NPDES Pretreatment Compliance Sampling Inspection Report

Corning Incorporated
Integrated Die Manufacturing
905 Addison Road
Painted Post, New York

NYR00E417

September 26-27, 2023

Report Prepared by:

ROBERT MORRELL
Digitally signed by ROBERT MORRELL
Date: 2023.11.21 16:04:24 -05'00'

Robert Morrell, Geologist
Monitoring Operations Section

Date: _____

Report Approved by:

PHILIP COCUZZA
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Date: 2023.11.22 06:49:57 -05'00'

Philip Cocuzza, Supervisor
Monitoring Operations Section

Date: _____

1.0 OBJECTIVE

On September 26-27, 2023, at the request of the Water Compliance Branch, the United States Environmental Protection Agency (USEPA) conducted a National Pollutant Discharge Elimination System (NPDES) Pretreatment Compliance Sampling Inspection (CSI) at the Corning Incorporated Integrated Die Manufacturing (IDM) facility in Painted Post, New York. The objective of the CSI was to gather information necessary to determine compliance with the requirements and limitations of 40 CFR Part 433 (Metal Finishing Point Source Category) and the industrial sewer use permit issued by the Town of Erwin Wastewater Treatment Plant (WWTP).

2.0 KEY PARTICIPANTS

Listed below are key inspection participants and contact information, grouped by organization.

U.S. Environmental Protection Agency
Robert Morrell, Geologist, Lead Inspector
Morrell.robert@epa.gov, 732-906-6804
Neal Johansen, Physical Scientist
Johansen.neal@epa.gov, 732-321-6691

Corning Incorporated IDM Facility
Richard Bills, Environmental Health and Safety Manager
BillsRA@Corning.com, 607-974-0860
Frances Ciolino, Corporate Environmental Control
CiolinoF@Corning.com, 607-438-0932

3.0 FACILITY DESCRIPTION

3.1 General Information

The Corning Incorporated IDM facility is located at 905 Addison Road in Painted Post, New York. The facility is a manufacturer of dies that are used in the production process for ceramic catalytic converters. The company is categorized as Standard Industrial Classification (SIC) Code 3559 (Special Industry Machinery, Not Elsewhere Classified). The plant operates 24 hours per day, 5 days per week, with three 8-hour shifts. The plant currently has approximately 150 employees.

3.2 Process Information

At the Machine Module, stainless steel comes into the facility in blocks. Using computer numeric controlled (CNC) machines, the blocks of stainless steel are sliced, planed, and leveled to create the desired shape. Additional machining processes include drilling, cutting,

grinding, and electro discharge machining (EDM). The dies are coated using a chemical vapor deposition (CVD) process.

Process water for the facility is provided by the Town of Erwin. During the manufacturing process, high pressure tap water is used to clean the dies several times in the Die Wash Room. Most of the process wastewater is generated in this room. Other sources of wastewater include cooling water drains from the CVD process, filtered wire water from the EDM process, and sinks in the process areas. The process wastewater is collected in a holding tank prior to being discharged to the Town of Erwin WWTP.

3.3 Facility Self-Monitoring Information

Pretreatment wastewater samples are collected quarterly and analyzed by Adirondack Environmental Services in Albany, New York. In lieu of required monitoring for total toxic organics, Corning has submitted a Toxic Organic Management Plan and has been granted permission to submit a certification statement in its reports to EPA.

4.0 EPA SAMPLING/INSPECTION ACTIVITIES

4.1 Sampling Activities

On September 26, 2023, an automatic composite sampler was set up at the effluent monitoring location. The sampler was programmed to collect an aliquot of the effluent wastewater every 15 minutes for 24 hours. After 24 hours, the automatic composite sampler was disassembled, and the composite sample jug was mixed thoroughly before filling the sample containers. The 24-hour composite sample was analyzed for metals (cadmium, chromium, copper, lead, nickel, silver, zinc, barium, arsenic, mercury, and selenium), chloride, fluoride, 5-day biochemical oxygen demand (BOD_5), chemical oxygen demand (COD), total suspended solids (TSS), total dissolved solids (TDS), total phosphorus, ammonia, total kjeldahl nitrogen (TKN), nitrate, and nitrite. During the 24-hour sampling survey, a grab composite sample was also collected by filling the sample containers with four aliquots over 24 hours. The grab composite sample was analyzed for total cyanide, TTO non-volatile organics, and total phenolics. During the 24-hour sampling survey, four grab samples were also collected at the effluent monitoring location for TTO volatile organics, and oil and grease. A fifth grab sample was collected on September 27, 2023, for hexavalent chromium. Grab samples for pH, temperature, and total residual chlorine were collected and analyzed in the field. The 24-hour flow was provided by the facility representative.

All sample containers, preservation techniques, and holding times were in accordance with U.S. EPA requirements specified in 40 CFR Part 136. All samples were placed in a cooler with wet ice and transported to the U.S. EPA Region 2 Laboratory in Edison, New Jersey.

Split samples were collected and given to the facility representative.

5.0 ANALYTICAL RESULTS

Corning Incorporated IDM Facility Pretreatment CSI – Effluent to POTW
September 26-27, 2023

Parameter	Effluent to POTW	Local Discharge Limit – Daily Maximum	EPA 433.17 – Daily Maximum
pH (su)	8.11, 9.37, 8.25, 8.33	6.0 – 9.0 (range)	5.0 minimum
Flow (gpd)	28,592	100,000	--
Total Residual Chlorine (mg/l)	0.31	50.0	--
Cadmium (mg/l)	Not detected	0.39	0.11
Chromium (mg/l)	Not detected	3.0	2.77
Copper (mg/l)	0.0788	2.45	3.38
Lead (mg/l)	Not detected	0.21	0.69
Nickel (mg/l)	Not detected	3.98	3.98
Silver (mg/l)	Not detected	3.19	0.43
Zinc (mg/l	Not detected	3.0	2.61
Barium (mg/l)	0.142	2.34	--
Arsenic (mg/l)	Not detected	0.33	--
Mercury (mg/l)	Not detected	0.04	--
Selenium (mg/l)	Not detected	0.17	--
Cyanide (mg/l)	Not detected	0.25	1.20
TTO (mg/l)	Not detected	--	2.13
Chloride (mg/l)	38.6 (9.20 lbs/day)	25 lbs/day	--
Fluoride (mg/l)	0.550 (0.13 lbs/day)	1 lbs/day	--
Total Phenolics (mg/l)	0.0295	0.89	--
BOD_5 (mg/l)	2.36	250	--
COD (mg/l)	35.4 L	350	--
TSS (mg/l)	Not detected	300	--
TDS (mg/l)	377	Monitor only	--
Hexavalent Chromium (mg/l)	Not detected	0.69	--
Oil and Grease (mg/l)	Not detected	100	--
Phosphorus (mg/l)	1.23	15	--
Ammonia (mg/l)	Not detected	30	--
TKN (mg/l)	0.568 K	50	--
Nitrate (mg/l)	4.20	Monitor only	--
Nitrite (mg/l)	0.0302	Monitor only	--

L – The reported value may be biased low.
K – The reported value may be biased high.

6.0 FINDINGS

6.1 Sampling Result Findings

There were four grab samples collected for pH during the 24-hour sampling survey. The second pH sample, collected on the afternoon of September 26, was 9.37 standard units, which was outside of the pH range of 6.0 to 9.0 standard units listed in the industrial sewer use permit issued by the Town of Erwin WWTP.

Laboratory analytical results for the 24-hour sampling survey indicate that all other parameters did not exceed local discharge limitations in the industrial user permit, or the federal categorical limitations listed in 40 CFR Section 433.17.

The oil and grease sample containers provided by Adirondack Environmental Services are not the required containers listed in EPA Method 1664A or Standard Method 5520. The containers must be 1-liter wide mouth glass containers.

Hexavalent chromium is currently listed as a 24-hour composite sample in the industrial sewer use permit issued by the Town of Erwin WWTP. Because of the short holding time for hexavalent chromium (24 hours), this sample should be collected as a grab sample at the end of the sampling event.

The local limits in the industrial sewer use permit are less stringent than the federal categorical limits for the following pollutants: cadmium, chromium, silver, and zinc. Local limits should be at least as stringent as federal pretreatment standards (40 CFR Section 403.4).

7.0 ATTACHMENTS

Photograph #1
Laboratory Data Report
Chain of Custody / Field Data Forms

Photo #1: View of the pretreatment effluent location where samples were collected.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

October 17, 2023

Bob Morrell
Monitoring & Assessment Branch
LSASD/MAB
Edison, NJ 08837

RE: Corning Inc - 2309043

Enclosed are the results of analyses for samples received by the laboratory on 09/27/2023. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 2309043 and contact the laboratory.

Sincerely,

John R. Bourbon
Chief, LSASD/LB

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

The "Sample Analysis Date and Time" is included in the results section for any analyte with a prescribed holding time of 72 hours or less.

SVOA analysis: Most analytes are qualified mainly due to poor surrogate recovery.

Data Qualifier(s):

U- The analyte was not detected at or above the Reporting Limit.
J- The identification of the analyte is acceptable; the reported value is an estimate.
K- The identification of the analyte is acceptable; the reported value may be biased high.
L- The identification of the analyte is acceptable; the reported value may be biased low.
NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Final Report

Project: Corning Inc - 2309043

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Reporting Limit(s):

The Laboratory was able to achieve the standard laboratory reporting limits, where applicable, for each analyte requested except for the following analyte(s):

NVOA GCMS

The reporting level of 5.00 ug/L was raised to 10 ug/L for the following analyte(s):
2-Nitrophenol, Pentachlorophenol
for the following samples:
2309043-01

The reporting level of 5.00 ug/L was raised to 30 ug/L for the following analyte(s):
2,4-Dinitrophenol, 4,6-Dinitro-2-Methylphenol
for the following samples:
2309043-01

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent-Grab Composite	2309043-01	Aqueous	09/27/2023 09:12	09/27/2023 16:30
Trip Blank	2309043-02	Aqueous	09/26/2023 11:15	09/27/2023 16:30
Effluent-Grab#1	2309043-03	Aqueous	09/26/2023 11:30	09/27/2023 16:30
Effluent-Grab#2	2309043-04	Aqueous	09/26/2023 14:10	09/27/2023 16:30
Effluent-Grab#3	2309043-05	Aqueous	09/26/2023 18:03	09/27/2023 16:30
Effluent-Grab#4	2309043-06	Aqueous	09/27/2023 09:12	09/27/2023 16:30
Effluent-Grab#5	2309043-07	Aqueous	09/27/2023 10:01	09/27/2023 16:30
Effluent-24Hr-Comp.	2309043-08	Aqueous	09/27/2023 08:12	09/27/2023 16:30
Effluent-Lab Composite-Grab#1to Gra	2309043-09	Aqueous	09/27/2023 00:00	09/27/2023 16:30

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
624.1 VOA EPA-NPDES	EPA 624.1 SOP C-89 Rev 3.7	NELAP	Aqueous
625.1 SVOA NPDES	EPA 625.1 SOP C-90 Rev 3.9	NELAP	Aqueous
Ammonia [As N]	EPA 350.1 SOP C-80 Rev 2.8	NELAP	Aqueous
Biochemical Oxygen Demand	SM 5210B SOP C-21 Rev 2.8	NELAP	Aqueous
Chemical Oxygen Demand	EPA 410.4 SOP C-53 Rev 2.8	NELAP	Aqueous
Chloride	EPA 300.0 SOP C-94 Rev 2.8	NELAP	Aqueous
Chromium, Hexavalent	HACH 8023 SOP C-96 Rev 2.8	NELAP	Aqueous
Cyanide, Total	EPA 335.4 SOP C-28 Rev 2.8	NELAP	Aqueous
Fluoride	EPA 300.0 SOP C-94 Rev 2.8	NELAP	Aqueous
Mercury	EPA 245.1 SOP C-110 Rev 2.8	NELAP	Aqueous
Metals ICP TAL NPDES/DW	EPA 200.7 SOP C-109 Rev 3.7	NELAP	Aqueous
Nitrate [As N]	EPA 353.2 SOP C-79 Rev 3.7	NELAP	Aqueous
Nitrite [As N]	EPA 353.2 SOP C-79 Rev 3.7	NELAP	Aqueous
Nitrogen, Total Kjeldahl	EPA 351.2 SOP C-40 Rev2.8	NELAP	Aqueous
Oil & Grease	EPA 1664A SOP C-126 Rev 1.7	NELAP	Aqueous
Phenolics, Total	EPA 420.4 SOP C-29 Rev 2.8	NELAP	Aqueous
Phosphorus	EPA 365.1 SOP C-68 Rev 2.8	NELAP	Aqueous
Residue, Filterable	SM 2540C SOP C-37 Rev 2.8	NELAP	Aqueous
Residue, Non-Filterable	SM 2540D SOP C-33 Rev 3.8	NELAP	Aqueous

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: Effluent-Grab Composite			**Sample ID: 2309043-01**			
NVOA GCMS						
Acenaphthene	---	U L	5.49	ug/L	B310011	
Acenaphthylene	---	U L	5.49	ug/L	B310011	
Anthracene	---	U L	5.49	ug/L	B310011	
Benzo(A)Anthracene	---	U L	5.49	ug/L	B310011	
Benzo(A)Pyrene	---	U L	5.49	ug/L	B310011	
Benzo(B)Fluoranthene	---	U L	5.49	ug/L	B310011	
Benzo(G,H,I)Perylene	---	U L	5.49	ug/L	B310011	
Benzo(K)Fluoranthene	---	U L	5.49	ug/L	B310011	
Chrysene	---	U L	5.49	ug/L	B310011	
Dibenzo(A,H)Anthracene	---	U L	5.49	ug/L	B310011	
Fluoranthene	---	U	5.49	ug/L	B310011	
Fluorene	---	U L	5.49	ug/L	B310011	
Indeno(1,2,3-Cd)Pyrene	---	U L	5.49	ug/L	B310011	
Naphthalene	---	U L	2.20	ug/L	B310011	
Phenanthrene	---	U L	5.49	ug/L	B310011	
1,2,4-Trichlorobenzene	---	U L	5.49	ug/L	B310011	
2,4,6-Trichlorophenol	---	U L	5.49	ug/L	B310011	
2,4-Dichlorophenol	---	U L	5.49	ug/L	B310011	
2,4-Dimethylphenol	---	U L	5.49	ug/L	B310011	
2,4-Dinitrotoluene	---	U L	5.49	ug/L	B310011	
2,6-Dinitrotoluene	---	U L	5.49	ug/L	B310011	
2,4-Dinitrophenol	---	U J	33.0	ug/L	B310011	
2-Chloronaphthalene	---	U L	5.49	ug/L	B310011	
2-Chlorophenol	---	U L	5.49	ug/L	B310011	
2-Nitrophenol	---	U J	11.0	ug/L	B310011	
3,3'- Dichlorobenzidine	---	U L	5.49	ug/L	B310011	
4,6-Dinitro-2-Methylphenol	---	U L	33.0	ug/L	B310011	
4-Bromophenyl-Phenylether	---	U L	5.49	ug/L	B310011	
4-Chloro-3-Methylphenol	---	U L	5.49	ug/L	B310011	

