

LAB CHRONICLE

OrderID:	Q3032	OrderDate:	9/5/2025 12:41:17 PM
Client:	Zuccaro Inc.	Project:	3 Coal Ave., Morristown, NJ
Contact:	Sal Zuccaro	Location:	D31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3032-01	SOIL-PILE-1	SOIL	Mercury	7471B	09/05/25	09/08/25	09/08/25	09/05/25
			Metals ICP-TAL	6010D		09/08/25	09/08/25	
Q3032-02	SOIL-PILE-1	TCLP	TCLP ICP Metals	6010D	09/05/25	09/09/25	09/09/25	09/05/25
			TCLP Mercury	7470A		09/09/25	09/10/25	
Q3032-04	SOIL-PILE-2	SOIL	Mercury	7471B	09/05/25	09/08/25	09/08/25	09/05/25
			Metals ICP-TAL	6010D		09/08/25	09/08/25	
Q3032-05	SOIL-PILE-2	TCLP	TCLP ICP Metals	6010D	09/05/25	09/09/25	09/09/25	09/05/25
			TCLP Mercury	7470A		09/09/25	09/10/25	



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Hit Summary Sheet
SW-846

SDG No.: Q3032

Order ID: Q3032

Client: Zuccaro Inc.

Project ID: 3 Coal Ave., Morristown, NJ

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : Q3032-02	SOIL-PILE-1 SOIL-PILE-1	TCLP	Barium	547		72.8	500	ug/L
Client ID : Q3032-05	SOIL-PILE-2 SOIL-PILE-2	TCLP	Barium	818		72.8	500	ug/L



SAMPLE DATA

Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	09/05/25
Project:	3 Coal Ave., Morristown, NJ	Date Received:	09/05/25
Client Sample ID:	SOIL-PILE-1	SDG No.:	Q3032
Lab Sample ID:	Q3032-02	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	25.6	U	1	25.6	100	ug/L	09/09/25 12:30	09/09/25 14:32	6010D	SW3050
7440-39-3	Barium	547	*	1	72.8	500	ug/L	09/09/25 12:30	09/09/25 14:32	6010D	SW3050
7440-43-9	Cadmium	2.50	U	1	2.50	30.0	ug/L	09/09/25 12:30	09/09/25 14:32	6010D	SW3050
7440-47-3	Chromium	10.6	U	1	10.6	50.0	ug/L	09/09/25 12:30	09/09/25 14:32	6010D	SW3050
7439-92-1	Lead	11.5	U	1	11.5	60.0	ug/L	09/09/25 12:30	09/09/25 14:32	6010D	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	09/09/25 10:15	09/10/25 10:51	7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	09/09/25 12:30	09/09/25 14:32	6010D	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	09/09/25 12:30	09/09/25 14:32	6010D	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	TCLP-FULL			

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

Report of Analysis

Client:	Zuccaro Inc.	Date Collected:	09/05/25
Project:	3 Coal Ave., Morristown, NJ	Date Received:	09/05/25
Client Sample ID:	SOIL-PILE-2	SDG No.:	Q3032
Lab Sample ID:	Q3032-05	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	25.6	U	1	25.6	100	ug/L	09/09/25 12:30	09/09/25 14:36	6010D	SW3050
7440-39-3	Barium	818	*	1	72.8	500	ug/L	09/09/25 12:30	09/09/25 14:36	6010D	SW3050
7440-43-9	Cadmium	2.50	U	1	2.50	30.0	ug/L	09/09/25 12:30	09/09/25 14:36	6010D	SW3050
7440-47-3	Chromium	10.6	U	1	10.6	50.0	ug/L	09/09/25 12:30	09/09/25 14:36	6010D	SW3050
7439-92-1	Lead	11.5	U	1	11.5	60.0	ug/L	09/09/25 12:30	09/09/25 14:36	6010D	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	09/09/25 10:15	09/10/25 10:53	7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	09/09/25 12:30	09/09/25 14:36	6010D	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	09/09/25 12:30	09/09/25 14:36	6010D	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	TCLP-FULL			

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



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV24	Mercury	4.31	4.0	108	90 - 110	CV	09/10/2025	09:48	LB137126

