0	106	80 - 120	P	12/10/2024	11:08	LB133866
	Zinc	45.5	40.0	114	80 - 120	P	12/10/2024	11:08	LB133866

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141
Contract: VERI01 Lab Code: CHEM Case No.: P5141 SAS No.: P5141
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Cadmium	2430	2500	97	90 - 110	P	12/10/2024	11:44	LB133866
	Chromium	1000	1000	100	90 - 110	P	12/10/2024	11:44	LB133866
	Copper	1240	1250	100	90 - 110	P	12/10/2024	11:44	LB133866
	Lead	4880	5000	98	90 - 110	P	12/10/2024	11:44	LB133866
	Nickel	2430	2500	97	90 - 110	P	12/10/2024	11:44	LB133866
	Silver	1240	1250	99	90 - 110	P	12/10/2024	11:44	LB133866
	Zinc	2520	2500	101	90 - 110	P	12/10/2024	11:44	LB133866
CCV02	Cadmium	2360	2500	95	90 - 110	P	12/10/2024	12:35	LB133866
	Chromium	969	1000	97	90 - 110	P	12/10/2024	12:35	LB133866
	Copper	1230	1250	98	90 - 110	P	12/10/2024	12:35	LB133866
	Lead	4760	5000	95	90 - 110	P	12/10/2024	12:35	LB133866
	Nickel	2370	2500	95	90 - 110	P	12/10/2024	12:35	LB133866
	Silver	1210	1250	97	90 - 110	P	12/10/2024	12:35	LB133866
	Zinc	2480	2500	99	90 - 110	P	12/10/2024	12:35	LB133866
CCV03	Cadmium	2410	2500	96	90 - 110	P	12/10/2024	13:26	LB133866
	Chromium	996	1000	100	90 - 110	P	12/10/2024	13:26	LB133866
	Copper	1250	1250	100	90 - 110	P	12/10/2024	13:26	LB133866
	Lead	4850	5000	97	90 - 110	P	12/10/2024	13:26	LB133866
	Nickel	2420	2500	97	90 - 110	P	12/10/2024	13:26	LB133866
	Silver	1240	1250	99	90 - 110	P	12/10/2024	13:26	LB133866
	Zinc	2520	2500	101	90 - 110	P	12/10/2024	13:26	LB133866
CCV04	Cadmium	2410	2500	96	90 - 110	P	12/10/2024	14:19	LB133866
	Chromium	991	1000	99	90 - 110	P	12/10/2024	14:19	LB133866
	Copper	1250	1250	100	90 - 110	P	12/10/2024	14:19	LB133866
	Lead	4850	5000	97	90 - 110	P	12/10/2024	14:19	LB133866
	Nickel	2420	2500	97	90 - 110	P	12/10/2024	14:19	LB133866
	Silver	1230	1250	99	90 - 110	P	12/10/2024	14:19	LB133866
	Zinc	2510	2500	100	90 - 110	P	12/10/2024	14:19	LB133866



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: VERINA CONSULTING GROUP, LLC **SDG No.:** P5141
Contract: VERI01 **Lab Code:** CHEM **Case No.:** P5141 **SAS No.:** P5141
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Cadmium	5.80	6.0	97	40 - 160	P	12/10/2024	11:24	LB133866
	Chromium	9.86	10.0	99	40 - 160	P	12/10/2024	11:24	LB133866
	Copper	22.5	20.0	113	40 - 160	P	12/10/2024	11:24	LB133866
	Lead	11.2	12.0	94	40 - 160	P	12/10/2024	11:24	LB133866
	Nickel	39.3	40.0	98	40 - 160	P	12/10/2024	11:24	LB133866
	Silver	10.7	10.0	107	40 - 160	P	12/10/2024	11:24	LB133866
	Zinc	43.8	40.0	110	40 - 160	P	12/10/2024	11:24	LB133866