Final Report

Project: Corning Inc - 2309043

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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: Effluent-Grab Composite				**Sample ID: 2309043-01**		
NVOA GCMS						
4-Chlorophenyl-Phenylether	---	U L	5.49	ug/L	B310011	
4-Nitrophenol	---	U L	5.49	ug/L	B310011	
Bis(-2-Chloroethoxy)Methane	---	U L	5.49	ug/L	B310011	
Bis(2-Chloroethyl)Ether	---	U L	5.49	ug/L	B310011	
Bis(2-Chloroisopropyl)Ether	---	U L	5.49	ug/L	B310011	
Bis(2-Ethylhexyl)Phthalate	---	U L	5.49	ug/L	B310011	
Butylbenzylphthalate	---	U	5.49	ug/L	B310011	
Azobenzene	---	U L	5.49	ug/L	B310011	
Diethylphthalate	---	U L	5.49	ug/L	B310011	
Dimethyl Phthalate	---	U L	2.20	ug/L	B310011	
Di-N-Butyl Phthalate	---	U L	5.49	ug/L	B310011	
Di-N-Octyl Phthalate	---	U L	5.49	ug/L	B310011	
Hexachlorobenzene	---	U L	5.49	ug/L	B310011	
Hexachlorobutadiene	---	U L	2.20	ug/L	B310011	
Hexachlorocyclopentadiene	---	U L	5.49	ug/L	B310011	
Hexachloroethane	---	U J	2.20	ug/L	B310011	
Isophorone	---	U L	5.49	ug/L	B310011	
Nitrobenzene	---	U L	5.49	ug/L	B310011	
N-Nitrosodimethylamine	---	U L	5.49	ug/L	B310011	
N-Nitroso-Di-N-Propylamine	---	U L	5.49	ug/L	B310011	
N-Nitrosodiphenylamine	---	U L	5.49	ug/L	B310011	
Pentachlorophenol	---	U L	11.0	ug/L	B310011	
Phenol	---	U L	2.20	ug/L	B310011	
Pyrene	---	U	5.49	ug/L	B310011	

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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: Effluent-Grab Composite			**Sample ID: 2309043-01**			
Sanitary						
Cyanide, Total	---	U L	10.0	ug/L	B310010	
Phenolics, Total	29.5		20.0	ug/L	B309138	
Field ID: Trip Blank			**Sample ID: 2309043-02**			
VOA GCMS						
Chloromethane	---	U	5.00	ug/L	B309136	
Vinyl Chloride	---	U	5.00	ug/L	B309136	
Bromomethane	---	U	5.00	ug/L	B309136	
Chloroethane	---	U	5.00	ug/L	B309136	
Trichlorofluoromethane	---	U	5.00	ug/L	B309136	
1,1-Dichloroethene	---	U	5.00	ug/L	B309136	
Methylene Chloride	---	U	5.00	ug/L	B309136	
Acrylonitrile	---	U	5.00	ug/L	B309136	
trans-1,2-Dichloroethene	---	U	5.00	ug/L	B309136	
1,1-Dichloroethane	---	U	5.00	ug/L	B309136	
Chloroform	---	U	5.00	ug/L	B309136	
1,1,1-Trichloroethane	---	U	5.00	ug/L	B309136	
Carbon Tetrachloride	---	U	5.00	ug/L	B309136	
1,2-Dichloroethane	---	U	5.00	ug/L	B309136	
Benzene	---	U	5.00	ug/L	B309136	
Trichloroethene	---	U	5.00	ug/L	B309136	
1,2-Dichloropropane	---	U	5.00	ug/L	B309136	
Bromodichloromethane	---	U	5.00	ug/L	B309136	
cis-1,3-Dichloropropene	---	U	5.00	ug/L	B309136	
Toluene	---	U	5.00	ug/L	B309136	
trans-1,3-Dichloropropene	---	U	5.00	ug/L	B309136	
1,1,2-Trichloroethane	---	U	5.00	ug/L	B309136	
Tetrachloroethene	---	U	5.00	ug/L	B309136	
Dibromochloromethane	---	U	5.00	ug/L	B309136	
Chlorobenzene	---	U	5.00	ug/L	B309136	

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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: Trip Blank			**Sample ID: 2309043-02**			
VOA GCMS						
Ethylbenzene	---	U	5.00	ug/L	B309136	
Bromoform	---	U	5.00	ug/L	B309136	
1,1,2,2-Tetrachloroethane	---	U	5.00	ug/L	B309136	
1,3-Dichlorobenzene	---	U	5.00	ug/L	B309136	
1,4-Dichlorobenzene	---	U	5.00	ug/L	B309136	
1,2-Dichlorobenzene	---	U	5.00	ug/L	B309136	
Field ID: Effluent-Grab#1			**Sample ID: 2309043-03**			
GC						
Oil & Grease	---	U	6.76	mg/L	B310062	
Field ID: Effluent-Grab#2			**Sample ID: 2309043-04**			
GC						
Oil & Grease	---	U	6.02	mg/L	B310062	
Field ID: Effluent-Grab#3			**Sample ID: 2309043-05**			
GC						
Oil & Grease	---	U	6.67	mg/L	B310062	
Field ID: Effluent-Grab#4			**Sample ID: 2309043-06**			
GC						
Oil & Grease	---	U	6.94	mg/L	B310062	
Field ID: Effluent-Grab#5			**Sample ID: 2309043-07**			
Sanitary						
Chromium, Hexavalent	---	U	10.0	ug/L	B309132	09/27/2023 17:09
Field ID: Effluent-24Hr-Comp.			**Sample ID: 2309043-08**			
Metals ICP						
Arsenic	---	U	8.00	ug/L	B309146	
Barium	142		100	ug/L	B309146	
Cadmium	---	U	3.00	ug/L	B309146	

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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: Effluent-24Hr-Comp.			**Sample ID: 2309043-08**			
Metals ICP						
Chromium	---	U	5.00	ug/L	B309146	
Copper	78.8		10.0	ug/L	B309146	
Lead	---	U	8.00	ug/L	B309146	
Nickel	---	U	20.0	ug/L	B309146	
Selenium	---	U	20.0	ug/L	B309146	
Silver	---	U	5.00	ug/L	B309146	
Zinc	---	U	20.0	ug/L	B309146	
Mercury CVAA						
Mercury	---	U	0.050	ug/L	B310050	
Sanitary						
Ammonia [As N]	---	U L	0.100	mg/L	B310022	
Biochemical Oxygen Demand	2.36		2.00	mg/L	B309141	10/03/2023 10:10
Chemical Oxygen Demand	35.4	L	20.0	mg/L	B309140	
Chloride	38.6		1.00	mg/L	B310004	
Fluoride	0.550		0.0500	mg/L	B310002	
Nitrate [As N]	4.20		0.500	mg/L	B309134	09/27/2023 16:48
Nitrite [As N]	0.0302		0.0250	mg/L	B309134	09/27/2023 16:48
Nitrogen, Total Kjeldahl	0.568	K	0.100	mg/L	B310003	
Phosphorus	1.23		0.0500	mg/L	B310048	
Total Dissolved Solids	377		10.0	mg/L	B310013	
Total Suspended Solids	---	U	10.0	mg/L	B310014	
Field ID: Effluent-Lab Composite-Grab#1to Grab#4			**Sample ID: 2309043-09**			
VOA GCMS						
Chloromethane	---	U	5.00	ug/L	B309136	
Vinyl Chloride	---	U	5.00	ug/L	B309136	
Bromomethane	---	U J	5.00	ug/L	B309136	
Chloroethane	---	U	5.00	ug/L	B309136	
Trichlorofluoromethane	---	U	5.00	ug/L	B309136	
1,1-Dichloroethene	---	U	5.00	ug/L	B309136	

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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: Effluent-Lab Composite-Grab#1to Grab#4				**Sample ID: 2309043-09**		
VOA GCMS						
Methylene Chloride	---	U	5.00	ug/L	B309136	
Acrylonitrile	---	U	5.00	ug/L	B309136	
trans-1,2-Dichloroethene	---	U	5.00	ug/L	B309136	
1,1-Dichloroethane	---	U	5.00	ug/L	B309136	
Chloroform	---	U	5.00	ug/L	B309136	
1,1,1-Trichloroethane	---	U	5.00	ug/L	B309136	
Carbon Tetrachloride	---	U	5.00	ug/L	B309136	
1,2-Dichloroethane	---	U	5.00	ug/L	B309136	
Benzene	---	U	5.00	ug/L	B309136	
Trichloroethene	---	U	5.00	ug/L	B309136	
1,2-Dichloropropane	---	U	5.00	ug/L	B309136	
Bromodichloromethane	---	U	5.00	ug/L	B309136	
cis-1,3-Dichloropropene	---	U J	5.00	ug/L	B309136	
Toluene	---	U	5.00	ug/L	B309136	
trans-1,3-Dichloropropene	---	U	5.00	ug/L	B309136	
1,1,2-Trichloroethane	---	U	5.00	ug/L	B309136	
Tetrachloroethene	---	U	5.00	ug/L	B309136	
Dibromochloromethane	---	U	5.00	ug/L	B309136	
Chlorobenzene	---	U	5.00	ug/L	B309136	
Ethylbenzene	---	U	5.00	ug/L	B309136	
Bromoform	---	U	5.00	ug/L	B309136	
1,1,2,2-Tetrachloroethane	---	U	5.00	ug/L	B309136	
1,3-Dichlorobenzene	---	U	5.00	ug/L	B309136	
1,4-Dichlorobenzene	---	U	5.00	ug/L	B309136	
1,2-Dichlorobenzene	---	U	5.00	ug/L	B309136	

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

VOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B309136									
Blank (B309136-BLK1)									
Chloromethane	--- U	5.00	ug/L						
Vinyl Chloride	--- U	5.00	ug/L						
Bromomethane	--- U	5.00	ug/L						
Chloroethane	--- U	5.00	ug/L						
Trichlorofluoromethane	--- U	5.00	ug/L						
1,1-Dichloroethene	--- U	5.00	ug/L						
Methylene Chloride	--- U	5.00	ug/L						
Acrylonitrile	--- U	5.00	ug/L						
trans-1,2-Dichloroethene	--- U	5.00	ug/L						
1,1-Dichloroethane	--- U	5.00	ug/L						
Chloroform	--- U	5.00	ug/L						
1,1,1-Trichloroethane	--- U	5.00	ug/L						
Carbon Tetrachloride	--- U	5.00	ug/L						
1,2-Dichloroethane	--- U	5.00	ug/L						
Benzene	--- U	5.00	ug/L						
Trichloroethene	--- U	5.00	ug/L						
1,2-Dichloropropane	--- U	5.00	ug/L						
Bromodichloromethane	--- U	5.00	ug/L						
cis-1,3-Dichloropropene	--- U	5.00	ug/L						
Toluene	--- U	5.00	ug/L						
trans-1,3-Dichloropropene	--- U	5.00	ug/L						
1,1,2-Trichloroethane	--- U	5.00	ug/L						
Tetrachloroethene	--- U	5.00	ug/L						
Dibromochloromethane	--- U	5.00	ug/L						
Chlorobenzene	--- U	5.00	ug/L						
Ethylbenzene	--- U	5.00	ug/L						
Bromoform	--- U	5.00	ug/L						
1,1,2,2-Tetrachloroethane	--- U	5.00	ug/L						
1,3-Dichlorobenzene	--- U	5.00	ug/L						
1,4-Dichlorobenzene	--- U	5.00	ug/L						
1,2-Dichlorobenzene	--- U	5.00	ug/L						
Surrogate: 1,4-Difluorobenzene	*101*		ug/L	*100.0*		*101*	*60-140*		
Surrogate: 2-Bromo-1-Chloropropane	*105*		ug/L	*100.0*		*105*	*60-140*		
Surrogate: 1,4-Dichlorobutane	*107*		ug/L	*100.0*		*107*	*60-140*		

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

VOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B309136									
LCS (B309136-BS1)									
Chloromethane	51.2	5.00	ug/L	50.00		102	19-205		
Vinyl Chloride	46.4	5.00	ug/L	50.00		92.8	5-195		
Bromomethane	45.7	5.00	ug/L	50.00		91.5	15-185		
Chloroethane	51.6	5.00	ug/L	50.00		103	40-160		
Trichlorofluoromethane	52.8	5.00	ug/L	50.00		106	50-150		
1,1-Dichloroethene	54.4	5.00	ug/L	50.00		109	50-150		
Methylene Chloride	55.4	5.00	ug/L	50.00		111	60-140		
Acrylonitrile	62.6	5.00	ug/L	50.00		125	60-140		
trans-1,2-Dichloroethene	57.6	5.00	ug/L	50.00		115	70-130		
1,1-Dichloroethane	56.2	5.00	ug/L	50.00		112	70-130		
Chloroform	55.7	5.00	ug/L	50.00		111	70-135		
1,1,1-Trichloroethane	57.1	5.00	ug/L	50.00		114	70-130		
Carbon Tetrachloride	55.5	5.00	ug/L	50.00		111	70-130		
1,2-Dichloroethane	55.7	5.00	ug/L	50.00		111	70-130		
Benzene	56.7	5.00	ug/L	50.00		113	65-135		
Trichloroethene	55.7	5.00	ug/L	50.00		111	65-135		
1,2-Dichloropropane	57.1	5.00	ug/L	50.00		114	35-165		
Bromodichloromethane	56.0	5.00	ug/L	50.00		112	65-135		
cis-1,3-Dichloropropene	56.5	5.00	ug/L	50.00		113	25-175		
Toluene	56.4	5.00	ug/L	50.00		113	70-130		
trans-1,3-Dichloropropene	59.8	5.00	ug/L	50.00		120	50-150		
1,1,2-Trichloroethane	53.9	5.00	ug/L	50.00		108	70-130		
Tetrachloroethene	52.6	5.00	ug/L	50.00		105	70-130		
Dibromochloromethane	55.4	5.00	ug/L	50.00		111	70-135		
Chlorobenzene	54.4	5.00	ug/L	50.00		109	65-135		
Ethylbenzene	57.4	5.00	ug/L	50.00		115	60-140		
Bromoform	55.1	5.00	ug/L	50.00		110	70-130		
1,1,2,2-Tetrachloroethane	57.3	5.00	ug/L	50.00		115	60-140		
1,3-Dichlorobenzene	53.6	5.00	ug/L	50.00		107	70-130		
1,4-Dichlorobenzene	52.6	5.00	ug/L	50.00		105	65-135		
1,2-Dichlorobenzene	53.2	5.00	ug/L	50.00		106	65-135		
Surrogate: 1,4-Difluorobenzene	*99.0*		ug/L	*100.0*		*99.0*	*60-140*		
Surrogate: 2-Bromo-1-Chloropropane	*106*		ug/L	*100.0*		*106*	*60-140*		
Surrogate: 1,4-Dichlorobutane	*110*		ug/L	*100.0*		*110*	*60-140*		

