



Mr. Michael Belveg

Regional Enforcement Coordinator – Region 7 New York State Department of Environmental Conservation 615 Erie Blvd. West Syracuse, NY 13204

Date October 18,2019

Former Accurate Die Casting Site (Site No. 734052), Fayetteville, NY

Dear Mr. Belveg:

This letter presents the status of groundwater treatment plant operations for the former Accurate Die Casting site (Site No. 734052) in Fayetteville, New York for the third quarter of 2019 (July 1 through September 30, 2019). This information is provided as required by the Order on Consent (#A7-0318-94-10). Included are the results of the monitoring activities associated with the SPDES Fact Sheet for the groundwater treatment system.

Operation Status and Activities Completed

As of September 30, 2019, a total of 120,333,786 gallons of groundwater have been treated since startup on February 5, 1996. From July 1 to September 30, 2019, 1,072,450 gallons of groundwater were treated: 186,377 gallons from recovery well RW-1; 885,940 gallons from recovery well RW-2; and 133 gallons from the collection trench constructed in the former VOC/PAH/PCB Soils Area. No groundwater was recovered from the overburden groundwater collection sump located in the former soil excavation area along the northwest side of the former manufacturing building (Area 2).

The analytical results associated with the SPDES Fact Sheet monitoring activities performed during April, May, and June 2019 are summarized in **Table 1**. The effluent quality during the period complied with the SPDES discharge limits. The laboratory analytical data sheets are provided as **Attachment A**.

The carbon in granular activated carbon filter GAC#2 was replaced on July 11, 2019 and afterward filter GAC#2 was placed into lag service and GAC#1 placed into lead service.

Ramboll 333 West Washington Street Syracuse, NY 13202 USA

T 315-956-6100 F 315-463-7554 https://ramboll.com



Activities Scheduled

The groundwater recovery and treatment system will continue to be operated and the SPDES monitoring will continue to be conducted.

If you have any questions regarding this report, please do not hesitate to call David Carnevale at (315) 956-6571.

Yours sincerely

Douglas M. Crawford, PE

Vice President

ENVIRONMENT & HEALTH, AMERICAS

Daugles M. Cranf L

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E. O'Neil - New York State Department of Health

M. Schuck - New York State Department of Health

T. Slutzky – The Anderson Company

J. Stanek - ITT Corporation

L. Hall - ITT Corporation

E. Gernant - O'Brien & Gere, Office of General Counsel

Table 1 Former Accurate Die Casting Site Fayetteville, New York **Monitoring Requirements and Effluent Data**

		Monitoring Re	quirements															
	Discharge	Discharge	Minimum															
Analyte (units)	Limitation	Limitation	Measurement	Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
	Daily Average	Daily Maximur	n Frequency (1)	Туре	7/1/2019	7/2/2019	7/8/2019	7/11/2019	7/12/2019	7/15/2019	7/19/2019	7/22/2019	7/23/2019	7/26/2019	7/29/2019	8/2/2019	8/5/2019	8/7/2019
Flow (GPD)	Monitor	150000	Continuous	Meter		12512	12493	12472	12500	12391	12334	12293	12286	12184	12118	9653	11970	11902
pH (SU)	6.5-8.5		2/Week	Grab		7.6	7.6	7.7	8.1	7.9	7.6	7.7	7.7	7.6	7.6	7.6	7.6	7.7
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.			<4.0 U			<4.0 U		<4.0 U			<4.0 U			<4.0 U
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.			650			626		630			587			613
Mercury, total (mg/L)	Monitor	0.0008	Quarterly	3-hr comp.														
Zinc, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.														
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	1 U					1 U								1 U
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	1 U					1 U								1 U
Methylene chloride (ug/L)	Monitor	20	2/Month	Grab	1 U					1 U								1 U
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	10	2/Month	Grab	1 U					1 U								1 U
Tetrachloroethene (ug/L)	Monitor	10	2/Month	Grab	1 U					1 U								1 U
Toluene (ug/L)	Monitor	20	2/Month	Grab	1 U					1 U								1 U
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	1 U					1 U								1 U
					Notes: Not analy													