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: VERINA CONSULTING GROUP, LLC **SDG No.:** P5141
Contract: VERI01 **Lab Code:** CHEM **Case No.:** P5141 **SAS No.:** P5141
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Cadmium	3.45	1.0	345	-5	7	12/10/2024	11:36	LB133866
	Chromium	56.5	52.0	109	42	62	12/10/2024	11:36	LB133866
	Copper	5.99	2.0	300	-18	22	12/10/2024	11:36	LB133866
	Lead	10.4			-12	12	12/10/2024	11:36	LB133866
	Nickel	31.3	2.0	1565	-38	42	12/10/2024	11:36	LB133866
	Silver	-2.00			-10	10	12/10/2024	11:36	LB133866
	Zinc	-6.01			-40	40	12/10/2024	11:36	LB133866
ICSAB01	Cadmium	952	972	98	826	1120	12/10/2024	11:40	LB133866
	Chromium	539	542	99	460	624	12/10/2024	11:40	LB133866
	Copper	470	511	92	434	588	12/10/2024	11:40	LB133866
	Lead	59.2	49.0	121	37	61	12/10/2024	11:40	LB133866
	Nickel	974	954	102	810	1100	12/10/2024	11:40	LB133866
	Silver	190	201	94	170	232	12/10/2024	11:40	LB133866
	Zinc	911	952	96	809	1095	12/10/2024	11:40	LB133866



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: VERINA CONSULTING GROUP, LLC	level: low	sdg no.: P5141
contract: VERI01	lab code: CHEM	case no.: P5141 sas no.: P5141
matrix: Water	sample id: P5093-02	client id: LL-001-FB-12-4-24MS
Percent Solids for Sample: NA	Spiked ID: P5093-02MS	Percent Solids for Spike Sample: NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cadmium	ug/L	75 - 125	78.8		3.00	U	100	79		P
Chromium	ug/L	75 - 125	180		5.00	U	200	90		P
Copper	ug/L	75 - 125	134		10.0	U	150	89		P
Lead	ug/L	75 - 125	392		6.00	U	500	78		P
Nickel	ug/L	75 - 125	207		20.0	U	250	83		P
Silver	ug/L	75 - 125	31.6		5.00	U	37.5	84		P
Zinc	ug/L	75 - 125	91.4		20.0	U	100	91		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>VERINA CONSULTING GROUP, LLC</u>	level:	<u>low</u>	sdg no.:	<u>P5141</u>
contract:	<u>VERI01</u>	lab code:	<u>CHEM</u>	case no.:	<u>P5141</u>
matrix:	<u>Water</u>	sample id:	<u>P5093-02</u>	client id:	<u>LL-001-FB-12-4-24MSD</u>
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>P5093-02MSD</u>	Percent Solids for Spike Sample:	<u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cadmium	ug/L	75 - 125	78.4		3.00	U	100	78		P
Chromium	ug/L	75 - 125	180		5.00	U	200	90		P
Copper	ug/L	75 - 125	133		10.0	U	150	89		P
Lead	ug/L	75 - 125	391		6.00	U	500	78		P
Nickel	ug/L	75 - 125	205		20.0	U	250	82		P
Silver	ug/L	75 - 125	31.5		5.00	U	37.5	84		P
Zinc	ug/L	75 - 125	90.3		20.0	U	100	90		P



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals
- 5b -

Client:

VERINA CONSULTING GROUP, LLC

SDG No.:

P5141

Contract:

VERI01

Lab Code:

CHEM

Case No.:

P5141

SAS No.:

P5141

Matrix:

Level:

LOW

Client ID:

Sample ID:

Spiked ID:

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M

- A
- B
- C
- D
- E
- F
- G
- H
- I
- J

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: VERINA CONSULTING GROUP, LLC **Level:** LOW **SDG No.:** P5141