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

VOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B309136									
LCS Dup (B309136-BSD1)									
Chloromethane	48.2	5.00	ug/L	50.00		96.5	19-205	6.05	20
Vinyl Chloride	43.0	5.00	ug/L	50.00		86.1	5-195	7.49	20
Bromomethane	44.5	5.00	ug/L	50.00		89.0	15-185	2.73	20
Chloroethane	49.0	5.00	ug/L	50.00		98.1	40-160	5.18	20
Trichlorofluoromethane	50.1	5.00	ug/L	50.00		100	50-150	5.21	20
1,1-Dichloroethene	51.6	5.00	ug/L	50.00		103	50-150	5.42	20
Methylene Chloride	53.6	5.00	ug/L	50.00		107	60-140	3.36	20
Acrylonitrile	62.0	5.00	ug/L	50.00		124	60-140	0.979	20
trans-1,2-Dichloroethene	55.0	5.00	ug/L	50.00		110	70-130	4.58	20
1,1-Dichloroethane	53.5	5.00	ug/L	50.00		107	70-130	4.96	20
Chloroform	52.9	5.00	ug/L	50.00		106	70-135	5.17	20
1,1,1-Trichloroethane	53.7	5.00	ug/L	50.00		107	70-130	6.03	20
Carbon Tetrachloride	52.0	5.00	ug/L	50.00		104	70-130	6.54	20
1,2-Dichloroethane	54.7	5.00	ug/L	50.00		109	70-130	1.78	20
Benzene	53.2	5.00	ug/L	50.00		106	65-135	6.37	20
Trichloroethene	53.0	5.00	ug/L	50.00		106	65-135	5.08	20
1,2-Dichloropropane	54.2	5.00	ug/L	50.00		108	35-165	5.12	20
Bromodichloromethane	53.5	5.00	ug/L	50.00		107	65-135	4.67	20
cis-1,3-Dichloropropene	53.7	5.00	ug/L	50.00		107	25-175	5.15	20
Toluene	52.4	5.00	ug/L	50.00		105	70-130	7.35	20
trans-1,3-Dichloropropene	56.7	5.00	ug/L	50.00		113	50-150	5.22	20
1,1,2-Trichloroethane	52.8	5.00	ug/L	50.00		106	70-130	2.06	20
Tetrachloroethene	50.0	5.00	ug/L	50.00		100	70-130	5.09	20
Dibromochloromethane	53.6	5.00	ug/L	50.00		107	70-135	3.21	20
Chlorobenzene	51.7	5.00	ug/L	50.00		103	65-135	5.04	20
Ethylbenzene	54.5	5.00	ug/L	50.00		109	60-140	5.15	20
Bromoform	54.5	5.00	ug/L	50.00		109	70-130	0.986	20
1,1,2,2-Tetrachloroethane	55.1	5.00	ug/L	50.00		110	60-140	3.79	20
1,3-Dichlorobenzene	51.4	5.00	ug/L	50.00		103	70-130	4.21	20
1,4-Dichlorobenzene	50.9	5.00	ug/L	50.00		102	65-135	3.29	20
1,2-Dichlorobenzene	51.9	5.00	ug/L	50.00		104	65-135	2.49	20
Surrogate: 1,4-Difluorobenzene	*97.8*		ug/L	*100.0*		*97.8*	*60-140*		
Surrogate: 2-Bromo-1-Chloropropane	*103*		ug/L	*100.0*		*103*	*60-140*		
Surrogate: 1,4-Dichlorobutane	*109*		ug/L	*100.0*		*109*	*60-140*		

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

VOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B309136									
Matrix Spike (B309136-MS1)		**Source: 2309020-08**							
Chloromethane	49.6	5.00	ug/L	50.00	ND	99.1	19-273		
Vinyl Chloride	49.7	5.00	ug/L	50.00	ND	99.4	49-251		
Bromomethane	33.3	5.00	ug/L	50.00	ND	66.6	21-242		
Chloroethane	55.2	5.00	ug/L	50.00	ND	110	14-230		
Trichlorofluoromethane	53.7	5.00	ug/L	50.00	ND	107	17-181		
1,1-Dichloroethene	52.8	5.00	ug/L	50.00	ND	106	52-234		
Methylene Chloride	55.0	5.00	ug/L	50.00	ND	110	69-221		
Acrylonitrile	57.9	5.00	ug/L	50.00	ND	116	40-160		
trans-1,2-Dichloroethene	53.5	5.00	ug/L	50.00	ND	107	54-156		
1,1-Dichloroethane	55.6	5.00	ug/L	50.00	ND	111	59-155		
Chloroform	66.7	5.00	ug/L	50.00	12.5	108	51-138		
1,1,1-Trichloroethane	54.9	5.00	ug/L	50.00	ND	110	52-162		
Carbon Tetrachloride	55.0	5.00	ug/L	50.00	ND	110	70-140		
1,2-Dichloroethane	54.0	5.00	ug/L	50.00	ND	108	49-155		
Benzene	54.5	5.00	ug/L	50.00	ND	109	37-151		
Trichloroethene	54.1	5.00	ug/L	50.00	ND	108	70-157		
1,2-Dichloropropane	55.2	5.00	ug/L	50.00	ND	110	74-210		
Bromodichloromethane	55.2	5.00	ug/L	50.00	ND	110	35-155		
cis-1,3-Dichloropropene	40.3	5.00	ug/L	50.00	ND	80.6	80-227		
Toluene	53.5	5.00	ug/L	50.00	ND	107	47-150		
trans-1,3-Dichloropropene	48.4	5.00	ug/L	50.00	ND	96.8	17-183		
1,1,2-Trichloroethane	52.8	5.00	ug/L	50.00	ND	106	52-150		
Tetrachloroethene	51.7	5.00	ug/L	50.00	ND	103	64-148		
Dibromochloromethane	53.1	5.00	ug/L	50.00	ND	106	53-149		
Chlorobenzene	52.8	5.00	ug/L	50.00	ND	106	37-160		
Ethylbenzene	54.8	5.00	ug/L	50.00	ND	110	37-162		
Bromoform	53.0	5.00	ug/L	50.00	ND	106	45-169		
1,1,2,2-Tetrachloroethane	56.2	5.00	ug/L	50.00	ND	112	46-157		
1,3-Dichlorobenzene	52.6	5.00	ug/L	50.00	ND	105	59-156		
1,4-Dichlorobenzene	52.1	5.00	ug/L	50.00	ND	104	18-190		
1,2-Dichlorobenzene	52.6	5.00	ug/L	50.00	ND	105	18-190		
Surrogate: 1,4-Difluorobenzene	*98.2*		ug/L	*100.0*		*98.2*	*60-140*		
Surrogate: 2-Bromo-1-Chloropropane	*104*		ug/L	*100.0*		*104*	*60-140*		
Surrogate: 1,4-Dichlorobutane	*110*		ug/L	*100.0*		*110*	*60-140*		

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

VOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B309136									
Matrix Spike (B309136-MS2)		**Source: 2309043-09**							
Chloromethane	46.7	5.00	ug/L	50.00	ND	93.4	19-273		
Vinyl Chloride	49.3	5.00	ug/L	50.00	ND	98.6	49-251		
Bromomethane	8.96	5.00	ug/L	50.00	ND	17.9	21-242		
Chloroethane	53.4	5.00	ug/L	50.00	ND	107	14-230		
Trichlorofluoromethane	54.4	5.00	ug/L	50.00	ND	109	17-181		
1,1-Dichloroethene	53.3	5.00	ug/L	50.00	ND	107	52-234		
Methylene Chloride	55.2	5.00	ug/L	50.00	ND	110	69-221		
Acrylonitrile	58.8	5.00	ug/L	50.00	ND	118	40-160		
trans-1,2-Dichloroethene	52.3	5.00	ug/L	50.00	ND	105	54-156		
1,1-Dichloroethane	55.3	5.00	ug/L	50.00	ND	111	59-155		
Chloroform	54.4	5.00	ug/L	50.00	ND	109	51-138		
1,1,1-Trichloroethane	54.6	5.00	ug/L	50.00	ND	109	52-162		
Carbon Tetrachloride	54.0	5.00	ug/L	50.00	ND	108	70-140		
1,2-Dichloroethane	53.4	5.00	ug/L	50.00	ND	107	49-155		
Benzene	55.0	5.00	ug/L	50.00	ND	110	37-151		
Trichloroethene	54.7	5.00	ug/L	50.00	ND	109	70-157		
1,2-Dichloropropane	54.7	5.00	ug/L	50.00	ND	109	74-210		
Bromodichloromethane	54.6	5.00	ug/L	50.00	ND	109	35-155		
cis-1,3-Dichloropropene	15.2	5.00	ug/L	50.00	ND	30.5	80-227		
Toluene	54.2	5.00	ug/L	50.00	ND	108	47-150		
trans-1,3-Dichloropropene	35.1	5.00	ug/L	50.00	ND	70.1	17-183		
1,1,2-Trichloroethane	53.0	5.00	ug/L	50.00	ND	106	52-150		
Tetrachloroethene	52.0	5.00	ug/L	50.00	ND	104	64-148		
Dibromochloromethane	54.5	5.00	ug/L	50.00	ND	109	53-149		
Chlorobenzene	52.2	5.00	ug/L	50.00	ND	104	37-160		
Ethylbenzene	54.5	5.00	ug/L	50.00	ND	109	37-162		
Bromoform	54.1	5.00	ug/L	50.00	ND	108	45-169		
1,1,2,2-Tetrachloroethane	55.5	5.00	ug/L	50.00	ND	111	46-157		
1,3-Dichlorobenzene	52.3	5.00	ug/L	50.00	ND	105	59-156		
1,4-Dichlorobenzene	52.4	5.00	ug/L	50.00	ND	105	18-190		
1,2-Dichlorobenzene	52.3	5.00	ug/L	50.00	ND	105	18-190		
Surrogate: 1,4-Difluorobenzene	*99.3*		ug/L	*100.0*		*99.3*	*60-140*		
Surrogate: 2-Bromo-1-Chloropropane	*106*		ug/L	*100.0*		*106*	*60-140*		
Surrogate: 1,4-Dichlorobutane	*111*		ug/L	*100.0*		*111*	*60-140*		

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

VOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B309136									
Matrix Spike Dup (B309136-MSD1)	**Source: 2309020-08**								
Chloromethane	45.2	5.00	ug/L	50.00	ND	90.4	19-273	9.18	28
Vinyl Chloride	44.6	5.00	ug/L	50.00	ND	89.1	49-251	10.9	28
Bromomethane	26.6	5.00	ug/L	50.00	ND	53.1	21-242	22.6	28
Chloroethane	49.6	5.00	ug/L	50.00	ND	99.3	14-230	10.5	28
Trichlorofluoromethane	48.7	5.00	ug/L	50.00	ND	97.4	17-181	9.75	28
1,1-Dichloroethene	47.8	5.00	ug/L	50.00	ND	95.7	52-234	9.76	28
Methylene Chloride	50.4	5.00	ug/L	50.00	ND	101	69-221	8.69	28
Acrylonitrile	55.4	5.00	ug/L	50.00	ND	111	40-160	4.34	28
trans-1,2-Dichloroethene	49.5	5.00	ug/L	50.00	ND	99.0	54-156	7.84	28
1,1-Dichloroethane	50.6	5.00	ug/L	50.00	ND	101	59-155	9.51	28
Chloroform	60.7	5.00	ug/L	50.00	12.5	96.5	51-138	11.7	28
1,1,1-Trichloroethane	50.4	5.00	ug/L	50.00	ND	101	52-162	8.63	28
Carbon Tetrachloride	49.6	5.00	ug/L	50.00	ND	99.2	70-140	10.3	28
1,2-Dichloroethane	50.3	5.00	ug/L	50.00	ND	101	49-155	6.98	28
Benzene	50.6	5.00	ug/L	50.00	ND	101	37-151	7.50	28
Trichloroethene	49.8	5.00	ug/L	50.00	ND	99.6	70-157	8.32	28
1,2-Dichloropropane	51.1	5.00	ug/L	50.00	ND	102	74-210	7.56	28
Bromodichloromethane	52.0	5.00	ug/L	50.00	ND	104	35-155	6.14	28
cis-1,3-Dichloropropene	34.0	5.00	ug/L	50.00	ND	68.0	80-227	16.9	28
Toluene	49.7	5.00	ug/L	50.00	ND	99.3	47-150	7.42	28
trans-1,3-Dichloropropene	43.9	5.00	ug/L	50.00	ND	87.9	17-183	9.64	28
1,1,2-Trichloroethane	49.7	5.00	ug/L	50.00	ND	99.4	52-150	6.01	28
Tetrachloroethene	47.6	5.00	ug/L	50.00	ND	95.3	64-148	8.23	28
Dibromochloromethane	49.6	5.00	ug/L	50.00	ND	99.2	53-149	6.72	28
Chlorobenzene	49.0	5.00	ug/L	50.00	ND	98.0	37-160	7.46	28
Ethylbenzene	50.9	5.00	ug/L	50.00	ND	102	37-162	7.27	28
Bromoform	50.3	5.00	ug/L	50.00	ND	101	45-169	5.24	28
1,1,2,2-Tetrachloroethane	53.4	5.00	ug/L	50.00	ND	107	46-157	5.05	28
1,3-Dichlorobenzene	49.1	5.00	ug/L	50.00	ND	98.1	59-156	6.93	28
1,4-Dichlorobenzene	49.2	5.00	ug/L	50.00	ND	98.4	18-190	5.71	28
1,2-Dichlorobenzene	49.3	5.00	ug/L	50.00	ND	98.5	18-190	6.60	28
Surrogate: 1,4-Difluorobenzene	*99.3*		ug/L	*100.0*		*99.3*	*60-140*		
Surrogate: 2-Bromo-1-Chloropropane	*104*		ug/L	*100.0*		*104*	*60-140*		
Surrogate: 1,4-Dichlorobutane	*110*		ug/L	*100.0*		*110*	*60-140*		