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV70	Mercury	5.13	5.0	103	90 - 110	CV	09/10/2025	10:03	LB137126
CCV71	Mercury	4.80	5.0	96	90 - 110	CV	09/10/2025	11:05	LB137126
CCV72	Mercury	4.64	5.0	93	90 - 110	CV	09/10/2025	12:14	LB137126
CCV73	Mercury	4.73	5.0	94	90 - 110	CV	09/10/2025	13:20	LB137126

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

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	Arsenic	4030	4000	101	90 - 110	P	09/09/2025	12:14	LB137122
	Barium	7780	8000	97	90 - 110	P	09/09/2025	12:14	LB137122
	Cadmium	1990	2000	100	90 - 110	P	09/09/2025	12:14	LB137122
	Chromium	813	800	102	90 - 110	P	09/09/2025	12:14	LB137122
	Lead	3910	4000	98	90 - 110	P	09/09/2025	12:14	LB137122
	Selenium	4060	4000	102	90 - 110	P	09/09/2025	12:14	LB137122
	Silver	1020	1000	102	90 - 110	P	09/09/2025	12:14	LB137122

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

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	Arsenic	17.8	20.0	89	80 - 120	P	09/09/2025	12:26	LB137122
	Barium	90.1	100	90	80 - 120	P	09/09/2025	12:26	LB137122
	Cadmium	5.68	6.0	95	80 - 120	P	09/09/2025	12:26	LB137122
	Chromium	9.24	10.0	92	80 - 120	P	09/09/2025	12:26	LB137122
	Lead	11.1	12.0	92	80 - 120	P	09/09/2025	12:26	LB137122
	Selenium	19.7	20.0	98	80 - 120	P	09/09/2025	12:26	LB137122
	Silver	9.91	10.0	99	80 - 120	P	09/09/2025	12:26	LB137122

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

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	Arsenic	4880	5000	98	90 - 110	P	09/09/2025	12:59	LB137122
	Barium	9860	10000	99	90 - 110	P	09/09/2025	12:59	LB137122
	Cadmium	2440	2500	98	90 - 110	P	09/09/2025	12:59	LB137122
	Chromium	1000	1000	100	90 - 110	P	09/09/2025	12:59	LB137122
	Lead	4900	5000	98	90 - 110	P	09/09/2025	12:59	LB137122
	Selenium	4890	5000	98	90 - 110	P	09/09/2025	12:59	LB137122
	Silver	1250	1250	100	90 - 110	P	09/09/2025	12:59	LB137122
CCV02	Arsenic	4700	5000	94	90 - 110	P	09/09/2025	14:14	LB137122
	Barium	9680	10000	97	90 - 110	P	09/09/2025	14:14	LB137122
	Cadmium	2330	2500	93	90 - 110	P	09/09/2025	14:14	LB137122
	Chromium	954	1000	95	90 - 110	P	09/09/2025	14:14	LB137122
	Lead	4650	5000	93	90 - 110	P	09/09/2025	14:14	LB137122
	Selenium	4700	5000	94	90 - 110	P	09/09/2025	14:14	LB137122
	Silver	1190	1250	96	90 - 110	P	09/09/2025	14:14	LB137122
CCV03	Arsenic	4750	5000	95	90 - 110	P	09/09/2025	15:11	LB137122
	Barium	9520	10000	95	90 - 110	P	09/09/2025	15:11	LB137122
	Cadmium	2330	2500	93	90 - 110	P	09/09/2025	15:11	LB137122
	Chromium	940	1000	94	90 - 110	P	09/09/2025	15:11	LB137122
	Lead	4630	5000	93	90 - 110	P	09/09/2025	15:11	LB137122
	Selenium	4780	5000	96	90 - 110	P	09/09/2025	15:11	LB137122
	Silver	1190	1250	95	90 - 110	P	09/09/2025	15:11	LB137122
CCV04	Arsenic	4750	5000	95	90 - 110	P	09/09/2025	16:24	LB137122
	Barium	9410	10000	94	90 - 110	P	09/09/2025	16:24	LB137122
	Cadmium	2350	2500	94	90 - 110	P	09/09/2025	16:24	LB137122
	Chromium	941	1000	94	90 - 110	P	09/09/2025	16:24	LB137122
	Lead	4670	5000	93	90 - 110	P	09/09/2025	16:24	LB137122
	Selenium	4770	5000	95	90 - 110	P	09/09/2025	16:24	LB137122
	Silver	1180	1250	94	90 - 110	P	09/09/2025	16:24	LB137122
CCV05	Arsenic	4890	5000	98	90 - 110	P	09/09/2025	17:13	LB137122
	Barium	9660	10000	97	90 - 110	P	09/09/2025	17:13	LB137122
	Cadmium	2400	2500	96	90 - 110	P	09/09/2025	17:13	LB137122
	Chromium	968	1000	97	90 - 110	P	09/09/2025	17:13	LB137122
	Lead	4780	5000	96	90 - 110	P	09/09/2025	17:13	LB137122
	Selenium	4910	5000	98	90 - 110	P	09/09/2025	17:13	LB137122