Contract: VERI01 **Lab Code:** CHEM **Case No.:** P5141 **SAS No.:** P5141

Matrix: Water **Sample ID:** P5093-02 **Client ID:** LL-001-FB-12-4-24DUP

Percent Solids for Sample: NA **Duplicate ID** P5093-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cadmium	ug/L	20	3.00	U	3.00	U			P
Chromium	ug/L	20	5.00	U	5.00	U			P
Copper	ug/L	20	10.0	U	10.0	U			P
Lead	ug/L	20	6.00	U	6.00	U			P
Nickel	ug/L	20	20.0	U	20.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Zinc	ug/L	20	20.0	U	20.0	U			P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: VERINA CONSULTING GROUP, LLC **Level:** LOW **SDG No.:** P5141

Contract: VERI01 **Lab Code:** CHEM **Case No.:** P5141 **SAS No.:** P5141

Matrix: Water **Sample ID:** P5093-02MS **Client ID:** LL-001-FB-12-4-24MSD

Percent Solids for Sample: NA **Duplicate ID** P5093-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cadmium	ug/L	20	78.8		78.4		1		P
Chromium	ug/L	20	180		180		0		P
Copper	ug/L	20	134		133		1		P
Lead	ug/L	20	392		391		0		P
Nickel	ug/L	20	207		205		1		P
Silver	ug/L	20	31.6		31.5		0		P
Zinc	ug/L	20	91.4		90.3		1		P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: VERINA CONSULTING GROUP, LLC

SDG No.: P5141

Contract: VERI01

Lab Code: CHEM

Case No.: P5141

SAS No.: P5141

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165464BS							
Cadmium	ug/L	100	95.5		96	80 - 120	P
Chromium	ug/L	200	205		102	80 - 120	P
Copper	ug/L	150	156		104	80 - 120	P
Lead	ug/L	500	480		96	80 - 120	P
Nickel	ug/L	250	245		98	80 - 120	P
Silver	ug/L	37.5	37.7		100	80 - 120	P
Zinc	ug/L	100	106		106	80 - 120	P

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

LL-001-FB-12-4-24L

Lab Name: Chemtech Consulting Group

Contract: VERI01

Lab Code: CHEM **Lb No.:** lb133866 **Lab Sample ID :** P5093-02L **SDG No.:** P5141

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ- ence	Q	M
		C		C			
Cadmium	3.00	U	15.0	U			P
Chromium	5.00	U	4.66	J	100.0		P
Copper	10.0	U	50.0	U			P
Lead	6.00	U	30.0	U			P
Nickel	20.0	U	100	U			P
Silver	5.00	U	25.0	U			P
Zinc	20.0	U	100	U			P