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

VOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B309136									
Matrix Spike Dup (B309136-MSD2)	**Source: 2309043-09**								
Chloromethane	45.3	5.00	ug/L	50.00	ND	90.6	19-273	3.02	28
Vinyl Chloride	47.7	5.00	ug/L	50.00	ND	95.5	49-251	3.19	28
Bromomethane	6.04	5.00	ug/L	50.00	ND	12.1	21-242	38.9	28
Chloroethane	54.4	5.00	ug/L	50.00	ND	109	14-230	1.87	28
Trichlorofluoromethane	53.5	5.00	ug/L	50.00	ND	107	17-181	1.69	28
1,1-Dichloroethene	53.3	5.00	ug/L	50.00	ND	107	52-234	0.0188	28
Methylene Chloride	53.9	5.00	ug/L	50.00	ND	108	69-221	2.49	28
Acrylonitrile	57.7	5.00	ug/L	50.00	ND	115	40-160	1.90	28
trans-1,2-Dichloroethene	52.5	5.00	ug/L	50.00	ND	105	54-156	0.324	28
1,1-Dichloroethane	53.6	5.00	ug/L	50.00	ND	107	59-155	3.12	28
Chloroform	53.5	5.00	ug/L	50.00	ND	107	51-138	1.54	28
1,1,1-Trichloroethane	54.0	5.00	ug/L	50.00	ND	108	52-162	1.16	28
Carbon Tetrachloride	53.5	5.00	ug/L	50.00	ND	107	70-140	0.967	28
1,2-Dichloroethane	52.6	5.00	ug/L	50.00	ND	105	49-155	1.51	28
Benzene	54.6	5.00	ug/L	50.00	ND	109	37-151	0.657	28
Trichloroethene	54.0	5.00	ug/L	50.00	ND	108	70-157	1.16	28
1,2-Dichloropropane	54.4	5.00	ug/L	50.00	ND	109	74-210	0.476	28
Bromodichloromethane	54.3	5.00	ug/L	50.00	ND	109	35-155	0.477	28
cis-1,3-Dichloropropene	9.68	5.00	ug/L	50.00	ND	19.4	80-227	44.6	28
Toluene	53.4	5.00	ug/L	50.00	ND	107	47-150	1.60	28
trans-1,3-Dichloropropene	29.9	5.00	ug/L	50.00	ND	59.8	17-183	15.9	28
1,1,2-Trichloroethane	51.9	5.00	ug/L	50.00	ND	104	52-150	2.17	28
Tetrachloroethene	51.1	5.00	ug/L	50.00	ND	102	64-148	1.73	28
Dibromochloromethane	53.2	5.00	ug/L	50.00	ND	106	53-149	2.28	28
Chlorobenzene	52.0	5.00	ug/L	50.00	ND	104	37-160	0.230	28
Ethylbenzene	53.8	5.00	ug/L	50.00	ND	108	37-162	1.29	28
Bromoform	53.1	5.00	ug/L	50.00	ND	106	45-169	1.88	28
1,1,2,2-Tetrachloroethane	54.2	5.00	ug/L	50.00	ND	108	46-157	2.41	28
1,3-Dichlorobenzene	52.0	5.00	ug/L	50.00	ND	104	59-156	0.479	28
1,4-Dichlorobenzene	51.8	5.00	ug/L	50.00	ND	104	18-190	1.13	28
1,2-Dichlorobenzene	52.2	5.00	ug/L	50.00	ND	104	18-190	0.191	28
Surrogate: 1,4-Difluorobenzene	*99.8*		ug/L	*100.0*		*99.8*	*60-140*		
Surrogate: 2-Bromo-1-Chloropropane	*105*		ug/L	*100.0*		*105*	*60-140*		
Surrogate: 1,4-Dichlorobutane	*110*		ug/L	*100.0*		*110*	*60-140*		

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310011									
Blank (B310011-BLK1)									
Acenaphthene	--- U	5.00	ug/L						
Acenaphthylene	--- U	5.00	ug/L						
Anthracene	--- U	5.00	ug/L						
Benzo(A)Anthracene	--- U	5.00	ug/L						
Benzo(A)Pyrene	--- U	5.00	ug/L						
Benzo(B)Fluoranthene	--- U	5.00	ug/L						
Benzo(G,H,I)Perylene	--- U	5.00	ug/L						
Benzo(K)Fluoranthene	--- U	5.00	ug/L						
Chrysene	--- U	5.00	ug/L						
Dibenzo(A,H)Anthracene	--- U	5.00	ug/L						
Fluoranthene	--- U	5.00	ug/L						
Fluorene	--- U	5.00	ug/L						
Indeno(1,2,3-Cd)Pyrene	--- U	5.00	ug/L						
Naphthalene	--- U	5.00	ug/L						
Phenanthrene	--- U	5.00	ug/L						
1,2,4-Trichlorobenzene	--- U	5.00	ug/L						
2,4,6-Trichlorophenol	--- U	5.00	ug/L						
2,4-Dichlorophenol	--- U	5.00	ug/L						
2,4-Dimethylphenol	--- U	5.00	ug/L						
2,4-Dinitrotoluene	--- U	5.00	ug/L						
2,6-Dinitrotoluene	--- U	5.00	ug/L						
2,4-Dinitrophenol	--- U	5.00	ug/L						
2-Chloronaphthalene	--- U	5.00	ug/L						
2-Chlorophenol	--- U	5.00	ug/L						
2-Nitrophenol	--- U	5.00	ug/L						
3,3'- Dichlorobenzidine	--- U	5.00	ug/L						
4,6-Dinitro-2-Methylphenol	--- U	5.00	ug/L						
4-Bromophenyl-Phenylether	--- U	5.00	ug/L						
4-Chloro-3-Methylphenol	--- U	5.00	ug/L						
4-Chlorophenyl-Phenylether	--- U	5.00	ug/L						
4-Nitrophenol	--- U	5.00	ug/L						
Bis(-2-Chloroethoxy)Methane	--- U	5.00	ug/L						
Bis(2-Chloroethyl)Ether	--- U	5.00	ug/L						
Bis(2-Chloroisopropyl)Ether	--- U	5.00	ug/L						
Bis(2-Ethylhexyl)Phthalate	--- U	5.00	ug/L						

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310011									
Blank (B310011-BLK1)									
Butylbenzylphthalate	--- U	5.00	ug/L						
Azobenzene	--- U	5.00	ug/L						
Diethylphthalate	--- U	5.00	ug/L						
Dimethyl Phthalate	--- U	5.00	ug/L						
Di-N-Butyl Phthalate	--- U	5.00	ug/L						
Di-N-Octyl Phthalate	--- U	5.00	ug/L						
Hexachlorobenzene	--- U	5.00	ug/L						
Hexachlorobutadiene	--- U	2.00	ug/L						
Hexachlorocyclopentadiene	--- U	5.00	ug/L						
Hexachloroethane	--- U	5.00	ug/L						
Isophorone	--- U	5.00	ug/L						
Nitrobenzene	--- U	5.00	ug/L						
N-Nitrosodimethylamine	--- U	5.00	ug/L						
N-Nitroso-Di-N-Propylamine	--- U	5.00	ug/L						
N-Nitrosodiphenylamine	--- U	5.00	ug/L						
Pentachlorophenol	--- U	5.00	ug/L						
Phenol	--- U	2.00	ug/L						
Pyrene	--- U	5.00	ug/L						
Surrogate: 2-Fluoroaniline	*ND*		ug/L	*50.00*		*45.7*	*60-140*		
Surrogate: Phenol-D6	*ND*		ug/L	*50.00*		*21.5*	*60-140*		
Surrogate: Naphthalene-D8	*ND*		ug/L	*50.00*		*41.5*	*60-140*		
Surrogate: 1-Fluoronaphthalene	*ND*		ug/L	*50.00*		*40.2*	*60-140*		
Surrogate: 2,4-Dibromophenol	*ND*		ug/L	*50.00*		*13.6*	*60-140*		
Surrogate: Anthracene-D10	*32.2*		ug/L	*50.00*		*64.4*	*60-140*		
Surrogate: Chrysene-D12	*32.6*		ug/L	*50.00*		*65.2*	*60-140*		
LCS (B310011-BS1)									
Acenaphthene	39.8	5.00	ug/L	50.00		79.5	47-145		
Acenaphthylene	37.6	5.00	ug/L	50.00		75.2	33-145		
Anthracene	43.3	5.00	ug/L	50.00		86.6	27-133		
Benzo(A)Anthracene	45.2	5.00	ug/L	50.00		90.4	33-143		
Benzo(A)Pyrene	46.3	5.00	ug/L	50.00		92.5	17-163		
Benzo(B)Fluoranthene	47.3	5.00	ug/L	50.00		94.7	24-159		
Benzo(G,H,I)Perylene	50.3	5.00	ug/L	50.00		101	35-219		
Benzo(K)Fluoranthene	47.4	5.00	ug/L	50.00		94.8	11-162		

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310011									
LCS (B310011-BS1)									
Chrysene	44.7	5.00	ug/L	50.00		89.4	17-168		
Dibenzo(A,H)Anthracene	47.8	5.00	ug/L	50.00		95.6	33-227		
Fluoranthene	44.2	5.00	ug/L	50.00		88.4	26-137		
Fluorene	42.1	5.00	ug/L	50.00		84.3	59-121		
Indeno(1,2,3-Cd)Pyrene	50.5	5.00	ug/L	50.00		101	39-171		
Naphthalene	36.3	5.00	ug/L	50.00		72.7	21-133		
Phenanthrene	44.0	5.00	ug/L	50.00		88.0	54-120		
1,2,4-Trichlorobenzene	33.1	5.00	ug/L	50.00		66.1	44-142		
2,4,6-Trichlorophenol	30.0	5.00	ug/L	50.00		59.9	37-144		
2,4-Dichlorophenol	35.3	5.00	ug/L	50.00		70.6	39-135		
2,4-Dimethylphenol	40.7	5.00	ug/L	50.00		81.4	32-120		
2,4-Dinitrotoluene	46.9	5.00	ug/L	50.00		93.8	39-139		
2,6-Dinitrotoluene	45.1	5.00	ug/L	50.00		90.2	50-158		
2,4-Dinitrophenol	4.37	5.00	ug/L	50.00		8.74	21-191		
2-Chloronaphthalene	38.0	5.00	ug/L	50.00		76.0	60-120		
2-Chlorophenol	35.1	5.00	ug/L	50.00		70.1	23-134		
2-Nitrophenol	3.61	5.00	ug/L	50.00		7.22	29-182		
3,3'- Dichlorobenzidine	50.8	5.00	ug/L	50.00		102	38-262		
4,6-Dinitro-2-Methylphenol	27.4	5.00	ug/L	50.00		54.8	17-181		
4-Bromophenyl-Phenylether	43.6	5.00	ug/L	50.00		87.2	53-127		
4-Chloro-3-Methylphenol	41.3	5.00	ug/L	50.00		82.7	22-147		
4-Chlorophenyl-Phenylether	41.9	5.00	ug/L	50.00		83.8	25-158		
4-Nitrophenol	16.0	5.00	ug/L	50.00		32.1	9-132		
Bis(-2-Chloroethoxy)Methane	38.5	5.00	ug/L	50.00		77.1	33-184		
Bis(2-Chloroethyl)Ether	36.6	5.00	ug/L	50.00		73.2	12-158		
Bis(2-Chloroisopropyl)Ether	35.1	5.00	ug/L	50.00		70.2	36-166		
Bis(2-Ethylhexyl)Phthalate	52.2	5.00	ug/L	50.00		104	8-158		
Butylbenzylphthalate	44.9	5.00	ug/L	50.00		89.8	38-152		
Azobenzene	45.2	5.00	ug/L	50.00		90.5	60-115		
Diethylphthalate	44.3	5.00	ug/L	50.00		88.6	31-114		
Dimethyl Phthalate	38.9	5.00	ug/L	50.00		77.7	28-120		
Di-N-Butyl Phthalate	47.2	5.00	ug/L	50.00		94.5	1-120		
Di-N-Octyl Phthalate	50.7	5.00	ug/L	50.00		101	4-146		
Hexachlorobenzene	43.0	5.00	ug/L	50.00		86.0	35-152		
Hexachlorobutadiene	32.8	2.00	ug/L	50.00		65.5	24-120		

