

## **DATA PACKAGE**

GENERAL CHEMISTRY  
METALS

**PROJECT NAME : SEMI ANNUAL 2024**

**VARTAN MANUFACTURING CORP.**

**7 West 45 th st.**

**Suite 703**

**New York, NY - 10036**

**Phone No: 212-764-3252**

**ORDER ID : P4347**

**ATTENTION : Herman Demirciyan**



**Laboratory Certification ID # 20012**



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## Cover Page

**Order ID :** P4347

**Project ID :** Semi Annual 2024

**Client :** Vartan Manufacturing Corp.

**Lab Sample Number**

P4347-01  
P4347-02

**Client Sample Number**

EFFLUENT-DAY-1-METALS  
EFF-DAY-1-1-4CN

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : \_\_\_\_\_

Date: 10/24/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

## **CASE NARRATIVE**

**Vartan Manufacturing Corp.**

**Project Name: Semi Annual 2024**

**Project # N/A**

**Chemtech Project # P4347**

**Test Name: Metals ICP-Group1,Mercury**

### **A. Number of Samples and Date of Receipt:**

2 Water samples were received on 10/16/2024.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Cyanide, Mercury, Metals Group1 and Metals ICP-Group1. This data package contains results for Metals ICP-Group1,Mercury.

### **C. Analytical Techniques:**

The analysis and digestion of Metals ICP-Group1 was based on 200.7 and The analysis and digestion of Mercury was based on 245.1.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike analysis met criteria for all samples.

The Matrix Spike Duplicate analysis met criteria for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

### **E. Additional Comments:**

As per special requirement for this project form-1 and Hit Summary are reported in mg/l.

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Signature\_\_\_\_\_



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

## **CASE NARRATIVE**

**Vartan Manufacturing Corp.**

**Project Name: Semi Annual 2024**

**Project # N/A**

**Chemtech Project # P4347**

**Test Name: Cyanide**

### **A. Number of Samples and Date of Receipt:**

2 Water samples were received on 10/16/2024.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Cyanide, Mercury, Metals Group1 and Metals ICP-Group1. This data package contains results for Cyanide.

### **C. Analytical Techniques:**

The analysis of Cyanide was based on method SM4500-CN C,E.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike analysis met criteria for all samples.

The Matrix Spike Duplicate analysis met criteria for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

### **E. Additional Comments:**

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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature\_\_\_\_\_

## DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

<b>J</b>	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
<b>U</b>	Indicates the analyte was analyzed for, but not detected.
<b>ND</b>	Indicates the analyte was analyzed for, but not detected
<b>E</b>	Indicates the reported value is estimated because of the presence of interference
<b>M</b>	Indicates Duplicate injection precision not met.
<b>N</b>	Indicates the spiked sample recovery is not within control limits.
<b>S</b>	Indicates the reported value was determined by the Method of Standard Addition (MSA).
<b>*</b>	Indicates that the duplicate analysis is not within control limits.
<b>+</b>	Indicates the correlation coefficient for the MSA is less than 0.995.
<b>D</b>	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
<b>M</b>	Method qualifiers “P” for ICP instrument “PM” for ICP when Microwave Digestion is used “CV” for Manual Cold Vapor AA “AV” for automated Cold Vapor AA “CA” for MIDI-Distillation Spectrophotometric “AS” for Semi -Automated Spectrophotometric “C” for Manual Spectrophotometric “T” for Titrimetric “NR” for analyte not required to be analyzed
<b>OR</b>	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
<b>Q</b>	Indicates the LCS did not meet the control limits requirements
<b>H</b>	Sample Analysis Out Of Hold Time

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: P4347

Completed

For thorough review, the report must have the following:

#### GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

#### COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

#### CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

#### ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 10/24/2024

### Hit Summary Sheet SW-846

**SDG No.:** P4347

**Order ID:** P4347

**Client:** Vartan Manufacturing Corp.

**Project ID:** Semi Annual 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
<b>Client ID : EFFLUENT-DAY-1-METALS</b>								
P4347-01	EFFLUENT-DAY-1-METALS	Water	Chromium	0.0010	J	0.00052	0.0050	mg/L
P4347-01	EFFLUENT-DAY-1-METALS	Water	Copper	0.12		0.0015	0.010	mg/L
P4347-01	EFFLUENT-DAY-1-METALS	Water	Lead	0.0019	J	0.0016	0.0060	mg/L
P4347-01	EFFLUENT-DAY-1-METALS	Water	Mercury	0.00021		0.000022	0.00020	mg/L
P4347-01	EFFLUENT-DAY-1-METALS	Water	Nickel	0.010	J	0.0013	0.020	mg/L
P4347-01	EFFLUENT-DAY-1-METALS	Water	Silver	0.0026	J	0.00083	0.0050	mg/L
P4347-01	EFFLUENT-DAY-1-METALS	Water	Zinc	0.030		0.0014	0.020	mg/L