Table 1 Former Accurate Die Casting Site Fayetteville, New York Monitoring Requirements and Effluent Data

		Monitoring Re	quirements															
	Discharge	Discharge	Minimum															
Analyte (units)	Limitation	Limitation	Measurement	Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
	Daily Average	Daily Maximun	n Frequency (1)	Type	8/9/2019	8/12/2019	8/13/2019	8/16/2019	8/19/2019	8/20/2019	8/21/2019	8/23/2019	8/26/2019	8/27/2019	8/28/2019	8/30/2019	9/3/2019	9/4/2019
Flow (GPD)	Monitor	150000	Continuous	Meter	11736		11494	11254	11114	11194	7089	11733	11291	11184	11104	11098	11115	11138
pH (SU)	6.5-8.5		2/Week	Grab	7.6		7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.		<4.0 U			5.2				<4.0 U					<4.0 U
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.		666			656				633 B					710
																		ı
Mercury, total (mg/L)	Monitor	0.0008	Quarterly	3-hr comp.														0.00020 U
Zinc, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.														0.0041 J
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab					1 U									1 U
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab					1 U									1 U
Methylene chloride (ug/L)	Monitor	20	2/Month	Grab					1 U									1 U
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	10	2/Month	Grab					1 U									1 U
Tetrachloroethene (ug/L)	Monitor	10	2/Month	Grab					1 U									1 U
Toluene (ug/L)	Monitor	20	2/Month	Grab					10									1U
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab					1 U									1 U
																		ı
	1				Notes:													
					Not analyzed, NA - Data Not available U - Not Detected, J - Estimated, H - Holding times for preparation or analyses exceeded, B - Compound found in the blank and sample													
				U - Not Detected, J - Estimated, H - Holding times for preparation or analyses exceeded, B - Compound found in the blank and sample (1) Minimum monitoring requirements based on SPEDES permit modified November, 21, 1997.														

) Minimum monitoring requirements based on SPEDES permit modified November, 21, 1997.

Table 1 Former Accurate Die Casting Site Fayetteville, New York **Monitoring Requirements and Effluent Data**

		Monitoring Re	quirements												
	Discharge	Discharge	Minimum												
Analyte (units)	Limitation	Limitation	Measurement	Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
	Daily Average	Daily Maximum	n Frequency (1)	Type	9/6/2019	9/9/2019	9/10/2019	9/14/2018	9/16/2019	9/17/2019	9/20/2019	9/23/2019	9/27/2019	9/30/2019	10/2/2019
Flow (GPD)	Monitor	150000	Continuous	Meter	11155	11014	10797	10775	10496	10220	10075	9820	9558	9247	9277
pH (SU)	6.5-8.5		2/Week	Grab	7.6	7.6	7.6	7.6	7.6	7.7	7.7	7.7	7.6	7.7	7.7
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.		<4.0 U			<4.0 U				4.8	<4.0 U	
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.		630			660				665	608	
Mercury, total (mg/L)	Monitor	0.0008	Quarterly	3-hr comp.											
Zinc, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.											
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab					1 U						
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab					1 U						
Methylene chloride (ug/L)	Monitor	20	2/Month	Grab					1 U						
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	10	2/Month	Grab					1 U						
Tetrachloroethene (ug/L)	Monitor	10	2/Month	Grab					1 U						
Toluene (ug/L)	Monitor	20	2/Month	Grab					1U						
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab					1 U						
					Notes: Not analyzi U - Not Detecte	ed, NA - Data f		noc for proper	ation or analysis	or avacaded B	Compound fo	und in the blen	k and comple		

Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-155667-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America 333 West Washington St. PO BOX 4873 East Syracuse, New York 13221

Attn: Mr. David J Carnevale

The

Authorized for release by: 7/12/2019 7:39:31 PM
Rebecca Jones, Project Management Assistant I rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II (716)504-9838 john.schove@testamericainc.com

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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.