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310011									
LCS (B310011-BS1)									
Hexachlorocyclopentadiene	34.3	5.00	ug/L	50.00		68.6	15-76		
Hexachloroethane	31.2	5.00	ug/L	50.00		62.5	40-120		
Isophorone	44.4	5.00	ug/L	50.00		88.8	21-196		
Nitrobenzene	40.5	5.00	ug/L	50.00		81.0	35-180		
N-Nitrosodimethylamine	25.2	5.00	ug/L	50.00		50.5	17-127		
N-Nitroso-Di-N-Propylamine	40.5	5.00	ug/L	50.00		81.0	43-230		
N-Nitrosodiphenylamine	52.4	5.00	ug/L	50.00		105	79-139		
Pentachlorophenol	--- U	5.00	ug/L	50.00			14-176		
Phenol	17.1	2.00	ug/L	50.00		34.2	5-120		
Pyrene	43.3	5.00	ug/L	50.00		86.6	52-120		
Surrogate: 2-Fluoroaniline	*32.4*		ug/L	*50.00*		*64.7*	*60-140*		
Surrogate: Phenol-D6	*14.9*		ug/L	*50.00*		*29.8*	*60-140*		
Surrogate: Naphthalene-D8	*31.5*		ug/L	*50.00*		*62.9*	*60-140*		
Surrogate: 1-Fluoronaphthalene	*30.9*		ug/L	*50.00*		*61.9*	*60-140*		
Surrogate: 2,4-Dibromophenol	*32.8*		ug/L	*50.00*		*65.6*	*60-140*		
Surrogate: Anthracene-D10	*40.3*		ug/L	*50.00*		*80.6*	*60-140*		
Surrogate: Chrysene-D12	*40.0*		ug/L	*50.00*		*79.9*	*60-140*		
LCS Dup (B310011-BSD1)									
Acenaphthene	39.3	5.00	ug/L	50.00		78.6	47-145	1.16	30
Acenaphthylene	36.7	5.00	ug/L	50.00		73.4	33-145	2.34	30
Anthracene	45.5	5.00	ug/L	50.00		91.0	27-133	4.91	30
Benzo(A)Anthracene	46.7	5.00	ug/L	50.00		93.3	33-143	3.22	30
Benzo(A)Pyrene	47.2	5.00	ug/L	50.00		94.4	17-163	1.97	30
Benzo(B)Fluoranthene	50.0	5.00	ug/L	50.00		100	24-159	5.47	30
Benzo(G,H,I)Perylene	50.9	5.00	ug/L	50.00		102	35-219	1.23	30
Benzo(K)Fluoranthene	47.9	5.00	ug/L	50.00		95.8	11-162	1.05	30
Chrysene	45.6	5.00	ug/L	50.00		91.1	17-168	1.91	30
Dibenzo(A,H)Anthracene	49.0	5.00	ug/L	50.00		97.9	33-227	2.46	30
Fluoranthene	44.7	5.00	ug/L	50.00		89.3	26-137	1.08	30
Fluorene	47.7	5.00	ug/L	50.00		95.4	59-121	12.4	30
Indeno(1,2,3-Cd)Pyrene	52.3	5.00	ug/L	50.00		105	39-171	3.44	30
Naphthalene	35.1	5.00	ug/L	50.00		70.3	21-133	3.36	30
Phenanthrene	46.6	5.00	ug/L	50.00		93.2	54-120	5.74	30
1,2,4-Trichlorobenzene	31.5	5.00	ug/L	50.00		63.0	44-142	4.86	30

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310011									
LCS Dup (B310011-BSD1)									
2,4,6-Trichlorophenol	31.0	5.00	ug/L	50.00		62.1	37-144	3.51	30
2,4-Dichlorophenol	36.6	5.00	ug/L	50.00		73.2	39-135	3.64	30
2,4-Dimethylphenol	36.7	5.00	ug/L	50.00		73.3	32-120	10.4	30
2,4-Dinitrotoluene	51.7	5.00	ug/L	50.00		103	39-139	9.69	30
2,6-Dinitrotoluene	43.6	5.00	ug/L	50.00		87.3	50-158	3.36	30
2,4-Dinitrophenol	3.01	5.00	ug/L	50.00		6.02	21-191	36.9	30
2-Chloronaphthalene	36.9	5.00	ug/L	50.00		73.8	60-120	2.83	30
2-Chlorophenol	36.8	5.00	ug/L	50.00		73.7	23-134	4.95	30
2-Nitrophenol	6.52	5.00	ug/L	50.00		13.0	29-182	57.5	30
3,3'- Dichlorobenzidine	52.0	5.00	ug/L	50.00		104	38-262	2.20	30
4,6-Dinitro-2-Methylphenol	25.2	5.00	ug/L	50.00		50.3	17-181	8.41	30
4-Bromophenyl-Phenylether	47.7	5.00	ug/L	50.00		95.5	53-127	9.09	30
4-Chloro-3-Methylphenol	42.1	5.00	ug/L	50.00		84.3	22-147	1.94	30
4-Chlorophenyl-Phenylether	47.9	5.00	ug/L	50.00		95.8	25-158	13.3	30
4-Nitrophenol	13.1	5.00	ug/L	50.00		26.3	9-132	19.8	30
Bis(-2-Chloroethoxy)Methane	39.3	5.00	ug/L	50.00		78.6	33-184	1.93	30
Bis(2-Chloroethyl)Ether	37.8	5.00	ug/L	50.00		75.6	12-158	3.23	30
Bis(2-Chloroisopropyl)Ether	35.9	5.00	ug/L	50.00		71.9	36-166	2.28	30
Bis(2-Ethylhexyl)Phthalate	53.8	5.00	ug/L	50.00		108	8-158	2.91	30
Butylbenzylphthalate	46.2	5.00	ug/L	50.00		92.4	38-152	2.83	30
Azobenzene	49.4	5.00	ug/L	50.00		98.9	60-115	8.87	30
Diethylphthalate	47.1	5.00	ug/L	50.00		94.1	31-114	6.06	30
Dimethyl Phthalate	34.2	5.00	ug/L	50.00		68.5	28-120	12.7	30
Di-N-Butyl Phthalate	48.0	5.00	ug/L	50.00		96.0	1-120	1.60	30
Di-N-Octyl Phthalate	52.1	5.00	ug/L	50.00		104	4-146	2.67	30
Hexachlorobenzene	45.7	5.00	ug/L	50.00		91.5	35-152	6.13	30
Hexachlorobutadiene	30.2	2.00	ug/L	50.00		60.3	24-120	8.26	30
Hexachlorocyclopentadiene	30.1	5.00	ug/L	50.00		60.1	15-76	13.1	30
Hexachloroethane	29.8	5.00	ug/L	50.00		59.6	40-120	4.75	30
Isophorone	45.8	5.00	ug/L	50.00		91.7	21-196	3.21	30
Nitrobenzene	39.8	5.00	ug/L	50.00		79.6	35-180	1.74	30
N-Nitrosodimethylamine	27.1	5.00	ug/L	50.00		54.1	17-127	7.00	30
N-Nitroso-Di-N-Propylamine	41.3	5.00	ug/L	50.00		82.6	43-230	1.93	30
N-Nitrosodiphenylamine	57.2	5.00	ug/L	50.00		114	79-139	8.85	30
Pentachlorophenol	--- U	5.00	ug/L	50.00			14-176		30

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310011									
LCS Dup (B310011-BSD1)									
Phenol	18.4	2.00	ug/L	50.00		36.8	5-120	7.26	30
Pyrene	44.2	5.00	ug/L	50.00		88.4	52-120	2.10	30
Surrogate: 2-Fluoroaniline	*33.9*		ug/L	*50.00*		*67.9*	*60-140*		
Surrogate: Phenol-D6	*16.1*		ug/L	*50.00*		*32.2*	*60-140*		
Surrogate: Naphthalene-D8	*30.6*		ug/L	*50.00*		*61.1*	*60-140*		
Surrogate: 1-Fluoronaphthalene	*30.2*		ug/L	*50.00*		*60.5*	*60-140*		
Surrogate: 2,4-Dibromophenol	*33.1*		ug/L	*50.00*		*66.3*	*60-140*		
Surrogate: Anthracene-D10	*42.1*		ug/L	*50.00*		*84.2*	*60-140*		
Surrogate: Chrysene-D12	*40.9*		ug/L	*50.00*		*81.7*	*60-140*		
Matrix Spike (B310011-MS1)	**Source: 2309020-02**								
Acenaphthene	33.3	5.05	ug/L	50.51	ND	66.0	47-145		
Acenaphthylene	33.1	5.05	ug/L	50.51	ND	65.5	33-145		
Anthracene	35.5	5.05	ug/L	50.51	ND	70.2	27-133		
Benzo(A)Anthracene	38.6	5.05	ug/L	50.51	ND	76.5	33-143		
Benzo(A)Pyrene	38.0	5.05	ug/L	50.51	ND	75.3	17-163		
Benzo(B)Fluoranthene	37.9	5.05	ug/L	50.51	ND	75.0	24-159		
Benzo(G,H,I)Perylene	35.2	5.05	ug/L	50.51	ND	69.7	35-219		
Benzo(K)Fluoranthene	38.2	5.05	ug/L	50.51	ND	75.7	11-162		
Chrysene	38.5	5.05	ug/L	50.51	ND	76.3	17-168		
Dibenzo(A,H)Anthracene	35.8	5.05	ug/L	50.51	ND	70.8	33-227		
Fluoranthene	35.6	5.05	ug/L	50.51	ND	70.5	26-137		
Fluorene	36.7	5.05	ug/L	50.51	ND	72.6	59-121		
Indeno(1,2,3-Cd)Pyrene	36.7	5.05	ug/L	50.51	ND	72.8	39-171		
Naphthalene	22.5	5.05	ug/L	50.51	ND	44.6	21-133		
Phenanthrene	36.3	5.05	ug/L	50.51	ND	71.8	54-120		
1,2,4-Trichlorobenzene	20.2	5.05	ug/L	50.51	ND	40.1	44-142		
2,4,6-Trichlorophenol	27.2	5.05	ug/L	50.51	ND	53.9	37-144		
2,4-Dichlorophenol	26.2	5.05	ug/L	50.51	ND	51.9	39-135		
2,4-Dimethylphenol	24.2	5.05	ug/L	50.51	ND	48.0	32-120		
2,4-Dinitrotoluene	37.3	5.05	ug/L	50.51	ND	73.9	39-139		
2,6-Dinitrotoluene	35.0	5.05	ug/L	50.51	ND	69.3	50-158		
2,4-Dinitrophenol	9.92	5.05	ug/L	50.51	ND	19.6	21-191		
2-Chloronaphthalene	29.6	5.05	ug/L	50.51	ND	58.6	60-120		
2-Chlorophenol	20.9	5.05	ug/L	50.51	ND	41.4	23-134		

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310011									
Matrix Spike (B310011-MS1)	**Source: 2309020-02**								
2-Nitrophenol	--- U	5.05	ug/L	50.51	ND		29-182		
3,3'- Dichlorobenzidine	38.0	5.05	ug/L	50.51	ND	75.3	38-262		
4,6-Dinitro-2-Methylphenol	24.2	5.05	ug/L	50.51	ND	47.9	17-181		
4-Bromophenyl-Phenylether	37.6	5.05	ug/L	50.51	ND	74.4	53-127		
4-Chloro-3-Methylphenol	34.8	5.05	ug/L	50.51	ND	69.0	22-147		
4-Chlorophenyl-Phenylether	36.9	5.05	ug/L	50.51	ND	73.0	25-158		
4-Nitrophenol	13.4	5.05	ug/L	50.51	ND	26.5	9-132		
Bis(-2-Chloroethoxy)Methane	28.2	5.05	ug/L	50.51	ND	55.8	33-184		
Bis(2-Chloroethyl)Ether	22.7	5.05	ug/L	50.51	ND	44.9	12-158		
Bis(2-Chloroisopropyl)Ether	23.1	5.05	ug/L	50.51	ND	45.8	36-166		
Bis(2-Ethylhexyl)Phthalate	43.9	5.05	ug/L	50.51	ND	87.0	8-158		
Butylbenzylphthalate	37.5	5.05	ug/L	50.51	ND	74.2	38-152		
Azobenzene	39.1	5.05	ug/L	50.51	ND	77.3	61-106		
Diethylphthalate	37.7	5.05	ug/L	50.51	ND	74.6	31-114		
Dimethyl Phthalate	34.3	5.05	ug/L	50.51	ND	68.0	28-120		
Di-N-Butyl Phthalate	38.4	5.05	ug/L	50.51	ND	76.1	1-120		
Di-N-Octyl Phthalate	42.3	5.05	ug/L	50.51	ND	83.7	4-146		
Hexachlorobenzene	35.5	5.05	ug/L	50.51	ND	70.3	35-152		
Hexachlorobutadiene	18.8	2.02	ug/L	50.51	ND	37.2	24-120		
Hexachlorocyclopentadiene	16.4	5.05	ug/L	50.51	ND	32.4	15-76		
Hexachloroethane	15.9	5.05	ug/L	50.51	ND	31.4	40-120		
Isophorone	33.4	5.05	ug/L	50.51	ND	66.0	21-196		
Nitrobenzene	26.5	5.05	ug/L	50.51	ND	52.4	35-180		
N-Nitrosodimethylamine	15.6	5.05	ug/L	50.51	ND	30.9	17-127		
N-Nitroso-Di-N-Propylamine	30.3	5.05	ug/L	50.51	ND	59.9	43-230		
N-Nitrosodiphenylamine	36.9	5.05	ug/L	50.51	ND	73.0	79-139		
Pentachlorophenol	9.28	5.05	ug/L	50.51	ND	18.4	14-176		
Phenol	12.4	2.02	ug/L	50.51	ND	24.5	5-120		
Pyrene	35.1	5.05	ug/L	50.51	ND	69.5	52-120		
Surrogate: 2-Fluoroaniline	*20.0*		ug/L	*50.51*		*39.6*	*60-140*		
Surrogate: Phenol-D6	*10.8*		ug/L	*50.51*		*21.3*	*60-140*		
Surrogate: Naphthalene-D8	*21.9*		ug/L	*50.51*		*43.3*	*60-140*		
Surrogate: 1-Fluoronaphthalene	*21.3*		ug/L	*50.51*		*42.1*	*60-140*		
Surrogate: 2,4-Dibromophenol	*28.7*		ug/L	*50.51*		*56.7*	*60-140*		
Surrogate: Anthracene-D10	*33.0*		ug/L	*50.51*		*65.4*	*60-140*		