metals
- 14 -
ANALYSIS RUN LOG

Client: VERINA CONSULTING GROUP, LLC

Contract: VERI01

Lab code: CHEM

Case no.: P5141

Sas no.: P5141

Sdg no.: P5141

Instrument id number: _____

Method: _____

Run number: LB133866

Start date: 12/10/2024

End date: 12/10/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1038	Ag,Cd,Cr,Cu,Ni,Pb,Zn
S1	S1	1	1043	Ag,Cd,Cr,Cu,Ni,Pb,Zn
S2	S2	1	1047	Ag,Cd,Cr,Cu,Ni,Pb,Zn
S3	S3	1	1051	Ag,Cd,Cr,Cu,Ni,Pb,Zn
S4	S4	1	1056	Ag,Cd,Cr,Cu,Ni,Pb,Zn
S5	S5	1	1100	Ag,Cd,Cr,Cu,Ni,Pb,Zn
ICV01	ICV01	1	1104	Ag,Cd,Cr,Cu,Ni,Pb,Zn
LLICV01	LLICV01	1	1108	Ag,Cd,Cr,Cu,Ni,Pb,Zn
ICB01	ICB01	1	1120	Ag,Cd,Cr,Cu,Ni,Pb,Zn
CRI01	CRI01	1	1124	Ag,Cd,Cr,Cu,Ni,Pb,Zn
ICSA01	ICSA01	1	1136	Ag,Cd,Cr,Cu,Ni,Pb,Zn
ICSAB01	ICSAB01	1	1140	Ag,Cd,Cr,Cu,Ni,Pb,Zn
CCV01	CCV01	1	1144	Ag,Cd,Cr,Cu,Ni,Pb,Zn
CCB01	CCB01	1	1148	Ag,Cd,Cr,Cu,Ni,Pb,Zn
PB165464BL	PB165464BL	1	1201	Ag,Cd,Cr,Cu,Ni,Pb,Zn
PB165464BS	PB165464BS	1	1206	Ag,Cd,Cr,Cu,Ni,Pb,Zn
P5093-02DUP	LL-001-FB-12-4-24DUP	1	1227	Ag,Cd,Cr,Cu,Ni,Pb,Zn
P5093-02L	LL-001-FB-12-4-24L	5	1231	Ag,Cd,Cr,Cu,Ni,Pb,Zn
CCV02	CCV02	1	1235	Ag,Cd,Cr,Cu,Ni,Pb,Zn
CCB02	CCB02	1	1239	Ag,Cd,Cr,Cu,Ni,Pb,Zn
P5093-02MS	LL-001-FB-12-4-24MS	1	1244	Ag,Cd,Cr,Cu,Ni,Pb,Zn
P5093-02MSD	LL-001-FB-12-4-24MSD	1	1248	Ag,Cd,Cr,Cu,Ni,Pb,Zn
P5141-01	WATER TREATMENT DISCHA	1	1257	Ag,Cd,Cr,Cu,Ni,Pb,Zn
CCV03	CCV03	1	1326	Ag,Cd,Cr,Cu,Ni,Pb,Zn
CCB03	CCB03	1	1330	Ag,Cd,Cr,Cu,Ni,Pb,Zn
CCV04	CCV04	1	1419	Ag,Cd,Cr,Cu,Ni,Pb,Zn
CCB04	CCB04	1	1424	Ag,Cd,Cr,Cu,Ni,Pb,Zn



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: VERINA CONSULTING GROUP, LLC

SDG No.: P5141

Contract: VERI01

Lab Code: CHEM

Case No.: P5141

SAS No.: P5141

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: VERINA CONSULTING GROUP, LLC

SDG No.: P5141

Contract: VERI01

Lab Code: CHEM

Case No.: P5141

SAS No.: P5141

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		As	Ba	Be	Cd	Co
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: VERINA CONSULTING GROUP, LLC

SDG No.: P5141

Contract: VERI01

Lab Code: CHEM

Case No.: P5141

SAS No.: P5141

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: VERINA CONSULTING GROUP, LLC

SDG No.: P5141

Contract: VERI01

Lab Code: CHEM

Case No.: P5141

SAS No.: P5141

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: VERINA CONSULTING GROUP, LLC

SDG No.: P5141

Contract: VERI01

Lab Code: CHEM

Case No.: P5141

SAS No.: P5141

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Sn	Ti	Tl	V	Zn
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000



LAB CHRONICLE

OrderID:	P5141	OrderDate:	12/5/2024 12:27:00 PM
Client:	VERINA CONSULTING GROUP, LLC	Project:	Rotor Clip - PO# 5183.0001
Contact:	Michael Valenzi	Location:	M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5141-01	WATER TREATMENT DISCHARGE	Water	Metals Group5	6010D	12/05/24	12/09/24	12/10/24	12/05/24



METAL PREPARATION & ANALYICAL SUMMARY

Metals

- 13 -

SAMPLE PREPARATION SUMMARY

Client: VERINA CONSULTING GROUP, LLC

SDG No.: P5141

Contract: VERI01

Lab Code: CHEM

Method: _____

Case No.: P5141 **SAS No.:** P5141

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB165464							
P5093-02DUP	LL-001-FB-12-4-24DUP	DUP	WATER	12/09/2024	50.0	25.0	
P5093-02MS	LL-001-FB-12-4-24MS	MS	WATER	12/09/2024	50.0	25.0	
P5093-02MSD	LL-001-FB-12-4-24MSD	MSD	WATER	12/09/2024	50.0	25.0	
P5141-01	WATER TREATMENT DISCHARGE	SAM	WATER	12/09/2024	50.0	25.0	
PB165464BL	PB165464BL	MB	WATER	12/09/2024	50.0	25.0	
PB165464BS	PB165464BS	LCS	WATER	12/09/2024	50.0	25.0	