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Definitions/Glossary

Client: O'Brien & Gere Inc of North America Job ID: 480-155667-1

Project/Site: Former Accurate Die Cast

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Glossary

TEF

TEQ

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

7/12/2019

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-155667-1

Job ID: 480-155667-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-155667-1

Receipt

The samples were received on 7/2/2019 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

GC/MS VOA

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

General Chemistry

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

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Detection Summary

RL

10.0

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Total Dissolved Solids

Client Sample ID: EFFLUENT 070119

Job ID: 480-155667-1

Prep Type

Total/NA

Lab Sample ID: 480-155667-1

Dil Fac D Method

SM2540 C

_				

Client Sample ID: BETWEEN CARBONS 070119 Lab Sample ID: 480-155667-2

MDL Unit

4.0 mg/L

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fa	c D	Method	Prep Typ	e
cis-1,2-Dichloroethene	2.5		1.0	0.81	ug/L		1 _	8260C	Total/NA	
Trichloroethene	24		1.0	0.46	ug/L		1	8260C	Total/NA	

Result Qualifier

Job ID: 480-155667-1

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 070119

Date Collected: 07/01/19 07:00 Date Received: 07/02/19 08:00 Lab Sample ID: 480-155667-1

Lab Sample ID: 480-155667-2

07/09/19 04:08

Matrix: Water

. Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/09/19 03:45	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/09/19 03:45	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/09/19 03:45	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/09/19 03:45	1
Toluene	ND		1.0	0.51	ug/L			07/09/19 03:45	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/09/19 03:45	1
Trichloroethene	ND		1.0	0.46	ug/L			07/09/19 03:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120			-		07/09/19 03:45	1
4-Bromofluorobenzene (Surr)	94		73 - 120					07/09/19 03:45	1
Toluene-d8 (Surr)	99		80 - 120					07/09/19 03:45	1
Dibromofluoromethane (Surr)	94		75 - 123					07/09/19 03:45	1
- General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	615		10.0	4.0	mg/L			07/05/19 07:51	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4 0	mg/L			07/03/19 10:25	

Client Sample ID: BETWEEN CARBONS 070119

Date Collected: 07/01/19 07:00

Date Received: 07/02/19 08:00

Trichloroethene

Method: 8260C - Volatile Organ	nic Compounds by G	C/MS						
Analyte	Result Qual	lifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			07/09/19 04:08	1
cis-1,2-Dichloroethene	2.5	1.0	0.81	ug/L			07/09/19 04:08	1
Methylene Chloride	ND	1.0	0.44	ug/L			07/09/19 04:08	1
Tetrachloroethene	ND	1.0	0.36	ug/L			07/09/19 04:08	1
Toluene	ND	1.0	0.51	ug/L			07/09/19 04:08	1
trans-1,2-Dichloroethene	ND	1.0	0.90	ug/L			07/09/19 04:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		07/09/19 04:08	1
4-Bromofluorobenzene (Surr)	92		73 - 120		07/09/19 04:08	1
Toluene-d8 (Surr)	97		80 - 120		07/09/19 04:08	1
Dibromofluoromethane (Surr)	94		75 - 123		07/09/19 04:08	1

1.0

0.46 ug/L

Eurofins TestAmerica, Buffalo

7/12/2019

Surrogate Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-155667-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

_ 		Percent Surrogate Recovery (Acceptance Limits)				
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)	
480-155667-1	EFFLUENT 070119	106	94	99	94	
480-155667-2	BETWEEN CARBONS 070119	105	92	97	94	
LCS 480-481192/5	Lab Control Sample	100	93	99	95	
MB 480-481192/7	Method Blank	104	96	102	95	

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Job ID: 480-155667-1

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Method: 8260C - Volatile Organic Compounds by GC/MS

Ma

An

ab Sample ID: MB 480-481192/7	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA
analysis Batch: 481192	
MD MD	