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310011									
Matrix Spike (B310011-MS1)		**Source: 2309020-02**							
Surrogate: Chrysene-D12	*34.0*		ug/L	*50.51*		*67.4*	*60-140*		
Matrix Spike (B310011-MS2)		**Source: 2309043-01**							
Acenaphthene	38.3	5.56	ug/L	55.56	ND	68.9	47-145		
Acenaphthylene	37.9	5.56	ug/L	55.56	ND	68.2	33-145		
Anthracene	45.4	5.56	ug/L	55.56	ND	81.8	27-133		
Benzo(A)Anthracene	45.6	5.56	ug/L	55.56	ND	82.0	33-143		
Benzo(A)Pyrene	49.3	5.56	ug/L	55.56	ND	88.7	17-163		
Benzo(B)Fluoranthene	47.3	5.56	ug/L	55.56	ND	85.1	24-159		
Benzo(G,H,I)Perylene	51.2	5.56	ug/L	55.56	ND	92.2	35-219		
Benzo(K)Fluoranthene	49.0	5.56	ug/L	55.56	ND	88.2	11-162		
Chrysene	45.6	5.56	ug/L	55.56	ND	82.0	17-168		
Dibenzo(A,H)Anthracene	50.9	5.56	ug/L	55.56	ND	91.7	33-227		
Fluoranthene	44.9	5.56	ug/L	55.56	ND	80.8	26-137		
Fluorene	46.0	5.56	ug/L	55.56	ND	82.8	59-121		
Indeno(1,2,3-Cd)Pyrene	54.1	5.56	ug/L	55.56	ND	97.3	39-171		
Naphthalene	28.7	5.56	ug/L	55.56	ND	51.7	21-133		
Phenanthrene	47.0	5.56	ug/L	55.56	ND	84.6	54-120		
1,2,4-Trichlorobenzene	26.2	5.56	ug/L	55.56	ND	47.2	44-142		
2,4,6-Trichlorophenol	38.1	5.56	ug/L	55.56	ND	68.6	37-144		
2,4-Dichlorophenol	34.2	5.56	ug/L	55.56	ND	61.5	39-135		
2,4-Dimethylphenol	32.1	5.56	ug/L	55.56	ND	57.8	32-120		
2,4-Dinitrotoluene	50.8	5.56	ug/L	55.56	ND	91.4	39-139		
2,6-Dinitrotoluene	41.4	5.56	ug/L	55.56	ND	74.6	50-158		
2,4-Dinitrophenol	22.2	5.56	ug/L	55.56	ND	39.9	21-191		
2-Chloronaphthalene	34.9	5.56	ug/L	55.56	ND	62.8	60-120		
2-Chlorophenol	28.4	5.56	ug/L	55.56	ND	51.1	23-134		
2-Nitrophenol	7.80	5.56	ug/L	55.56	ND	14.0	29-182		
3,3'- Dichlorobenzidine	41.2	5.56	ug/L	55.56	ND	74.1	38-262		
4,6-Dinitro-2-Methylphenol	40.9	5.56	ug/L	55.56	ND	73.6	17-181		
4-Bromophenyl-Phenylether	47.6	5.56	ug/L	55.56	ND	85.6	53-127		
4-Chloro-3-Methylphenol	41.7	5.56	ug/L	55.56	ND	75.1	22-147		
4-Chlorophenyl-Phenylether	45.7	5.56	ug/L	55.56	ND	82.3	25-158		
4-Nitrophenol	20.5	5.56	ug/L	55.56	ND	36.8	9-132		
Bis(-2-Chloroethoxy)Methane	34.4	5.56	ug/L	55.56	ND	61.9	33-184		

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310011									
Matrix Spike (B310011-MS2)	**Source: 2309043-01**								
Bis(2-Chloroethyl)Ether	30.6	5.56	ug/L	55.56	ND	55.0	12-158		
Bis(2-Chloroisopropyl)Ether	31.6	5.56	ug/L	55.56	ND	57.0	36-166		
Bis(2-Ethylhexyl)Phthalate	54.1	5.56	ug/L	55.56	ND	97.4	8-158		
Butylbenzylphthalate	48.1	5.56	ug/L	55.56	ND	86.6	38-152		
Azobenzene	48.5	5.56	ug/L	55.56	ND	87.3	61-106		
Diethylphthalate	46.7	5.56	ug/L	55.56	ND	84.1	31-114		
Dimethyl Phthalate	33.3	5.56	ug/L	55.56	ND	60.0	28-120		
Di-N-Butyl Phthalate	50.0	5.56	ug/L	55.56	ND	90.0	1-120		
Di-N-Octyl Phthalate	54.6	5.56	ug/L	55.56	ND	98.3	4-146		
Hexachlorobenzene	47.3	5.56	ug/L	55.56	ND	85.1	35-152		
Hexachlorobutadiene	25.2	2.22	ug/L	55.56	ND	45.4	24-120		
Hexachlorocyclopentadiene	21.8	5.56	ug/L	55.56	ND	39.2	15-76		
Hexachloroethane	21.1	5.56	ug/L	55.56	ND	38.0	40-120		
Isophorone	39.8	5.56	ug/L	55.56	ND	71.6	21-196		
Nitrobenzene	33.2	5.56	ug/L	55.56	ND	59.7	35-180		
N-Nitrosodimethylamine	20.5	5.56	ug/L	55.56	ND	36.9	17-127		
N-Nitroso-Di-N-Propylamine	36.9	5.56	ug/L	55.56	ND	66.4	43-230		
N-Nitrosodiphenylamine	48.1	5.56	ug/L	55.56	ND	86.7	79-139		
Pentachlorophenol	23.0	5.56	ug/L	55.56	ND	41.5	14-176		
Phenol	15.5	2.22	ug/L	55.56	ND	27.9	5-120		
Pyrene	44.2	5.56	ug/L	55.56	ND	79.6	52-120		
Surrogate: 2-Fluoroaniline	*25.9*		ug/L	*55.56*		*46.7*	*60-140*		
Surrogate: Phenol-D6	*13.5*		ug/L	*55.56*		*24.3*	*60-140*		
Surrogate: Naphthalene-D8	*27.5*		ug/L	*55.56*		*49.6*	*60-140*		
Surrogate: 1-Fluoronaphthalene	*27.3*		ug/L	*55.56*		*49.2*	*60-140*		
Surrogate: 2,4-Dibromophenol	*34.6*		ug/L	*55.56*		*62.4*	*60-140*		
Surrogate: Anthracene-D10	*42.9*		ug/L	*55.56*		*77.2*	*60-140*		
Surrogate: Chrysene-D12	*40.4*		ug/L	*55.56*		*72.8*	*60-140*		

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310011									
Matrix Spike Dup (B310011-MSD1)	**Source: 2309020-02**								
Acenaphthene	41.6	5.05	ug/L	50.51	ND	82.3	47-145	22.0	24
Acenaphthylene	42.0	5.05	ug/L	50.51	ND	83.1	33-145	23.7	24
Anthracene	48.2	5.05	ug/L	50.51	ND	95.4	27-133	30.4	24
Benzo(A)Anthracene	50.6	5.05	ug/L	50.51	ND	100	33-143	26.7	24
Benzo(A)Pyrene	51.5	5.05	ug/L	50.51	ND	102	17-163	30.1	24
Benzo(B)Fluoranthene	50.8	5.05	ug/L	50.51	ND	101	24-159	29.2	24
Benzo(G,H,I)Perylene	49.4	5.05	ug/L	50.51	ND	97.9	35-219	33.7	24
Benzo(K)Fluoranthene	51.8	5.05	ug/L	50.51	ND	102	11-162	30.0	24
Chrysene	50.1	5.05	ug/L	50.51	ND	99.2	17-168	26.2	24
Dibenzo(A,H)Anthracene	50.0	5.05	ug/L	50.51	ND	99.0	33-227	33.1	24
Fluoranthene	48.4	5.05	ug/L	50.51	ND	95.7	26-137	30.4	24
Fluorene	51.2	5.05	ug/L	50.51	ND	101	59-121	33.0	24
Indeno(1,2,3-Cd)Pyrene	52.8	5.05	ug/L	50.51	ND	105	39-171	35.8	24
Naphthalene	33.5	5.05	ug/L	50.51	ND	66.2	21-133	39.0	24
Phenanthrene	50.2	5.05	ug/L	50.51	ND	99.4	54-120	32.2	24
1,2,4-Trichlorobenzene	28.7	5.05	ug/L	50.51	ND	56.9	44-142	34.8	24
2,4,6-Trichlorophenol	39.4	5.05	ug/L	50.51	ND	78.0	37-144	36.5	24
2,4-Dichlorophenol	38.7	5.05	ug/L	50.51	ND	76.7	39-135	38.5	24
2,4-Dimethylphenol	28.7	5.05	ug/L	50.51	ND	56.8	32-120	16.8	24
2,4-Dinitrotoluene	55.8	5.05	ug/L	50.51	ND	111	39-139	39.8	24
2,6-Dinitrotoluene	45.4	5.05	ug/L	50.51	ND	89.9	50-158	25.9	24
2,4-Dinitrophenol	18.0	5.05	ug/L	50.51	ND	35.6	21-191	57.8	24
2-Chloronaphthalene	39.3	5.05	ug/L	50.51	ND	77.8	60-120	28.2	24
2-Chlorophenol	28.3	5.05	ug/L	50.51	ND	55.9	23-134	29.9	24
2-Nitrophenol	10.6	5.05	ug/L	50.51	ND	21.0	29-182		24
3,3'- Dichlorobenzidine	45.2	5.05	ug/L	50.51	ND	89.5	38-262	17.2	24
4,6-Dinitro-2-Methylphenol	39.0	5.05	ug/L	50.51	ND	77.2	17-181	46.8	24
4-Bromophenyl-Phenylether	50.9	5.05	ug/L	50.51	ND	101	53-127	30.0	24
4-Chloro-3-Methylphenol	45.1	5.05	ug/L	50.51	ND	89.3	22-147	25.7	24
4-Chlorophenyl-Phenylether	50.4	5.05	ug/L	50.51	ND	99.8	25-158	31.0	24
4-Nitrophenol	18.2	5.05	ug/L	50.51	ND	36.0	9-132	30.4	24
Bis(-2-Chloroethoxy)Methane	42.5	5.05	ug/L	50.51	ND	84.1	33-184	40.5	24
Bis(2-Chloroethyl)Ether	32.3	5.05	ug/L	50.51	ND	64.0	12-158	35.0	24
Bis(2-Chloroisopropyl)Ether	35.1	5.05	ug/L	50.51	ND	69.4	36-166	41.1	24
Bis(2-Ethylhexyl)Phthalate	57.8	5.05	ug/L	50.51	ND	114	8-158	27.3	24

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310011									
Matrix Spike Dup (B310011-MSD1)	**Source: 2309020-02**								
Butylbenzylphthalate	50.8	5.05	ug/L	50.51	ND	101	38-152	30.2	24
Azobenzene	53.5	5.05	ug/L	50.51	ND	106	61-106	31.2	24
Diethylphthalate	52.0	5.05	ug/L	50.51	ND	103	31-114	32.0	24
Dimethyl Phthalate	41.6	5.05	ug/L	50.51	ND	82.4	28-120	19.2	24
Di-N-Butyl Phthalate	51.8	5.05	ug/L	50.51	ND	103	1-120	29.6	24
Di-N-Octyl Phthalate	57.1	5.05	ug/L	50.51	ND	113	4-146	29.8	24
Hexachlorobenzene	49.3	5.05	ug/L	50.51	ND	97.5	35-152	32.4	24
Hexachlorobutadiene	25.9	2.02	ug/L	50.51	ND	51.3	24-120	31.9	24
Hexachlorocyclopentadiene	24.5	5.05	ug/L	50.51	ND	48.5	15-76	39.8	24
Hexachloroethane	17.0	5.05	ug/L	50.51	ND	33.7	40-120	6.88	24
Isophorone	46.9	5.05	ug/L	50.51	ND	92.9	21-196	33.8	24
Nitrobenzene	39.9	5.05	ug/L	50.51	ND	79.0	35-180	40.4	24
N-Nitrosodimethylamine	17.0	5.05	ug/L	50.51	ND	33.6	17-127	8.43	24
N-Nitroso-Di-N-Propylamine	45.1	5.05	ug/L	50.51	ND	89.2	43-230	39.3	24
N-Nitrosodiphenylamine	51.1	5.05	ug/L	50.51	ND	101	79-139	32.4	24
Pentachlorophenol	19.2	5.05	ug/L	50.51	ND	37.9	14-176	69.5	24
Phenol	17.4	2.02	ug/L	50.51	ND	34.5	5-120	33.6	24
Pyrene	47.5	5.05	ug/L	50.51	ND	94.0	52-120	29.9	24
Surrogate: 2-Fluoroaniline	*25.8*		ug/L	*50.51*		*51.1*	*60-140*		
Surrogate: Phenol-D6	*15.1*		ug/L	*50.51*		*29.8*	*60-140*		
Surrogate: Naphthalene-D8	*32.4*		ug/L	*50.51*		*64.1*	*60-140*		
Surrogate: 1-Fluoronaphthalene	*31.3*		ug/L	*50.51*		*62.0*	*60-140*		
Surrogate: 2,4-Dibromophenol	*37.5*		ug/L	*50.51*		*74.3*	*60-140*		
Surrogate: Anthracene-D10	*46.4*		ug/L	*50.51*		*92.0*	*60-140*		
Surrogate: Chrysene-D12	*45.8*		ug/L	*50.51*		*90.7*	*60-140*		
Matrix Spike Dup (B310011-MSD2)	**Source: 2309043-01**								
Acenaphthene	36.5	5.62	ug/L	56.18	ND	65.0	47-145	4.83	24
Acenaphthylene	36.3	5.62	ug/L	56.18	ND	64.7	33-145	4.09	24
Anthracene	48.1	5.62	ug/L	56.18	ND	85.7	27-133	5.77	24
Benzo(A)Anthracene	49.1	5.62	ug/L	56.18	ND	87.4	33-143	7.44	24
Benzo(A)Pyrene	49.8	5.62	ug/L	56.18	ND	88.6	17-163	1.05	24
Benzo(B)Fluoranthene	49.6	5.62	ug/L	56.18	ND	88.3	24-159	4.74	24
Benzo(G,H,I)Perylene	49.1	5.62	ug/L	56.18	ND	87.4	35-219	4.27	24
Benzo(K)Fluoranthene	50.6	5.62	ug/L	56.18	ND	90.1	11-162	3.34	24