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB133866

Review By	mohan	Review On	12/13/2024 3:24:42 AM
Supervise By	jaswal	Supervise On	12/13/2024 3:25:04 AM
STD. NAME	STD REF.#		
ICAL Standard	MP83552,MP83553,MP83554,MP83555,MP83556,MP83558		
ICV Standard	MP83559		
CCV Standard	MP83562		
ICSA Standard	MP83560,MP83561		
CRI Standard	MP83558		
LCS Standard			
Chk Standard	MP83565,MP83566		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/10/24 10:38		Kareem	OK
2	S1	S1	CAL2	12/10/24 10:43		Kareem	OK
3	S2	S2	CAL3	12/10/24 10:47		Kareem	OK
4	S3	S3	CAL4	12/10/24 10:51		Kareem	OK
5	S4	S4	CAL5	12/10/24 10:56		Kareem	OK
6	S5	S5	CAL6	12/10/24 11:00		Kareem	OK
7	ICV01	ICV01	ICV	12/10/24 11:04		Kareem	OK
8	LLICV01	LLICV01	LLICV	12/10/24 11:08		Kareem	OK
9	ICB01	ICB01	ICB	12/10/24 11:20		Kareem	OK
10	CRI01	CRI01	CRDL	12/10/24 11:24		Kareem	OK
11	ICSA01	ICSA01	ICSA	12/10/24 11:36		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	12/10/24 11:40		Kareem	OK
13	CCV01	CCV01	CCV	12/10/24 11:44		Kareem	OK
14	CCB01	CCB01	CCB	12/10/24 11:48		Kareem	OK
15	PB165463BL	PB165463BL	MB	12/10/24 11:53		Kareem	OK
16	PB165463BS	PB165463BS	LCS	12/10/24 11:57	0.1ml of m6001 and m6010 were added to 10ml of the sample	Kareem	OK
17	PB165464BL	PB165464BL	MB	12/10/24 12:01		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB133866

Review By	mohan	Review On	12/13/2024 3:24:42 AM
Supervise By	jaswal	Supervise On	12/13/2024 3:25:04 AM

STD. NAME	STD REF.#
ICAL Standard	MP83552,MP83553,MP83554,MP83555,MP83556,MP83558
ICV Standard	MP83559
CCV Standard	MP83562
ICSA Standard	MP83560,MP83561
CRI Standard	MP83558
LCS Standard	
Chk Standard	MP83565,MP83566

18	PB165464BS	PB165464BS	LCS	12/10/24 12:06	0.1ml of m6001 and m6010 were added to 10ml of the sample	Kareem	OK
19	P5145-01	286085	SAM	12/10/24 12:10		Kareem	OK
20	P5074-02	COMP	SAM	12/10/24 12:14		Kareem	OK
21	P5093-01	LL-001	SAM	12/10/24 12:18		Kareem	OK
22	P5093-02	LL-001-FB-12-4-24	SAM	12/10/24 12:22		Kareem	OK
23	P5093-02DUP	LL-001-FB-12-4-24DUP	DUP	12/10/24 12:27		Kareem	OK
24	P5093-02L	LL-001-FB-12-4-24L	SD	12/10/24 12:31		Kareem	OK
25	CCV02	CCV02	CCV	12/10/24 12:35		Kareem	OK
26	CCB02	CCB02	CCB	12/10/24 12:39		Kareem	OK
27	P5093-02MS	LL-001-FB-12-4-24MS	MS	12/10/24 12:44	0.1ml of m6001 and m6010 were added to 10ml of the sample	Kareem	OK
28	P5093-02MSD	LL-001-FB-12-4-24MSD	MSD	12/10/24 12:48	0.1ml of m6001 and m6010 were added to 10ml of the sample	Kareem	OK
29	P5093-02A	LL-001-FB-12-4-24A	PS	12/10/24 12:53	0.1ml of m6001 and m6010 were added to 10ml of the sample	Kareem	OK
30	P5141-01	WATER TREATMENT	SAM	12/10/24 12:57		Kareem	OK
31	P5174-01	ROLL-OFF-COMP	SAM	12/10/24 13:01		Kareem	OK
32	P5175-01	OK-01-12062024	SAM	12/10/24 13:05		Kareem	OK
33	P5176-01	EO-02-12062024	SAM	12/10/24 13:09		Kareem	OK
34	P5176-03	EO-03-12062024	SAM	12/10/24 13:13		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB133866