	MB MB							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND ND	1.0	0.21	ug/L			07/08/19 21:46	1
cis-1,2-Dichloroethene	ND	1.0	0.81	ug/L			07/08/19 21:46	1
Methylene Chloride	ND	1.0	0.44	ug/L			07/08/19 21:46	1
Tetrachloroethene	ND	1.0	0.36	ug/L			07/08/19 21:46	1
Toluene	ND	1.0	0.51	ug/L			07/08/19 21:46	1
trans-1,2-Dichloroethene	ND	1.0	0.90	ug/L			07/08/19 21:46	1
Trichloroethene	ND	1.0	0.46	ug/L			07/08/19 21:46	1

	MB	MB					
Surrogate	%Recovery	Qualifier L	imits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104	77	7 - 120	_		07/08/19 21:46	1
4-Bromofluorobenzene (Surr)	96	73	3 - 120			07/08/19 21:46	1
Toluene-d8 (Surr)	102	80) ₋ 120			07/08/19 21:46	1
Dibromofluoromethane (Surr)	95	7:	5 - 123			07/08/19 21:46	1

Lab Sample ID: LCS 480-481192/5 Client Sample ID: Lab Control Sample **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 481192

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1,2,2-Tetrachloroethane	25.0	24.6		ug/L		98	76 - 120	
cis-1,2-Dichloroethene	25.0	22.5		ug/L		90	74 - 124	
Methylene Chloride	25.0	23.7		ug/L		95	75 ₋ 124	
Tetrachloroethene	25.0	22.9		ug/L		92	74 - 122	
Toluene	25.0	22.8		ug/L		91	80 _ 122	
trans-1,2-Dichloroethene	25.0	23.0		ug/L		92	73 - 127	
Trichloroethene	25.0	23.8		ug/L		95	74 - 123	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	93		73 - 120
Toluene-d8 (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	95		75 - 123

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-480758/1	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 480758

	IVID IVID						
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND —	1.0	1.0 mg/L			07/03/19 10:25	1

Lab Sample ID: LCS 480-480758/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 460756								
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Suspended Solids	252	243.6		mg/L		97	88 - 110	 _

Eurofins TestAmerica, Buffalo

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QC Sample Results

Client: O'Brien & Gere Inc of North America

Project/Site: Former Accurate Die Cast

Job ID: 480-155667-1

Method: SM 2540D - Solids	, Total Sus	pended (TSS)	(Continued)
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Lab Sample ID: 480-155667-1 DU Client Sample ID: EFFLUENT 070119

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 480758

DU DU RPD Sample Sample Result Qualifier Result Qualifier RPD Analyte Unit Limit Total Suspended Solids ND NC 10 ND mg/L

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-480881/1 Client Sample ID: Method Blank

Prep Type: Total/NA

Matrix: Water Analysis Batch: 480881

MB MB

Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 10.0 Total Dissolved Solids ND 4.0 mg/L 07/05/19 07:51

Lab Sample ID: LCS 480-480881/2 **Client Sample ID: Lab Control Sample**

Matrix: Water Prep Type: Total/NA

Analysis Batch: 480881 Spike LCS LCS

%Rec. Analyte Added Result Qualifier Unit Limits %Rec Total Dissolved Solids 500 85 - 115 481.0 mg/L

Lab Sample ID: 480-155667-1 DU Client Sample ID: EFFLUENT 070119 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 480881

Sample Sample DU DU RPD Analyte Result Qualifier Result Qualifier **RPD** Limit Unit

Total Dissolved Solids 615 623.0 mg/L 10

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-155667-1

GC/MS VOA

Analysis Batch: 481192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155667-1	EFFLUENT 070119	Total/NA	Water	8260C	
480-155667-2	BETWEEN CARBONS 070119	Total/NA	Water	8260C	
MB 480-481192/7	Method Blank	Total/NA	Water	8260C	
LCS 480-481192/5	Lab Control Sample	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 480758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155667-1	EFFLUENT 070119	Total/NA	Water	SM 2540D	
MB 480-480758/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-480758/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-155667-1 DU	EFFLUENT 070119	Total/NA	Water	SM 2540D	