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310011									
Matrix Spike Dup (B310011-MSD2)	**Source: 2309043-01**								
Chrysene	49.3	5.62	ug/L	56.18	ND	87.8	17-168	7.90	24
Dibenzo(A,H)Anthracene	49.2	5.62	ug/L	56.18	ND	87.5	33-227	3.50	24
Fluoranthene	46.1	5.62	ug/L	56.18	ND	82.0	26-137	2.59	24
Fluorene	50.3	5.62	ug/L	56.18	ND	89.6	59-121	8.91	24
Indeno(1,2,3-Cd)Pyrene	50.2	5.62	ug/L	56.18	ND	89.3	39-171	7.43	24
Naphthalene	25.6	5.62	ug/L	56.18	ND	45.6	21-133	11.4	24
Phenanthrene	50.1	5.62	ug/L	56.18	ND	89.3	54-120	6.52	24
1,2,4-Trichlorobenzene	22.6	5.62	ug/L	56.18	ND	40.3	44-142	14.7	24
2,4,6-Trichlorophenol	37.8	5.62	ug/L	56.18	ND	67.2	37-144	0.915	24
2,4-Dichlorophenol	33.1	5.62	ug/L	56.18	ND	58.9	39-135	3.24	24
2,4-Dimethylphenol	25.7	5.62	ug/L	56.18	ND	45.8	32-120	22.2	24
2,4-Dinitrotoluene	56.6	5.62	ug/L	56.18	ND	101	39-139	10.8	24
2,6-Dinitrotoluene	42.1	5.62	ug/L	56.18	ND	74.9	50-158	1.57	24
2,4-Dinitrophenol	22.3	5.62	ug/L	56.18	ND	39.6	21-191	0.363	24
2-Chloronaphthalene	32.6	5.62	ug/L	56.18	ND	58.0	60-120	6.96	24
2-Chlorophenol	24.0	5.62	ug/L	56.18	ND	42.7	23-134	16.7	24
2-Nitrophenol	8.39	5.62	ug/L	56.18	ND	14.9	29-182	7.33	24
3,3'- Dichlorobenzidine	41.1	5.62	ug/L	56.18	ND	73.2	38-262	0.159	24
4,6-Dinitro-2-Methylphenol	44.0	5.62	ug/L	56.18	ND	78.2	17-181	7.28	24
4-Bromophenyl-Phenylether	51.7	5.62	ug/L	56.18	ND	92.1	53-127	8.36	24
4-Chloro-3-Methylphenol	41.6	5.62	ug/L	56.18	ND	74.0	22-147	0.331	24
4-Chlorophenyl-Phenylether	50.2	5.62	ug/L	56.18	ND	89.3	25-158	9.37	24
4-Nitrophenol	20.4	5.62	ug/L	56.18	ND	36.4	9-132	0.0299	24
Bis(-2-Chloroethoxy)Methane	33.1	5.62	ug/L	56.18	ND	59.0	33-184	3.68	24
Bis(2-Chloroethyl)Ether	25.2	5.62	ug/L	56.18	ND	44.9	12-158	19.1	24
Bis(2-Chloroisopropyl)Ether	27.6	5.62	ug/L	56.18	ND	49.2	36-166	13.6	24
Bis(2-Ethylhexyl)Phthalate	59.2	5.62	ug/L	56.18	ND	105	8-158	8.97	24
Butylbenzylphthalate	47.6	5.62	ug/L	56.18	ND	84.7	38-152	1.05	24
Azobenzene	52.4	5.62	ug/L	56.18	ND	93.2	61-106	7.65	24
Diethylphthalate	51.2	5.62	ug/L	56.18	ND	91.2	31-114	9.20	24
Dimethyl Phthalate	31.7	5.62	ug/L	56.18	ND	56.5	28-120	4.93	24
Di-N-Butyl Phthalate	51.7	5.62	ug/L	56.18	ND	92.1	1-120	3.38	24
Di-N-Octyl Phthalate	59.8	5.62	ug/L	56.18	ND	106	4-146	9.01	24
Hexachlorobenzene	50.5	5.62	ug/L	56.18	ND	89.8	35-152	6.56	24
Hexachlorobutadiene	21.0	2.25	ug/L	56.18	ND	37.3	24-120	18.3	24

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Project: Corning Inc - 2309043

Project Number: 2309043

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310011									
Matrix Spike Dup (B310011-MSD2)	**Source: 2309043-01**								
Hexachlorocyclopentadiene	17.7	5.62	ug/L	56.18	ND	31.6	15-76	20.5	24
Hexachloroethane	15.6	5.62	ug/L	56.18	ND	27.8	40-120	29.9	24
Isophorone	39.0	5.62	ug/L	56.18	ND	69.4	21-196	1.95	24
Nitrobenzene	29.4	5.62	ug/L	56.18	ND	52.4	35-180	11.9	24
N-Nitrosodimethylamine	16.4	5.62	ug/L	56.18	ND	29.2	17-127	22.1	24
N-Nitroso-Di-N-Propylamine	35.7	5.62	ug/L	56.18	ND	63.5	43-230	3.35	24
N-Nitrosodiphenylamine	52.3	5.62	ug/L	56.18	ND	93.0	79-139	8.22	24
Pentachlorophenol	25.2	5.62	ug/L	56.18	ND	44.9	14-176	9.12	24
Phenol	14.7	2.25	ug/L	56.18	ND	26.1	5-120	5.69	24
Pyrene	45.2	5.62	ug/L	56.18	ND	80.5	52-120	2.29	24
Surrogate: 2-Fluoroaniline	*21.0*		ug/L	*56.18*		*37.4*	*60-140*		
Surrogate: Phenol-D6	*13.0*		ug/L	*56.18*		*23.2*	*60-140*		
Surrogate: Naphthalene-D8	*24.9*		ug/L	*56.18*		*44.3*	*60-140*		
Surrogate: 1-Fluoronaphthalene	*24.4*		ug/L	*56.18*		*43.4*	*60-140*		
Surrogate: 2,4-Dibromophenol	*34.2*		ug/L	*56.18*		*60.9*	*60-140*		
Surrogate: Anthracene-D10	*45.3*		ug/L	*56.18*		*80.6*	*60-140*		
Surrogate: Chrysene-D12	*43.9*		ug/L	*56.18*		*78.1*	*60-140*		

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Project Number: 2309043

GC - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310062									
Blank (B310062-BLK1)									
Oil & Grease	--- U	5.00	mg/L						
LCS (B310062-BS1)									
Oil & Grease	37.1	5.00	mg/L	40.00		92.8	78-114		
LCS Dup (B310062-BSD1)									
Oil & Grease	35.4	5.00	mg/L	40.00		88.5	78-114	4.69	20
Matrix Spike (B310062-MS1)	**Source: 2309020-03**								
Oil & Grease	47.0	6.17	mg/L	49.38	ND	95.2	78-114		
Matrix Spike (B310062-MS2)	**Source: 2309043-03**								
Oil & Grease	44.0	5.81	mg/L	46.51	3.20	87.7	78-114		

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Project Number: 2309043

Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B309146									
Blank (B309146-BLK1)									
Arsenic	--- U	8.00	ug/L						
Barium	--- U	100	ug/L						
Cadmium	--- U	3.00	ug/L						
Chromium	--- U	5.00	ug/L						
Copper	--- U	10.0	ug/L						
Lead	--- U	8.00	ug/L						
Nickel	--- U	20.0	ug/L						
Selenium	--- U	20.0	ug/L						
Silver	--- U	5.00	ug/L						
Zinc	--- U	20.0	ug/L						
LCS (B309146-BS1)									
Arsenic	199	8.00	ug/L	200.0		99.7	85-115		
Barium	202	100	ug/L	200.0		101	85-115		
Cadmium	198	3.00	ug/L	200.0		99.2	85-115		
Chromium	199	5.00	ug/L	200.0		99.7	85-115		
Copper	197	10.0	ug/L	200.0		98.3	85-115		
Lead	201	8.00	ug/L	200.0		100	85-115		
Nickel	200	20.0	ug/L	200.0		99.9	85-115		
Selenium	199	20.0	ug/L	200.0		99.4	85-115		
Silver	200	5.00	ug/L	200.0		99.8	85-115		
Zinc	204	20.0	ug/L	200.0		102	85-115		
LCS Dup (B309146-BSD1)									
Arsenic	198	8.00	ug/L	200.0		99.2	85-115	0.503	20
Barium	202	100	ug/L	200.0		101	85-115	0.0397	20
Cadmium	198	3.00	ug/L	200.0		99.2	85-115	0.0151	20
Chromium	199	5.00	ug/L	200.0		99.6	85-115	0.0903	20
Copper	196	10.0	ug/L	200.0		98.2	85-115	0.0763	20
Lead	201	8.00	ug/L	200.0		101	85-115	0.214	20
Nickel	200	20.0	ug/L	200.0		100	85-115	0.0550	20
Selenium	199	20.0	ug/L	200.0		99.4	85-115	0.0855	20
Silver	200	5.00	ug/L	200.0		99.9	85-115	0.0952	20
Zinc	204	20.0	ug/L	200.0		102	85-115	0.0734	20

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Project: Corning Inc - 2309043

Project Number: 2309043

Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B309146									
Matrix Spike (B309146-MS1)	**Source: 2309020-01**								
Cadmium	201	3.00	ug/L	200.0	0.750	100	80-120		
Chromium	200	5.00	ug/L	200.0	ND	100	80-120		
Lead	295	8.00	ug/L	200.0	92.6	101	80-120		
Zinc	302	20.0	ug/L	200.0	90.3	106	80-120		
Matrix Spike (B309146-MS2)	**Source: 2309043-08**								
Arsenic	205	8.00	ug/L	200.0	ND	103	80-120		
Barium	340	100	ug/L	200.0	142	98.9	80-120		
Cadmium	195	3.00	ug/L	200.0	ND	97.5	80-120		
Chromium	201	5.00	ug/L	200.0	2.34	99.2	80-120		
Copper	277	10.0	ug/L	200.0	78.8	99.2	80-120		
Lead	198	8.00	ug/L	200.0	ND	98.8	80-120		
Nickel	194	20.0	ug/L	200.0	2.83	95.8	80-120		
Selenium	201	20.0	ug/L	200.0	ND	101	80-120		
Silver	200	5.00	ug/L	200.0	ND	100	80-120		
Zinc	219	20.0	ug/L	200.0	19.7	99.7	80-120		
Matrix Spike Dup (B309146-MSD1)	**Source: 2309020-01**								
Cadmium	201	15.0	ug/L	200.0	ND	100	80-120	0.0796	10
Chromium	195	25.0	ug/L	200.0	ND	97.6	80-120	2.44	10
Lead	294	40.0	ug/L	200.0	92.6	101	80-120	0.258	10
Zinc	299	100	ug/L	200.0	90.3	104	80-120	1.15	10
Matrix Spike Dup (B309146-MSD2)	**Source: 2309043-08**								
Arsenic	204	40.0	ug/L	200.0	ND	102	80-120	0.773	10
Barium	337	500	ug/L	200.0	142	97.6	80-120	0.753	10
Cadmium	197	15.0	ug/L	200.0	ND	98.4	80-120	1.01	10
Chromium	199	25.0	ug/L	200.0	ND	99.6	80-120	0.740	10
Copper	271	50.0	ug/L	200.0	78.8	96.2	80-120	2.21	10
Lead	198	40.0	ug/L	200.0	ND	98.9	80-120	0.0708	10
Nickel	196	100	ug/L	200.0	ND	98.0	80-120	0.856	10
Selenium	205	100	ug/L	200.0	ND	103	80-120	2.05	10
Silver	197	25.0	ug/L	200.0	ND	98.5	80-120	1.72	10
Zinc	220	100	ug/L	200.0	19.7	100	80-120	0.442	10

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Project: Corning Inc - 2309043

Project Number: 2309043

Mercury CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310050									
Blank (B310050-BLK1)									
Mercury	--- U	0.050	ug/L						
LCS (B310050-BS1)									
Mercury	0.965	0.050	ug/L	1.000		96.5	85-115		
LCS Dup (B310050-BSD1)									
Mercury	0.962	0.050	ug/L	1.000		96.2	85-115	0.311	20
Matrix Spike (B310050-MS1)	**Source: 2309020-01**								
Mercury	0.980	0.050	ug/L	1.000	ND	98.0	80-120		
Matrix Spike (B310050-MS2)	**Source: 2309043-08**								
Mercury	0.978	0.050	ug/L	1.000	ND	97.8	80-120		

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Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B309132									
Blank (B309132-BLK1)									
Chromium, Hexavalent	--- U	10.0	ug/L						
Blank (B309132-BLK2)									
Chromium, Hexavalent	--- U	10.0	ug/L						
LCS (B309132-BS1)									
Chromium, Hexavalent	597	10.0	ug/L	585.0		102	85-115		
LCS (B309132-BS2)									
Chromium, Hexavalent	617	10.0	ug/L	585.0		105	85-115		
LCS Dup (B309132-BSD1)									
Chromium, Hexavalent	616	10.0	ug/L	585.0		105	85-115	3	20
LCS Dup (B309132-BSD2)									
Chromium, Hexavalent	600	10.0	ug/L	585.0		103	85-115	3	20
Matrix Spike (B309132-MS1)	**Source: 2309043-07**								
Chromium, Hexavalent	209	10.0	ug/L	200.0	5.03	102	80-120		
Batch B309134									
Blank (B309134-BLK1)									
Nitrate [As N]	--- U	0.0500	mg/L						
Nitrite [As N]	--- U	0.0250	mg/L						
Blank (B309134-BLK2)									
Nitrate [As N]	--- U	0.0500	mg/L						
Nitrite [As N]	--- U	0.0250	mg/L						

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Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B309134									
LCS (B309134-BS1)									
Nitrite [As N]	0.461	0.0250	mg/L	0.4560		101	90-110		
Nitrate [As N]	17.1	0.500	mg/L	16.50		104	90-110		
LCS Dup (B309134-BSD1)									
Nitrite [As N]	0.461	0.0250	mg/L	0.4560		101	90-110	0	20
Nitrate [As N]	17.2	0.500	mg/L	16.50		104	90-110	0.6	20
Matrix Spike (B309134-MS1)	**Source: 2309043-08**								
Nitrate [As N]	4.36	0.500	mg/L	0.2000	4.20	80	90-110		
Nitrite [As N]	0.226	0.0250	mg/L	0.2000	0.0302	98	90-110		
Batch B309138									
Blank (B309138-BLK1)									
Phenolics, Total	--- U	20.0	ug/L						
Blank (B309138-BLK2)									
Phenolics, Total	--- U	20.0	ug/L						
LCS (B309138-BS1)									
Phenolics, Total	743	20.0	ug/L	784.0		95	90-110		
LCS (B309138-BS2)									
Phenolics, Total	743	20.0	ug/L	784.0		95	90-110		
LCS Dup (B309138-BSD1)									
Phenolics, Total	726	20.0	ug/L	784.0		93	90-110	2	20