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

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
CCV05	Silver	1210	1250	97	90 - 110	P	09/09/2025	17:13	LB137122
CCV06	Arsenic	4850	5000	97	90 - 110	P	09/09/2025	17:46	LB137122
	Barium	9720	10000	97	90 - 110	P	09/09/2025	17:46	LB137122
	Cadmium	2410	2500	96	90 - 110	P	09/09/2025	17:46	LB137122
	Chromium	977	1000	98	90 - 110	P	09/09/2025	17:46	LB137122
	Lead	4800	5000	96	90 - 110	P	09/09/2025	17:46	LB137122
	Selenium	4860	5000	97	90 - 110	P	09/09/2025	17:46	LB137122
	Silver	1220	1250	98	90 - 110	P	09/09/2025	17:46	LB137122



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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

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	Arsenic	16.4	20.0	82	65 - 135	P	09/09/2025	12:36	LB137122
	Barium	92.2	100	92	65 - 135	P	09/09/2025	12:36	LB137122
	Cadmium	5.53	6.0	92	65 - 135	P	09/09/2025	12:36	LB137122
	Chromium	9.50	10.0	95	65 - 135	P	09/09/2025	12:36	LB137122
	Lead	9.44	12.0	79	65 - 135	P	09/09/2025	12:36	LB137122
	Selenium	19.9	20.0	100	65 - 135	P	09/09/2025	12:36	LB137122
	Silver	9.64	10.0	96	65 - 135	P	09/09/2025	12:36	LB137122
CRA	Mercury	0.21	0.2	107	70 - 130	CV	09/10/2025	10:24	LB137126



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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB24	Mercury	0.076	+/-0.2	U	0.20	CV	09/10/2025	09:56	LB137126

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB70	Mercury	0.076	+/-0.2	U	0.20	CV	09/10/2025	10:09	LB137126
CCB71	Mercury	0.076	+/-0.2	U	0.20	CV	09/10/2025	11:07	LB137126
CCB72	Mercury	0.076	+/-0.2	U	0.20	CV	09/10/2025	12:31	LB137126
CCB73	Mercury	0.076	+/-0.2	U	0.20	CV	09/10/2025	13:26	LB137126

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	5.12	+/-10	U	20.0	P	09/09/2025	12:31	LB137122
	Barium	14.6	+/-50	U	100	P	09/09/2025	12:31	LB137122
	Cadmium	0.50	+/-3	U	6.00	P	09/09/2025	12:31	LB137122
	Chromium	2.12	+/-5	U	10.0	P	09/09/2025	12:31	LB137122
	Lead	2.30	+/-6	U	12.0	P	09/09/2025	12:31	LB137122
	Selenium	9.64	+/-10	U	20.0	P	09/09/2025	12:31	LB137122
	Silver	1.62	+/-5	U	10.0	P	09/09/2025	12:31	LB137122

