

January 19, 2018

Crown Cleaners ATTN: Mr. Alan Anderson 5018 EP True Parkway West Des Moines, IA 50265

RE: Chlorinate Solvents Monitoring – 2017 Quarter 4.

Dear Mr. Anderson:

Impact7G, Inc. (Impact7G) conducted chlorinated solvents monitoring of the Crown Cleaners facility and adjacent restaurant at 5018 EP True Parkway, West Des Moines, IA (Property). Impact7G collected samples to determine exposure levels to chlorinated solvents including: 1,2 Dichloroethane (aka Ethylene dichloride) (DCE), Tetrachloroethylene (aka Perchloroethylene) (PCE), Trichloroethylene (TCE), and Vinylidene Chloride. The monitoring location within the dry cleaning facility was in the boiler room, near the dry cleaning machine. The monitoring location within the adjacent restaurant was in the kitchen area. Personal monitoring pumps were calibrated to a flow rate of 0.021 Liters (L) per minute using a digital TSI 4146 Primary Calibrator. Each location was monitored for approximately 6.0 hours.

TABLE 1 – 2017 O4 Monitoring Results (ppm)

Constituent	Cleaners Q4-1	Restaurant Q4-2	OSHA PEL	ACGIH TLV
1,2 Dichloroethane (DCE)	< 0.069	< 0.073	50	10
Tetrachloroethylene (PCE)	0.378	< 0.219	100	25
Trichloroethylene (TCE)	< 0.261	< 0.277	100	10
Vinylidene Chloride	< 0.353	< 0.375		5

No constituents were detected to be above the laboratory's Reporting limit, or OSHA's Permissible Exposure Limit (PEL) and the American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV). Both of these reference values are based on an 8-hour Time Weighted Average (TWA).

Should any questions arise, please feel free to contact Brandon Neilson at 515-473-6256 or bneilson@impact7g.com.

Respectfully submitted,

Brandon Neilson, CIH

Enclosures – Analytical Results







TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

TestAmerica Cedar Falls 704 Enterprise Drive Cedar Falls, IA 50613 Tel: (319)277-2401

TestAmerica Job ID: 310-121429-1

Client Project/Site: Crown Cleaners Sampling Project

For:

Impact7G, Inc 9550 Hickman Road Suite 105 Clive, Iowa 50325

Attn: Brandon Neilsen

Authorized for release by: 1/15/2018 4:14:48 PM

Brian Graettinger, Manager of Project Management (319)277-2401

brian.graettinger@testamericainc.com



Review your project results through
Total Access

Have a Question?



Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Case Narrative

Client: Impact7G, Inc

Project/Site: Crown Cleaners Sampling Project

TestAmerica Job ID: 310-121429-1

Job ID: 310-121429-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative 310-121429-1

Comments

No additional comments.

Receipt

The samples were received on 12/22/2017 3:50 PM in good condition.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Sample Summary

Client: Impact7G, Inc Project/Site: Crown Cleaners Sampling Project

TestAmerica Job ID: 310-121429-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-121429-1	Q4-01, Drycleaner	Air	12/21/17 00:00	12/22/17 15:50
310-121429-2	Q4-02, Restaurant	Air	12/21/17 00:00	12/22/17 15:50
310-121429-3	Q4-Blank	Air	12/21/17 00:00	12/22/17 15:50



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January 8, 2018

BRIAN GRAETTINGER
TESTAMERICA ANALYTICAL TESTING CORP
CEDAR FALLS DIVISION
704 ENTERPRISE DRIVE
CEDAR FALLS, IA 50613

ANALYTIC

Laboratory Workorder ID: V361064

Client Project ID: 310-121429

Received: December 27, 2017 Reported: January 8, 2018

Attached are the results we obtained on the analysis of your samples submitted to Analytics. Any Chains-of-Custody associated by this sample group are enclosed. Air concentrations are calculated as a convenience to the client and the overall accuracy of this result depends on both the accuracy of the air volume and the amount found by analysis. Theoretical air volumes for passive monitors are calculated using the sampling time submitted and the manufacture's listed sampling rate for each compound. Results provided in this report relate only to the items tested.

For blanks and non-detects the results indicated with a '<' value represents the reporting limit for the analysis. Unless otherwise noted results are not corrected for blank values.

Unless the signature of the appropriate manager(s) appears on this report, this report should be considered PRELIMINARY and is subject to change.