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Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B309138									
LCS Dup (B309138-BSD2)									
Phenolics, Total	775	20.0	ug/L	784.0		99	90-110	4	20
Matrix Spike (B309138-MS1)	**Source: 2309043-01**								
Phenolics, Total	482	20.0	ug/L	500.0	29.5	90	90-110		
Batch B309140									
Blank (B309140-BLK1)									
Chemical Oxygen Demand	--- U	20.0	mg/L						
Blank (B309140-BLK2)									
Chemical Oxygen Demand	--- U	20.0	mg/L						
LCS (B309140-BS1)									
Chemical Oxygen Demand	140	20.0	mg/L	155.2		90	90-110		
LCS Dup (B309140-BSD1)									
Chemical Oxygen Demand	143	20.0	mg/L	155.2		92	90-110	2	20
Matrix Spike (B309140-MS1)	**Source: 2309043-08**								
Chemical Oxygen Demand	124	40.0	mg/L	100.0	35.4	88	90-110		
Batch B309141									
Blank (B309141-BLK1)									
Biochemical Oxygen Demand	--- U	2.00	mg/L						

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Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B309141									
LCS (B309141-BS1)									
Biochemical Oxygen Demand	193	2.00	mg/L	198.0		97.5	84.6-115.4		
LCS (B309141-BS2)									
Biochemical Oxygen Demand	190	2.00	mg/L	198.0		96.0	84.6-115.4		
LCS (B309141-BS3)									
Biochemical Oxygen Demand	198	2.00	mg/L	198.0		100	84.6-115.4		
Duplicate (B309141-DUP1)		**Source: 2309043-08**							
Biochemical Oxygen Demand	1.52	2.00	mg/L		2.36			43.3	25
Matrix Spike (B309141-MS1)		**Source: 2309043-08**							
Biochemical Oxygen Demand	35.3	2.00	mg/L	31.68	2.36	104	75-125		
Matrix Spike Dup (B309141-MSD1)		**Source: 2309043-08**							
Biochemical Oxygen Demand	27.6	2.00	mg/L	23.76	2.36	106	75-125	24.5	200
Batch B310002									
Blank (B310002-BLK1)									
Fluoride	--- U	0.0500	mg/L						
Blank (B310002-BLK2)									
Fluoride	--- U	0.0500	mg/L						
LCS (B310002-BS1)									
Fluoride	4.46	0.0500	mg/L	4.860		92	90-110		

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310002									
LCS Dup (B310002-BSD1)									
Fluoride	4.50	0.0500	mg/L	4.860		93	90-110	0.9	20
Matrix Spike (B310002-MS1)	**Source: 2309020-01**								
Fluoride	40.5	0.500	mg/L	2.000	40.0	25	90-110		
Matrix Spike (B310002-MS2)	**Source: 2309043-08**								
Fluoride	2.38	0.0500	mg/L	2.000	0.550	92	90-110		
Batch B310003									
Blank (B310003-BLK1)									
Nitrogen, Total Kjeldahl	--- U	0.100	mg/L						
Blank (B310003-BLK2)									
Nitrogen, Total Kjeldahl	--- U	0.100	mg/L						
LCS (B310003-BS1)									
Nitrogen, Total Kjeldahl	12.7	0.200	mg/L	12.40		102	90-110		
LCS Dup (B310003-BSD1)									
Nitrogen, Total Kjeldahl	12.8	0.200	mg/L	12.40		103	90-110	0.8	20
Matrix Spike (B310003-MS1)	**Source: 2309043-08**								
Nitrogen, Total Kjeldahl	5.12	0.100	mg/L	4.000	0.568	114	90-110		
Batch B310004									
Blank (B310004-BLK1)									
Chloride	--- U	1.00	mg/L						

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Project Number: 2309043

Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310004									
Blank (B310004-BLK2)									
Chloride	--- U	1.00	mg/L						
LCS (B310004-BS1)									
Chloride	96.3	5.00	mg/L	91.20		106	90-110		
LCS Dup (B310004-BSD1)									
Chloride	97.6	5.00	mg/L	91.20		107	90-110	1	20
Matrix Spike (B310004-MS1)	**Source: 2309043-08**								
Chloride	53.1	10.0	mg/L	20.00	38.6	72	90-110		
Batch B310010									
Blank (B310010-BLK1)									
Cyanide, Total	--- U	10.0	ug/L						
Blank (B310010-BLK2)									
Cyanide, Total	--- U	10.0	ug/L						
LCS (B310010-BS1)									
Cyanide, Total	721	10.0	ug/L	726.0		99	90-110		
LCS Dup (B310010-BSD1)									
Cyanide, Total	698	10.0	ug/L	726.0		96	90-110	3	20
Matrix Spike (B310010-MS1)	**Source: 2309043-01**								
Cyanide, Total	361	10.0	ug/L	500.0	8.39	71	90-110		

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Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310013									
Blank (B310013-BLK1)									
Residue, Filterable	--- U	10.0	mg/L						
Blank (B310013-BLK2)									
Residue, Filterable	--- U	10.0	mg/L						
LCS (B310013-BS1)									
Residue, Filterable	255		mg/L	279.0		91.4	85-115		
LCS Dup (B310013-BSD1)									
Residue, Filterable	257		mg/L	279.0		92.1	85-115	0.781	20
Duplicate (B310013-DUP1)		**Source: 2309043-08**							
Residue, Filterable	380	10.0	mg/L		377			0.793	20
Batch B310014									
Blank (B310014-BLK1)									
Residue, Non-Filterable	--- U	10.0	mg/L						
Blank (B310014-BLK2)									
Residue, Non-Filterable	--- U	10.0	mg/L						
LCS (B310014-BS1)									
Residue, Non-Filterable	87.0		mg/L	96.70		90.0	85-115		
LCS Dup (B310014-BSD1)									
Residue, Non-Filterable	96.0		mg/L	96.70		99.3	85-115	9.84	20

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310014									
Duplicate (B310014-DUP1)		**Source: 2309043-08**							
Residue, Non-Filterable	3.00	10.0	mg/L		ND				20
Batch B310022									
Blank (B310022-BLK1)									
Ammonia [As N]	--- U	0.100	mg/L						
Blank (B310022-BLK2)									
Ammonia [As N]	--- U	0.100	mg/L						
LCS (B310022-BS1)									
Ammonia [As N]	7.52	0.100	mg/L	8.340		90	90-110		
LCS Dup (B310022-BSD1)									
Ammonia [As N]	7.82	0.100	mg/L	8.340		94	90-110	4	20
Matrix Spike (B310022-MS1)		**Source: 2309043-08**							
Ammonia [As N]	2.48	0.100	mg/L	5.000	0.0434	49	90-110		
Batch B310048									
Blank (B310048-BLK1)									
Phosphorus	--- U	0.0500	mg/L						
Blank (B310048-BLK2)									
Phosphorus	--- U	0.0500	mg/L						

Final Report

Project: Corning Inc - 2309043

Project Number: 2309043

Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310048									
LCS (B310048-BS1)									
Phosphorus	8.75	0.250	mg/L	8.450		104	90-110		
LCS Dup (B310048-BSD1)									
Phosphorus	8.75	0.250	mg/L	8.450		104	90-110	0	20
Matrix Spike (B310048-MS1)	**Source: 2309043-08**								
Phosphorus	2.91	0.500	mg/L	1.000	1.23	168	90-110		

US EPA REGION 2 LABORATORY

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CHAIN OF CUSTODY/ FIELD DATA FORM

SURVEY NAME & LOCALITY: Corning Inc. - Painted Post, NY

PROJECT LEADER: Bob Morrell

PROGRAM: SF ☐ : SITE ID _____ OPERABLE UNIT _____ PROGRAM RESULTS CODE _____

Decision Unit Code		RCRA ☐	RCRA ENF ☐	NPDES ☑	SDWA ☐	AM ☐	CAA ☐	TSCA ☐	OD ☐	FIFRA ☐	CRIMINAL ENF ☐
	Y206	D210	D307	B304	C215	B224	A305	L306	B253		

Permit #: SIU-002

LAB ID/ FIELD ID	# OF CONTERS	MATRIX	CHECK IF SPLIT SAMPLE	DESCRIPTION & INSTRUCTIONS INCLUDING LOCATION, ESTIMATED CONCENTRATIONS, SPECIAL REPORTING LIMITS,	Res CL Checked	Preservative (circle)	Collection Time (24hr clock) Begin	Collection Time (24hr clock) End	Collection Date mm/dd/yy
Effluent-Grab Composite	5	B	☑	1 250-ml plastic jar for Cyanide	☑	0 1 2 3 4 5 6 7 8 9 10	1130		09/26/23
			☑	3 1-liter amber glass jars for TTO NVOA's	☐	0 1 2 3 4 5 6 7 8 9 10		0912	09/27/23
			☑	1 250-ml amber glass jar for Phenolics	☐	0 1 2 3 4 5 6 7 8 9 10			
Trip Blank	3	A	☐	3 40-ml glass vials for TTO VOA's	☐	0 1 2 3 4 5 6 7 8 9 10		1115	09/26/23
Effluent-Grab #1	6	B	☑	3 40-ml glass vials for TTO VOA's	☐	0 1 2 3 4 5 6 7 8 9 10		1130	09/26/23
			☑	3 1-liter glass jars for Oil + Grease	☐	0 1 2 3 4 5 6 7 8 9 10			
Effluent-Grab #2	4	B	☑	3 40-ml glass vials for TTO VOA's	☑	0 1 2 3 4 5 6 7 8 9 10		1410	09/26/23
			☑	1 1-liter glass jar for Oil + Grease	☑	0 1 2 3 4 5 6 7 8 9 10			
Effluent-Grab #3	4	B	☑	3 40-ml glass vials for TTO VOA's	☑	0 1 2 3 4 5 6 7 8 9 10		1803	09/26/23
			☑	1 1-liter glass jar for Oil + Grease	☑	0 1 2 3 4 5 6 7 8 9 10			

COMMENTS & SPECIAL REQUIREMENTS:

* The four TTO VOA samples will be composited in the laboratory.

Preservative Added & Checked

0=ice
1=H2SO4 pH<2
2=HNO3 pH<2
3=HCl pH<2
4=Na2S2O3
5=NaOH pH>9
6=Ascorbic Acid
7=FAS
8=ZnAc
9=NaOH pH>12
10=NH4Cl

		Time	Date
Person Assuming Responsibility for Sample(s):	Robert A. Morrell Jr.	1001	9/27/23
Relinquished By: Robert A. Morrell Jr.	Received By:	16:30	9/27/23
Relinquished By:	Received By:		
Relinquished By:	Received By:		

Matrix:

A=aqueous
B=aqueous (chlorinated)
C=soil
D=sediment
E=sludge
F=multiphasic
G=solvent
H=biota
I=oil
J=other

Survey Complete? Y ☑ N ☐

Direct from sampling, chilled to 4°C 9/27/23

Revised 10/25/2004

US EPA REGION 2 LABORATORY

Page 2 of 2 pages

CHAIN OF CUSTODY/ FIELD DATA FORM

SURVEY NAME & LOCALITY Corning, Inc. - Painted Post, NY

PROJECT LEADER Bob Morrell

PROGRAM: SF ☐ : SITE ID _____ OPERABLE UNIT _____ PROGRAM RESULTS CODE _____

Decision		RCRA ☐	RCRA ENF ☐	NPDES ☑	SDWA ☐	AM ☐	CAA ☐	TSCA ☐	OD ☐	FIFRA ☐	CRIMINAL ENF ☐
Unit Code	Y206	D210	D307	B304	C215	B224	A305	L306	B253		

Permit #: 5IU-002

LAB ID/ FIELD ID	# OF CONTERS	MATRIX	CHECK IF SPLIT SAMPLE	DESCRIPTION & INSTRUCTIONS INCLUDING LOCATION, ESTIMATED CONCENTRATIONS, SPECIAL REPORTING LIMITS,	Res CL Checked	Preservative (circle)	Collection Time (24hr clock) Begin	Collection Time (24hr clock) End	Collection Date mm/dd/yy
Effluent-Grab #4	4	B	☑	3 40-ml glass vials for TTO VOA's	☑	0 1 2 3 4 5 6 7 8 9 10		0912	09/27/23
			☑	1 1-liter glass jar for Oil & Grease	☑	0 1 2 3 4 5 6 7 8 9 10			
Effluent-Grab #5	1	B	☑	1 125-ml plastic jar for Hexavalent Chromium	☐	0 1 2 3 4 5 6 7 8 9 10		1001	09/27/23
Effluent-24 Hr. Comp.	9	B	☑	1 250-ml plastic jar for Metals *	☐	0 1 2 3 4 5 6 7 8 9 10	0942		09/26/23
			☑	1 250-ml plastic jar for Chloride, Fluoride	☐	0 1 2 3 4 5 6 7 8 9 10		0812	09/27/23
			☑	2 1-liter plastic jars for BOD5	☐	0 1 2 3 4 5 6 7 8 9 10			
			☑	1 125-ml plastic jar for COD	☐	0 1 2 3 4 5 6 7 8 9 10			
			☑	1 500-ml plastic jar for TSS, 1 500-ml plastic jar for TDS	☐	0 1 2 3 4 5 6 7 8 9 10			
			☑	1 500-ml plastic jar for Phosphorus, Ammonia, TKN	☐	0 1 2 3 4 5 6 7 8 9 10			
			☑	1 250-ml plastic jar for Nitrate, Nitrite	☐	0 1 2 3 4 5 6 7 8 9 10			

COMMENTS & SPECIAL REQUIREMENTS:

* Metals should include Cd, Cr, Cu, Pb, Ni, Ag, Zn, Ba, As, Hg, Se.

Preservative Added & Checked

0=ice
1=H2SO4 pH<2
2=HNO3 pH<2
3=HCl pH<2
4=Na2S2O3
5=NaOH pH>9
6=Ascorbic Acid
7=FAS
8=ZnAc
9=NaOH pH>12
10=NH4Cl

	Time	Date
Person Assuming Responsibility for Sample(s): Robert A. Morrell II	1001	9/27/23
Relinquished By: Robert A. Morrell II / Received By:	16:30	9/27/23
Relinquished By: / Received By:		
Relinquished By: / Received By:		

Matrix:

A=aqueous
B=aqueous (chlorinated)
C=soil
D=sediment
E=sludge
F=multiphasic
G=solvent
H=biota
I=oil
J=other

Survey Complete? Y ☑ N ☐

revised 10/25/2004