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	5.12	+/-10	U	20.0	P	09/09/2025	13:26	LB137122
	Barium	14.6	+/-50	U	100	P	09/09/2025	13:26	LB137122
	Cadmium	0.50	+/-3	U	6.00	P	09/09/2025	13:26	LB137122
	Chromium	2.12	+/-5	U	10.0	P	09/09/2025	13:26	LB137122
	Lead	2.30	+/-6	U	12.0	P	09/09/2025	13:26	LB137122
	Selenium	9.64	+/-10	U	20.0	P	09/09/2025	13:26	LB137122
	Silver	1.62	+/-5	U	10.0	P	09/09/2025	13:26	LB137122
CCB02	Arsenic	5.12	+/-10	U	20.0	P	09/09/2025	14:19	LB137122
	Barium	14.6	+/-50	U	100	P	09/09/2025	14:19	LB137122
	Cadmium	0.50	+/-3	U	6.00	P	09/09/2025	14:19	LB137122
	Chromium	2.12	+/-5	U	10.0	P	09/09/2025	14:19	LB137122
	Lead	2.30	+/-6	U	12.0	P	09/09/2025	14:19	LB137122
	Selenium	9.64	+/-10	U	20.0	P	09/09/2025	14:19	LB137122
	Silver	1.62	+/-5	U	10.0	P	09/09/2025	14:19	LB137122
CCB03	Arsenic	5.12	+/-10	U	20.0	P	09/09/2025	15:25	LB137122
	Barium	14.6	+/-50	U	100	P	09/09/2025	15:25	LB137122
	Cadmium	0.50	+/-3	U	6.00	P	09/09/2025	15:25	LB137122
	Chromium	2.12	+/-5	U	10.0	P	09/09/2025	15:25	LB137122
	Lead	2.30	+/-6	U	12.0	P	09/09/2025	15:25	LB137122
	Selenium	9.64	+/-10	U	20.0	P	09/09/2025	15:25	LB137122
	Silver	1.62	+/-5	U	10.0	P	09/09/2025	15:25	LB137122
CCB04	Arsenic	5.12	+/-10	U	20.0	P	09/09/2025	16:28	LB137122
	Barium	14.6	+/-50	U	100	P	09/09/2025	16:28	LB137122
	Cadmium	0.50	+/-3	U	6.00	P	09/09/2025	16:28	LB137122
	Chromium	2.12	+/-5	U	10.0	P	09/09/2025	16:28	LB137122
	Lead	2.30	+/-6	U	12.0	P	09/09/2025	16:28	LB137122
	Selenium	9.64	+/-10	U	20.0	P	09/09/2025	16:28	LB137122
	Silver	1.62	+/-5	U	10.0	P	09/09/2025	16:28	LB137122
CCB05	Arsenic	5.12	+/-10	U	20.0	P	09/09/2025	17:17	LB137122
	Barium	14.6	+/-50	U	100	P	09/09/2025	17:17	LB137122
	Cadmium	0.50	+/-3	U	6.00	P	09/09/2025	17:17	LB137122
	Chromium	2.12	+/-5	U	10.0	P	09/09/2025	17:17	LB137122
	Lead	2.30	+/-6	U	12.0	P	09/09/2025	17:17	LB137122
	Selenium	9.64	+/-10	U	20.0	P	09/09/2025	17:17	LB137122
	Silver	1.62	+/-5	U	10.0	P	09/09/2025	17:17	LB137122
CCB06	Arsenic	5.12	+/-10	U	20.0	P	09/09/2025	17:50	LB137122
	Barium	14.6	+/-50	U	100	P	09/09/2025	17:50	LB137122
	Cadmium	0.50	+/-3	U	6.00	P	09/09/2025	17:50	LB137122
	Chromium	2.12	+/-5	U	10.0	P	09/09/2025	17:50	LB137122

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	2.30	+/-6	U	12.0	P	09/09/2025	17:50	LB137122
	Selenium	9.64	+/-10	U	20.0	P	09/09/2025	17:50	LB137122
	Silver	1.62	+/-5	U	10.0	P	09/09/2025	17:50	LB137122

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Zuccaro Inc.

SDG No.: Q3032

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169589TB	WATER			Batch Number:	PB169614		Prep Date:	09/09/2025	
	Mercury	0.76	<2	U	2.00	CV	09/10/2025	13:03	LB137126
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169614BL	WATER			Batch Number:	PB169614		Prep Date:	09/09/2025	
	Mercury	0.076	<0.2	U	0.20	CV	09/10/2025	10:41	LB137126

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Zuccaro Inc.