We appreciate your confidence in allowing Analytics to be your testing laboratory. Any questions regarding this report can be addressed by calling our customer services department at (800) 888-8061.

Andrew L. Teague, CIH Technical Director

Enclosures



Analytics Corporation 10329 Stony Run Lane Ashland, Va 23005 Phone: (804) 365-3000 Fax: (804) 365-3002 AIHA-LAP, LLC Accreditation ID 100531

Date Received: 12/27/17

Final Report

Work Order V361064

TESTAMERICA ANALYTICAL TESTING CORP Customer: 14709000

CEDAR FALLS DIVISION
704 ENTERPRISE DRIVE
Attention: BRIAN GRAETTINGER

CEDAR FALLS, IA 50613 PO Number OR#917836 Client Project ID 310-121429

 Lab ID:
 V361064001
 Sample ID:
 310-121429-1
 Q4-01 DRYCLEANER
 Media:
 Charcoal Tube 50/100mg
 Sample Date:
 12/21/2017
 Sampling Time:

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration	
1,2-Dichloroethane	NIOSH Method 1003	01/05/18	7.14	L	2.0 ug	< 2 ug	ND	< 2 ug	< 0.28 mg/M3	< 0.0692 ppm
Tetrachloroethylene	NIOSH Method 1003	01/05/18	7.14	L	10.0 ug	18.3 ug	ND	18.3 ug	2.56 mg/M3	0.378 ppm
Trichloroethylene	NIOSH Method 1022	01/05/18	7.14	L	10.0 ug	< 10 ug	ND	< 10 ug	< 1.4 mg/M3	< 0.261 ppm
Vinylidene Chloride	NIOSH Method 1015	01/05/18	7.14	L	10.0 ug	< 10 ug	ND	< 10 ug	< 1.4 mg/M3	< 0.353 ppm

 Lab ID:
 V361064002
 Sample ID:
 310-121429-2
 Q4-02 RESTAURANT
 Media:
 Charcoal Tube 50/100mg
 Sample Date:
 12/21/2017
 Sampling Time:

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration	
1,2-Dichloroethane	NIOSH Method 1003	01/05/18	6.72	L	2.0 ug	< 2 ug	ND	< 2 ug	< 0.298 mg/M3	< 0.0735 ppm
Tetrachloroethylene	NIOSH Method 1003	01/05/18	6.72	L	10.0 ug	< 10 ug	ND	< 10 ug	< 1.49 mg/M3	< 0.219 ppm
Trichloroethylene	NIOSH Method 1022	01/05/18	6.72	L	10.0 ug	< 10 ug	ND	< 10 ug	< 1.49 mg/M3	< 0.277 ppm
Vinylidene Chloride	NIOSH Method 1015	01/05/18	6.72	L	10.0 ug	< 10 ug	ND	< 10 ug	< 1.49 mg/M3	< 0.375 ppm

 Lab ID:
 V361064003
 Sample ID:
 310-121429-3
 Q4-BLANK
 Media:
 Charcoal Tube 50/100mg
 Sample Date:
 12/21/2017
 Sampling Time:

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
1,2-Dichloroethane	NIOSH Method 1003	01/05/18	0	L	2.0 ug	< 2 ug	ND	< 2 ug	
Tetrachloroethylene	NIOSH Method 1003	01/05/18	0	L	10.0 ug	< 10 ug	ND	< 10 ug	

Report ID:: V361064-201801082408 Analysis Report Section - Page 1 of 3







Analytics Corporation 10329 Stony Run Lane Ashland, Va 23005 Phone: (804) 365-3000 Fax: (804) 365-3002 AIHA-LAP, LLC Accreditation ID 100531

Final Report

Work Order V361064

Lab ID: V361064003 Sample ID: 310-121429-3 Q4-BLANK Media: Charcoal Tube 50/100mg Sample Date: 12/21/2017 Sampling Time:

Analyte	Method	Analysis Date	Volume	!	Reporting Limit	Front	Rear	Total	Concentration
Trichloroethylene	NIOSH Method 1022	01/05/18	0	L	10.0 ug	< 10 ug	ND	< 10 ug	
Vinylidene Chloride	NIOSH Method 1015	01/05/18	0	L	10.0 ug	< 10 ug	ND	< 10 ug	

1/15/2018

Analysis Report Section - Page 2 of 3



Analytics Corporation 10329 Stony Run Lane Ashland, Va 23005 Phone: (804) 365-3000 Fax: (804) 365-3002 AIHA-LAP, LLC Accreditation ID 100531