# SAMPLE DATA

## Report of Analysis

Client:	Vartan Manufacturing Corp.	Date Collected:	10/15/24
Project:	Semi Annual 2024	Date Received:	10/16/24
Client Sample ID:	EFFLUENT-DAY-1-METALS	SDG No.:	P4347
Lab Sample ID:	P4347-01	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	0.00021	U	1	0.00021	0.0030	mg/L	10/21/24 14:30	10/23/24 21:43	EPA 200.7	
7440-47-3	Chromium	0.0010	J	1	0.00052	0.0050	mg/L	10/21/24 14:30	10/23/24 21:43	EPA 200.7	
7440-50-8	Copper	0.12		1	0.0015	0.010	mg/L	10/21/24 14:30	10/23/24 21:43	EPA 200.7	
7439-92-1	Lead	0.0019	J	1	0.0016	0.0060	mg/L	10/21/24 14:30	10/23/24 21:43	EPA 200.7	
7439-97-6	Mercury	0.00021		1	0.000022	0.00020	mg/L	10/17/24 11:00	10/17/24 15:02	E245.1	
7439-98-7	Molybdenum	0.0051	U	1	0.0051	0.10	mg/L	10/21/24 14:30	10/23/24 21:43	EPA 200.7	
7440-02-0	Nickel	0.010	J	1	0.0013	0.020	mg/L	10/21/24 14:30	10/23/24 21:43	EPA 200.7	
7440-22-4	Silver	0.0026	J	1	0.00083	0.0050	mg/L	10/21/24 14:30	10/23/24 21:43	EPA 200.7	
7440-66-6	Zinc	0.030		1	0.0014	0.020	mg/L	10/21/24 14:30	10/23/24 21:43	EPA 200.7	

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group1			

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

LAB CHRONICLE

OrderID:	P4347	OrderDate:	10/8/2024 10:32:00 AM
Client:	Vartan Manufacturing Corp.	Project:	Semi Annual 2024
Contact:	Herman Demirciyan	Location:	K11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4347-01	EFFLUENT-DAY-1-MET ALS	Water			10/15/24			10/16/24
			Mercury	245.1		10/17/24	10/17/24	
			Metals ICP-Group1	200.7		10/21/24	10/23/24	



# SAMPLE DATA

## Report of Analysis

Client:	Vartan Manufacturing Corp.	Date Collected:	10/16/24 11:50
Project:	Semi Annual 2024	Date Received:	10/16/24
Client Sample ID:	EFF-DAY-1-1-4CN	SDG No.:	P4347
Lab Sample ID:	P4347-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.00093	U	1	0.00093	0.0050	mg/L	10/17/24 10:30	10/17/24 12:37	SM 4500-CN C-16 plus E-16

Comments: \_\_\_\_\_

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  
H = Sample Analysis Out Of Hold Time

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

LAB CHRONICLE

OrderID:	P4347	OrderDate:	10/8/2024 10:32:00 AM
Client:	Vartan Manufacturing Corp.	Project:	Semi Annual 2024
Contact:	Herman Demirciyan	Location:	K11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4347-02	EFF-DAY-1-1-4CN	WATER			10/16/24 11:50			10/16/24
			Cyanide	SM4500-CN C,E		10/17/24	10/17/24 12:37	



# SHIPPING DOCUMENTS

# CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax: (908) 78-8922

www.chemtech.net

Chemtech Project Number:

P4347

COC Number:

## CLIENT INFORMATION

COMPANY: Vartan Manufacturing Corp.

ADDRESS: 7 West 45th Street, Suite 703

CITY New York STATE: NY ZIP: 10036

ATTENTION: Vartan Demirciyan

PHONE: FAX:

## PROJECT INFORMATION

PROJECT NAME: Semi Annual 2024

PROJECT #: LOCATION:

PROJECT MANAGER:

E-MAIL:

PHONE:

FAX:

## BILLING INFORMATION

BILL TO: Vartan Manufacturing Corp.

PO#

ADDRESS: 7 West 45th Street, Suite 703

CITY: New York

STAT NY ZIP: 10036

ATTENTION: Vartan Demirciyan

PHONE:

## DATA TURNAROUND INFORMATION

FAX: 10 DAYS\*  
HARD COPY: 10 DAYS\*  
EDD DAYS\*

\* TO BE APPROVED BY CHEMTECH

STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

## DATA DELIVERABLE INFORMATION

- ☒ RESULTS ONLY (L1) ☐ US EPA CLP (L4)  
☐ RESULTS + QC (L2) ☐ NYS ASP "A" (L2)  
☐ NJ REDUCED (L3) ☐ NYS ASP "B" (L4)  
☐ NJ FULL (L4) ☐ Other \_\_\_\_\_  
☐ EDD Format

## ANALYSIS

metals	Group 1	Cyanide							
1	2	3	4	5	6	7	8	9	

## PRESERVATIVES

## COMMENTS

<-- Specify Preservatives  
A-HCl B-HNO3  
C-H2SO4 D-NaOH  
E-ICE F-Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION	# of Bottles	1	2	3	4	5	6	7	8	9
1.	EFFLUENT-DAY-1-METALS	Water	X		10/15 8:00 AM	X								
2.	EFFLUENT-DAY-1-CN	Water		X	10/15 8:30 AM		X							
3.	EFFLUENT-DAY1-1-2-CN	Water		X	10/15 11:00 AM		X							
4.	EFFLUENT-DAY1-1-3-CN	Water		X	10/15 12:30 PM		X							
5.	EFFLUENT-DAY1-1-4-CN	Water		X	10/15 2:30 PM		X							
6.														
7.														
8.														
9.														
10.														

## SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER

DATE/TIME

RECEIVED BY

1. *[Signature]*

10-15-2024

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant

MeOH extraction requires an additional 4oz. Jar for percent solid

☐ Cooler Temp 2-6°C

☐ Ice in Cooler? *y*

RELINQUISHED BY

DATE/TIME

RECEIVED BY

2. *FedEx*

10-16-24

2. *[Signature]*

RELINQUISHED BY

DATE/TIME

RECEIVED FOR LAB BY

3.

3.

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight

CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete

☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY



## 7.1

Date: 10-16-24

Client Project Name: Semi Annual 2024

**Sample Custodian:**

QA Control # A30-1240

**Laboratory Certification**

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488