SDG No.: Q3032

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169589TB		WATER		Batch Number:	PB169617		Prep Date:	09/09/2025	
	Arsenic	25.6	<50	U	100	P	09/09/2025	15:58	LB137122
	Barium	72.8	<250	U	500	P	09/09/2025	15:58	LB137122
	Cadmium	2.50	<15	U	30.0	P	09/09/2025	15:58	LB137122
	Chromium	10.6	<25	U	50.0	P	09/09/2025	15:58	LB137122
	Lead	11.5	<30	U	60.0	P	09/09/2025	15:58	LB137122
	Selenium	48.2	<50	U	100	P	09/09/2025	15:58	LB137122
	Silver	8.10	<25	U	50.0	P	09/09/2025	15:58	LB137122
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169617BL		WATER		Batch Number:	PB169617		Prep Date:	09/09/2025	
	Arsenic	25.6	<50	U	100	P	09/09/2025	16:03	LB137122
	Barium	72.8	<250	U	500	P	09/09/2025	16:03	LB137122
	Cadmium	2.50	<15	U	30.0	P	09/09/2025	16:03	LB137122
	Chromium	10.6	<25	U	50.0	P	09/09/2025	16:03	LB137122
	Lead	11.5	<30	U	60.0	P	09/09/2025	16:03	LB137122
	Selenium	48.2	<50	U	100	P	09/09/2025	16:03	LB137122
	Silver	8.10	<25	U	50.0	P	09/09/2025	16:03	LB137122

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: <u>Zuccaro Inc.</u>	SDG No.: <u>Q3032</u>
Contract: <u>ZUCC01</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P4</u>

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	Arsenic	-0.30			-20	20	09/09/2025	12:42	LB137122
	Barium	-8.71	6.0	145	-94	106	09/09/2025	12:42	LB137122
	Cadmium	-1.23	1.0	123	-5	7	09/09/2025	12:42	LB137122
	Chromium	50.6	52.0	97	42	62	09/09/2025	12:42	LB137122
	Lead	-3.71			-12	12	09/09/2025	12:42	LB137122
	Selenium	4.10			-20	20	09/09/2025	12:42	LB137122
	Silver	0.80			-10	10	09/09/2025	12:42	LB137122
ICSAB01	Arsenic	107	104	103	88.4	120	09/09/2025	12:46	LB137122
	Barium	496	537	92	437	637	09/09/2025	12:46	LB137122
	Cadmium	1010	972	104	826	1120	09/09/2025	12:46	LB137122
	Chromium	606	542	112	460	624	09/09/2025	12:46	LB137122
	Lead	44.4	49.0	91	37	61	09/09/2025	12:46	LB137122
	Selenium	56.1	46.0	122	26	66	09/09/2025	12:46	LB137122
	Silver	221	201	110	170	232	09/09/2025	12:46	LB137122



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>Zuccaro Inc.</u>	level: <u>low</u>	sdg no.: <u>Q3032</u>
contract: <u>ZUCC01</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3051-02</u>	client id: <u>VNJ-223MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3051-02MS</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3750		100	U	4000	94		P
Barium	ug/L	75 - 125	1160		204	J	1000	96		P
Cadmium	ug/L	75 - 125	887		30.0	U	1000	89		P
Chromium	ug/L	75 - 125	1850		50.0	U	2000	92		P
Lead	ug/L	75 - 125	4280		60.0	U	5000	86		P
Mercury	ug/L	75 - 125	45.0		2.00	U	40.0	112		CV
Selenium	ug/L	75 - 125	9480		100	U	10000	95		P
Silver	ug/L	75 - 125	327		50.0	U	380	86		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Zuccaro Inc.</u>	level: <u>low</u>	sdg no.: <u>Q3032</u>
contract: <u>ZUCC01</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3051-02</u>	client id: <u>VNJ-223MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3051-02MSD</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
Arsenic	ug/L	75 - 125	3910		100	U	4000	98		P
Barium	ug/L	75 - 125	1430		204	J	1000	123		P
Cadmium	ug/L	75 - 125	917		30.0	U	1000	92		P
Chromium	ug/L	75 - 125	1910		50.0	U	2000	96		P
Lead	ug/L	75 - 125	4390		60.0	U	5000	88		P
Mercury	ug/L	75 - 125	39.9		2.00	U	40.0	100		CV
Selenium	ug/L	75 - 125	9960		100	U	10000	100		P
Silver	ug/L	75 - 125	336		50.0	U	380	88		P