Analysis Batch: 480881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155667-1	EFFLUENT 070119	Total/NA	Water	SM2540 C	
MB 480-480881/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-480881/2	Lab Control Sample	Total/NA	Water	SM2540 C	
480-155667-1 DU	EFFLUENT 070119	Total/NA	Water	SM2540 C	

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Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: O'Brien & Gere Inc of North America Job ID: 480-155667-1

Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 070119

Lab Sample ID: 480-155667-1 Date Collected: 07/01/19 07:00

Matrix: Water

Batch Dilution Batch Batch Prepared Method Prep Type Туре Run Factor Number or Analyzed Lab Analyst Total/NA Analysis 8260C 481192 07/09/19 03:45 AMM TAL BUF Total/NA Analysis SM 2540D 07/03/19 10:25 TAL BUF 1 480758 RAF Total/NA Analysis SM2540 C 1 480881 07/05/19 07:51 RAF TAL BUF

Client Sample ID: BETWEEN CARBONS 070119

Lab Sample ID: 480-155667-2

Matrix: Water

Date Collected: 07/01/19 07:00 Date Received: 07/02/19 08:00

Date Received: 07/02/19 08:00

Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor Number or Analyzed Analyst Lab TAL BUF Total/NA Analysis 8260C 481192 07/09/19 04:08 $\overline{\mathsf{AMM}}$

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America
Project/Site: Former Accurate Die Cast

Job ID: 480-155667-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-155667-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Eurofins TestAmerica, Buffalo

Sample Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-155667-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-155667-1	EFFLUENT 070119	Water	07/01/19 07:00	07/02/19 08:00	
480-155667-2	BETWEEN CARBONS 070119	Water	07/01/19 07:00	07/02/19 08:00	

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Ver. 01/16/2019 Special Instructions/Note: M - Hexane N - None O - AsNaO2 P - Na2O4S Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon SVI 2000 NO. 480-155667 Chain of Custody 0800 A - HCL B - NaOH C - Zn Acetate Page: Page 1 of 1 Total Number of co M Method of Shipment Analysis Requested coler Temperature(s) °C and Other Remarks Special Instructions/QC Requirements melissa.deyo@testamericairic.com m 260C - Volstile Organic Compounds Lab PM: Deyo, Melissa L Time Company E-Mail WATER Water Matrix Preservation Code Water MARIN Knewnerks Radiological 9:30 Type (C=comp, G=grab) Sample B 3 315-729-1300 1:00 17:00 Sample 7300 Time Unknown Date: TAT Requested (days): Due Date Requested: Sample Date 61-1-4 7-1-19 61-1-4 PO#. Project #: 48008584 SSOW#: Poison B Skin Irritant Deliverable Requested: I, III, III, IV, Other (specify) Custody Seals Infact: Custody Seal No. 333 West Washington St. PO BOX 4873 315-956-6100(Tel) 315-463-7554(Fax) 611070 O'Brien & Gere Inc of North America etween Carbons CTC 119 Flammable Possible Hazard Identification Empty Kit Relinquished by: 070119 Former Accurate Die Cast EALVENT Sample Identification Client Information Yuri.Veliz@obg.com Non-Hazard East Syracuse quished by: nquished by. Client Contact
Mr. Yuri Veliz State, Zip. NY, 13221 Effluent

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Eurofins - tAmerica, Buffalo

Phone (716) 691-2600 Fax (716) 691-7991

Amherst, NY 14228-2298

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Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America Job Number: 480-155667-1

Login Number: 155667 List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

ordator: Francoo, Garrioron		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-155862-1

Client Project/Site: Former Accurate Die Cast

O'Brien & Gere Inc of North America 333 West Washington St. PO BOX 4873 East Syracuse, New York 13221

Attn: Mr. David J Carnevale

Authorized for release by: 7/17/2019 12:53:12 PM Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II (716)504-9838

john.schove@testamericainc.com

.....LINKS

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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.