Final Report

Work Order V361064

General Laboratory Comments

Abbreviations:

ug = micrograms; mg=milligrams; g = grams, ppm=parts per million (volume), ppb = parts per billion (volume), mg/M3=milligrams per cubic meter of air, ug/M3=micrograms per cubic meter of air; Min=minutes, Qual=Qualifiers

1/15/2018

Report ID::

V361064-201801082408





TestAmerica Cedar Falls

704 Enterprise Drive

Chain of Custody Record







Cedar Falls, IA 50613 Phone (319) 277-2401 Fay (319) 277-2425

Phone (319) 277-2401 Fax (319) 277-2423	Sampler				Lab PM: Graettinger, Brian C						Carrier Tracking No(s):				COC No:	V3610
Client Information (Sub Contract Lab)	Phone:			Gra E-Ma	-	er, Br	ian C	2			State of Origin:				310-11649.1 Page:	
Shipping/Receiving	Priorie.				n.grae				ericainc.con	n	Iowa	1 100 mm to the control of the contr				
Company:					Accre	editatio	ns Req	uired (S	See note):						Job #: 310-121429-1	
Analytics Corporation Address:	Due Date Request				+										Preservation C	odes:
10329 Stony Run Lane, ,		01/05/	18	1	↓				Analysi	is Req	uested	<u> </u>			A - HCL	M - Hexane
City: Ashland	TAT Requested (d	lays):		1											B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip:	_					•	8	2							D - Nitric Acid	P - Na2O4S
VA, 23005	DO #	1 0			-	90	Hori	ane							E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3
Phone: 800-888-8061(Tel)	0,83	91	7836	>		thyle	9	roeth							G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrai
Email:	WO #:		(d 12):		ž b	o o	yllde	ichlo							I - Ice J - DI Water	U - Acetone V - MCAA
Project Name:	Project #:		-	1/	S S	rich r	\ Vi	1,2 D						ners	K - EDTA	W - pH 4-5
Crown Cleaners Sampling Project	31000042- 31	10-12	1429		9	ne)/	ride)	2 Dic						ntai	L - EDA	Z - other (specify)
Site:	SSOW#:				amb	d k	Chlo	thyle) t co	Other:	
				Matrix	5 pa.	Perform MS/MSD (Yes or No) SUB (Trichloroethylene)/ Trichloroethylene	SUB (Vinylidene Chloride)/ Vinylidene Chloride	SUB (Perchloroethylene, 1,2 Dichloroethane)/ Perchloroethylene, 1,2 Dichloroethane						Total Number of containers		
			Sample Type	(W=water,	ilter	rich B	Inyli	erch						E I	AID I	[.]
		Sample	(C=comp,	S=solid, O=waste/oil,	Ple	D BL	B C	JB (P						otall	MIN	oumle
Sample Identification - Client ID (Lab ID)	Sample Date	Time		BT=Tissue, A=Air	F	1 10	S	S of	200 000 0	BH-75306	1700 000			F	Special	nstructions/Note:
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Q4-01, Drycleaner (310-121429-1)	12/21/17	Central		Air	Н	X	X	X	\perp	\perp			-	1	7,14	luiso
Q4-02, Restaurant (310-121429-2)	12/21/17	Central		Air	Ш	X	X	X	$\perp \perp$					1	6.72	
Q4-Blank (310-121429-3)	12/21/17	Central		Air	Ш	X	X	X						1	O	-
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Note: Since laboratory accreditations are subject to change, TestAmerica Lat	poratories, Inc. places the	e ownership of	method, analy	te & accreditati	on com	pliance	e upon	out sub	contract labor	ratories.	This sampl	e shipme	nt is forw	arded und	der chain-of-custody	. If the laboratory does no
currently maintain accreditation in the State of Origin listed above for analysis Laboratories, Inc. attention immediately. If all requested accreditations are or	/tests/matrix being analy	zed, the sampl	les must be sh	pped back to t	ne Test	Americ	a labor	ratory or	r other instruc	ctions will	be provide	d. Any ch	nanges to	o accredita	tion status should t	e brought to TestAmerica
Possible Hazard Identification				- 1	s	ampl	le Dis	posal	(A fee ma	ay be as	sessed	if sam	oles ar	e retain	ed longer than	1 month)
Unconfirmed								n To C			isposal E	By Lab	L	- Arch	ive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank:	1		S	pecia	I Instr	ruction	ıs/QC Requ	uiremen	ts:					
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Ver: 09/20/2016