Metals
- 5b -

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

Matrix: _____

Level: LOW

Client ID: _____

Sample ID: _____ **Spiked ID:** _____

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M
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A
B
C
D
E
F
G
H

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Zuccaro Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3032</u>
Contract:	<u>ZUCC01</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3051-02</u>	Client ID:	<u>VNJ-223DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3051-02DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	100	U	100	U			P
Barium	ug/L	20	204	J	175	J	15		P
Cadmium	ug/L	20	30.0	U	30.0	U			P
Chromium	ug/L	20	50.0	U	50.0	U			P
Lead	ug/L	20	60.0	U	60.0	U			P
Mercury	ug/L	20	2.00	U	2.00	U			CV
Selenium	ug/L	20	100	U	100	U			P
Silver	ug/L	20	50.0	U	50.0	U			P

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Zuccaro Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3032</u>
Contract:	<u>ZUCC01</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3051-02MS</u>	Client ID:	<u>VNJ-223MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3051-02MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	3750		3910		4		P
Barium	ug/L	20	1160		1430		21	*	P
Cadmium	ug/L	20	887		917		3		P
Chromium	ug/L	20	1850		1910		3		P
Lead	ug/L	20	4280		4390		3		P
Mercury	ug/L	20	45.0		39.9		12		CV
Selenium	ug/L	20	9480		9960		5		P
Silver	ug/L	20	327		336		3		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169614BS Mercury	ug/L	4.0	4.48		112	80 - 120	CV

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client:	<u>Zuccaro Inc.</u>	SDG No.:	<u>Q3032</u>
Contract:	<u>ZUCC01</u>	Lab Code:	<u>ACE</u>

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169617BS							
Arsenic	ug/L	4000	3810		95	80 - 120	P
Barium	ug/L	1000	887		89	80 - 120	P
Cadmium	ug/L	1000	932		93	80 - 120	P
Chromium	ug/L	2000	1950		98	80 - 120	P
Lead	ug/L	5000	4690		94	80 - 120	P
Selenium	ug/L	10000	9720		97	80 - 120	P
Silver	ug/L	380	361		95	80 - 120	P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

VNJ-223L

Lab Name: Alliance **Contract:** ZUCC01
Lab Code: ACE **Lb No.:** lb137122 **Lab Sample ID :** Q3051-02L **SDG No.:** Q3032
Matrix (soil/water): Water **Level (low/med):** LOW
Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Arsenic	100	U	500	U			P
Barium	204	J	2500	U	100.0		P
Cadmium	30.0	U	150	U			P
Chromium	50.0	U	250	U			P
Lead	60.0	U	300	U			P
Mercury	2.00	U	10.0	U			CV
Selenium	100	U	500	U			P
Silver	50.0	U	250	U			P



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

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
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

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
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

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
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

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
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

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
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

Method: _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB169614							
PB169589TB	PB169589TB	MB	WATER	09/09/2025	3.0	30.0	
PB169614BL	PB169614BL	MB	WATER	09/09/2025	30.0	30.0	
PB169614BS	PB169614BS	LCS	WATER	09/09/2025	30.0	30.0	
Q3032-02	SOIL-PILE-1	SAM	WATER	09/09/2025	3.0	30.0	
Q3032-05	SOIL-PILE-2	SAM	WATER	09/09/2025	3.0	30.0	
Q3051-02DUP	VNJ-223DUP	DUP	WATER	09/09/2025	3.0	30.0	
Q3051-02MS	VNJ-223MS	MS	WATER	09/09/2025	3.0	30.0	
Q3051-02MSD	VNJ-223MSD	MSD	WATER	09/09/2025	3.0	30.0	

Metals

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SAMPLE PREPARATION SUMMARY

Client: Zuccaro Inc.