Review By	mohan	Review On	12/13/2024 3:24:42 AM
Supervise By	jaswal	Supervise On	12/13/2024 3:25:04 AM
STD. NAME	STD REF.#		
ICAL Standard	MP83552,MP83553,MP83554,MP83555,MP83556,MP83558		
ICV Standard	MP83559		
CCV Standard	MP83562		
ICSA Standard	MP83560,MP83561		
CRI Standard	MP83558		
LCS Standard			
Chk Standard	MP83565,MP83566		

35	P5196-01	MH-761	SAM	12/10/24 13:18		Kareem	OK
36	P5196-01DUP	MH-761DUP	DUP	12/10/24 13:22		Kareem	OK
37	CCV03	CCV03	CCV	12/10/24 13:26		Kareem	OK
38	CCB03	CCB03	CCB	12/10/24 13:30		Kareem	OK
39	P5196-01L	MH-761L	SD	12/10/24 13:34		Kareem	OK
40	P5196-01MS	MH-761MS	MS	12/10/24 13:39	0.1ml of m6001 and m6010 were added to 10ml of the sample	Kareem	OK
41	P5196-01MSD	MH-761MSD	MSD	12/10/24 13:43	0.1ml of m6001 and m6010 were added to 10ml of the sample	Kareem	OK
42	P5196-01A	MH-761A	PS	12/10/24 13:47	0.1ml of m6001 and m6010 were added to 10ml of the sample	Kareem	OK
43	LR1	LR1	HIGH STD	12/10/24 13:52		Kareem	OK
44	LR2	LR2	HIGH STD	12/10/24 13:57		Kareem	OK
45	CCV04	CCV04	CCV	12/10/24 14:19		Kareem	OK
46	CCB04	CCB04	CCB	12/10/24 14:24		Kareem	OK

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pipette ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 12/09/2024 Time : 09:10 Temp : 96 °C

End Digest Date: 12/09/2024 Time : 12:20 Temp : 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: 

Supervisor Signature: 

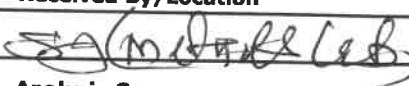
Temp : 1. 96°C 2. N/A

Standardized Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6000
LFS-2	0.25	M6009
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6126
1:1 HCL	5.00	MP83499
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#1 CELL #50 Temp: 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/09/24 12:50	 met 10 digestion	
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P5074-02	COMP	N/A	50	25	Colorless	Colorless	Clear	Clear	N/A	1
P5093-01	LL-001	N/A	50	25	Colorless	Colorless	Clear	Clear	N/A	2
P5093-02	LL-001-FB-12-4-24	N/A	50	25	Colorless	Colorless	Clear	Clear	N/A	3
P5093-02MS	LL-001-FB-12-4-24MS	N/A	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	5
P5093-02MSD	LL-001-FB-12-4-24MSD	N/A	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	6
P5093-02DUP	LL-001-FB-12-4-24DUP	N/A	50	25	Colorless	Colorless	Clear	Clear	N/A	4
P5141-01	WATER TREATMENT DISCHARGE	N/A	50	25	Colorless	Colorless	Clear	Clear	N/A	7
P5145-01	286085	N/A	50	25	Colorless	Colorless	Clear	Clear	N/A	8
PB165464BL	PBW464	N/A	50	25	Colorless	Colorless	Clear	Clear	N/A	9
PB165464BS	LCS464	N/A	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	10