Accreditation/Certification and Definitions Summary

Project/Site: Crown Cleaners Sampling Project

Client: Impact7G, Inc

TestAmerica Job ID: 310-121429-1

Laboratory: TestAmerica Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
AIHA-LAP, LLC	IHLAP		101044	11-01-18
Georgia	State Program	4	IA100001 (OR)	09-29-18
Illinois	NELAP	5	200024	11-29-18
Iowa	State Program	7	007	12-01-17 *
Kansas	NELAP	7	E-10341	01-31-18
Minnesota	NELAP	5	019-999-319	12-31-18
Minnesota (Petrofund)	State Program	1	3349	08-22-18
North Dakota	State Program	8	R-186	09-29-18
Oregon	NELAP	10	IA100001	09-29-18

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Page 9 of 12

^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Impact7G, Inc

Project/Site: Crown Cleaners Sampling Project

TestAmerica Job ID: 310-121429-1

Method	Method Description	Protocol	Laboratory
Perchloroethylene , 1,2	NIOSH 1003	NONE	Analytics
Dichloroethane	NICOLI 4000	NONE	A a lostica -
Trichloroethylene	NIOSH 1022	NONE	Analytics
Vinylidene Chloride	NIOSH 1015	NONE	Analytics

Protocol References:

NONE = NONE

Laboratory References:

Analytics = Analytics Corporation, 10329 Stony Run Lane, Ashland, VA 23005, TEL (800)888-8061

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Send Invoice To:

Send Report To: Brandon Walson

		1 1-2		
4	Enter	prise	Drive	9

Cedar Falls, IA 50613 Ph: 1-800-750-2401 or (319) 277-2401

Fax: (319) 277-2425 www.testamericainc.com

Page: [of [Sampler: TH

Company: Impact 76, Inc.

9550 Hickman Road, Suite 105

City, State, Zip: Clive, FA 50335

Project Name: Crancleures Project No.:

Phone: (\$15) 473-6286 Fax: Email Address: Dreiton @ impact 7g. (com P.O. #:

Media Type (Filter, Tube, Passive Monitor) Sampling Time (Minutes) Analysis Method(s)/Analytes(s) Lab Date Sample Air Volume Pump ID Number Sampled Identification (Liters) Q4-01 NIOSH 1003, 1015, Tube 340 7.14 305 12-41-17 dry chaner Q4-62 1022 320 restaurant Q4-Blank 0

Sample Receipt	Reporting/Deliverables	Turn Around Time Requested
TemperatureC	Hardcopy Results: YesNoNo	Next Day by 6pm 2 Business Days
Sample Seals: YesNo	E-Mail Results: Yes No No	3 Business Days 4 Business Days
Sample Seals Intact: YesNo	EDD: Yes No Type:	Standard 7 Business Days
Total # of Samples:	Data Package: Standard Level II:	RUSH Charges AuthorizedYesNo
	Level III: Level IV:	Subject to scheduling and availability (RUSH surcharges apply)
Instructions / Special Requirements:		

Date	Time	Samples Relinquished By	1 Received By	
19-97-D 08=	35	Jame Hold	yux x	
		Page 11 of 12	forfortelladise 1715720	

IH Sample Receipt Form

Client: Impact 76		Project:	Crawn Clea	hers	
city: <u>Clive</u>	IA				
Date: 12-22-17	Receiver's Initials:		Time (Delivered):	1550	
COC completed correctly? Cite inconsistencies below)	Yes 🗆 No				
Sample Checklist (Mark non-c	conformance or acceptance)		Couriers		
Received Broken	Information Missing		UPS	> TA Courier	
Improper Media	Missing Sample		FedEx	Client	
Missing Label	Sample Past Hold Date		FedEx Ground	Other:	
Temperature	Extra Sample		USPS		
COC Discrepancy	Insufficient Sample Volume		Spee-Dee		
Other:	11 151			A	
		Samples not received in a cooler			
The samples, as received,	are acceptable for analysis		X Temperature not taken		
Reviewed by: &2	Date: 12 26 17				
Comments Sample re	iceived in cooler with	no Ice	no temp t	alcen	
- Ol	All and the second seco				

Document: CF-LG-WI-003

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING 704 Enterprise Drive • Cedar Falls, IA 50613 Tel 319-277-2401 • Fax 319-277-2425

Revision: 8 Date: 6/23/2014