SDG No.: Q3032

Contract: ZUCC01

Lab Code: ACE

Method: _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB169617							
PB169589TB	PB169589TB	MB	WATER	09/09/2025	5.0	25.0	
PB169617BL	PB169617BL	MB	WATER	09/09/2025	5.0	25.0	
PB169617BS	PB169617BS	LCS	WATER	09/09/2025	5.0	25.0	
Q3032-02	SOIL-PILE-1	SAM	WATER	09/09/2025	5.0	25.0	
Q3032-05	SOIL-PILE-2	SAM	WATER	09/09/2025	5.0	25.0	
Q3051-02DUP	VNJ-223DUP	DUP	WATER	09/09/2025	5.0	25.0	
Q3051-02MS	VNJ-223MS	MS	WATER	09/09/2025	5.0	25.0	
Q3051-02MSD	VNJ-223MSD	MSD	WATER	09/09/2025	5.0	25.0	

metals
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ANALYSIS RUN LOG

Client: Zuccaro Inc.

Contract: ZUCC01

Lab code: ACE

Sdg no.: Q3032

Instrument id number: _____

Method: _____

Run number: LB137122

Start date: 09/09/2025

End date: 09/09/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1148	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1153	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1157	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1201	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1205	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1209	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1214	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1226	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1231	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1236	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1242	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1246	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1259	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1326	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1414	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1419	Ag,As,Ba,Cd,Cr,Pb,Se
Q3032-02	SOIL-PILE-1	1	1432	Ag,As,Ba,Cd,Cr,Pb,Se
Q3032-05	SOIL-PILE-2	1	1436	Ag,As,Ba,Cd,Cr,Pb,Se
Q3051-02DUP	VNJ-223DUP	1	1503	Ag,As,Ba,Cd,Cr,Pb,Se
Q3051-02L	VNJ-223L	5	1507	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1511	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1525	Ag,As,Ba,Cd,Cr,Pb,Se
Q3051-02MS	VNJ-223MS	1	1529	Ag,As,Ba,Cd,Cr,Pb,Se
Q3051-02MSD	VNJ-223MSD	1	1533	Ag,As,Ba,Cd,Cr,Pb,Se
PB169589TB	PB169589TB	1	1558	Ag,As,Ba,Cd,Cr,Pb,Se
PB169617BL	PB169617BL	1	1603	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1624	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1628	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1713	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1717	Ag,As,Ba,Cd,Cr,Pb,Se
PB169617BS	PB169617BS	1	1721	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1746	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1750	Ag,As,Ba,Cd,Cr,Pb,Se

metals
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ANALYSIS RUN LOG

Client: Zuccaro Inc.

Contract: ZUCC01

Lab code: ACE

Sdg no.: Q3032

Instrument id number: _____

Method: _____

Run number: LB137126

Start date: 09/10/2025

End date: 09/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0923	HG
S0.2	S0.2	1	0928	HG
S2.5	S2.5	1	0930	HG
S5	S5	1	0932	HG
S7.5	S7.5	1	0935	HG
S10	S10	1	0940	HG
ICV24	ICV24	1	0948	HG
ICB24	ICB24	1	0956	HG
CCV70	CCV70	1	1003	HG
CCB70	CCB70	1	1009	HG
CRA	CRA	1	1024	HG
PB169614BL	PB169614BL	1	1041	HG
PB169614BS	PB169614BS	1	1046	HG
Q3032-02	SOIL-PILE-1	1	1051	HG
Q3032-05	SOIL-PILE-2	1	1053	HG
CCV71	CCV71	1	1105	HG
CCB71	CCB71	1	1107	HG
Q3051-02DUP	VNJ-223DUP	1	1109	HG
Q3051-02MS	VNJ-223MS	1	1114	HG
Q3051-02MSD	VNJ-223MSD	1	1120	HG
CCV72	CCV72	1	1214	HG
CCB72	CCB72	1	1231	HG
PB169589TB	PB169589TB	1	1303	HG
Q3051-02L	VNJ-223L	5	1306	HG
CCV73	CCV73	1	1320	HG
CCB73	CCB73	1	1326	HG