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Sample Summary	12
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Definitions/Glossary

Client: O'Brien & Gere Inc of North America Job ID: 480-155862-1

Project/Site: Former Accurate Die Cast

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)

7/17/2019

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-155862-1

Job ID: 480-155862-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-155862-1

Receipt

The sample was received on 7/9/2019 8:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

General Chemistry

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

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Detection Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-155862-1

Client Sample ID: EFFLUENT 070819

Lab Sample ID: 480-155862-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Total Dissolved Solids	650	10.0	4.0 mg/L	1	SM2540 C	Total/NA

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Client Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Date Received: 07/09/19 08:00

Job ID: 480-155862-1

Client Sample ID: EFFLUENT 070819

Date Collected: 07/08/19 06:45

Lab Sample ID: 480-155862-1

Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	650		10.0	4.0	mg/L			07/10/19 07:49	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			07/10/19 08:15	1

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Job ID: 480-155862-1

Prep Type: Total/NA

Prep Type: Total/NA

Client: O'Brien & Gere Inc of North America

Project/Site: Former Accurate Die Cast

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-481424/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 481424

мв мв Analyte Result Qualifier RL RL Unit Prepared Analyzed Dil Fac 1.0 07/10/19 08:15 Total Suspended Solids 1.0 mg/L ND

Lab Sample ID: LCS 480-481424/2 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 481424

Spike LCS LCS %Rec. Added Result Qualifier Limits Unit D %Rec **Total Suspended Solids** 271 260.8 mg/L 96 88 - 110

Lab Sample ID: 480-155862-1 DU Client Sample ID: EFFLUENT 070819

Matrix: Water

Analysis Batch: 481424

Sample Sample DU DU RPD Result Qualifier Result Qualifier Limit Analyte RPD Unit Total Suspended Solids ND ND mg/L NC 10

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-481403/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 481403

MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac **Total Dissolved Solids** ND 10.0 4.0 mg/L 07/10/19 07:49

Lab Sample ID: LCS 480-481403/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 481403

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Total Dissolved Solids 500 491.0 mg/L 98 85 - 115

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-155862-1

General Chemistry

Analysis Batch: 481403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155862-1	EFFLUENT 070819	Total/NA	Water	SM2540 C	
MB 480-481403/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-481403/2	Lab Control Sample	Total/NA	Water	SM2540 C	

Analysis Batch: 481424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155862-1	EFFLUENT 070819	Total/NA	Water	SM 2540D	
MB 480-481424/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-481424/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-155862-1 DU	EFFLUENT 070819	Total/NA	Water	SM 2540D	

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Lab Chronicle

Client: O'Brien & Gere Inc of North America Job ID: 480-155862-1

Project/Site: Former Accurate Die Cast

Date Received: 07/09/19 08:00

Client Sample ID: EFFLUENT 070819

Lab Sample ID: 480-155862-1 Date Collected: 07/08/19 06:45 **Matrix: Water**

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	481424	07/10/19 08:15	RAF	TAL BUF
Total/NA	Analysis	SM2540 C		1	481403	07/10/19 07:49	RAF	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-155862-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-155862-1

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Sample Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-155862-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-155862-1	EFFLUENT 070819	Water	07/08/19 06:45	07/09/19 08:00	

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NS Medico Special Instructions/Note: Company M - Hexane N - None Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Moni Fracking Nots: CUC INC. 125370-10586.1 480-155862 Chain of Custody Preservation Codes: 0000 Smy-101040 A - HCL B - NaOH 19 Total Number of conf Method of Shipment Analysis Requested Cooler Temperature(s) "C and Other Remarks: Lab PM:
Deyo, Melissa L
E-Mail:
melissa deyo@testamericainc.com 2540C_Calcd - Total Dissolved Solids Chain of Custoo, .ecord Field Filtered Sample (Yes or No) Company Preservation Code: Matrix Water Radiological Kvennach (C=comp, G=grab) Sample Type 1300 - 1300 Sample Time 54.0 Date: Unknown mpign AR IIN TAT Requested (days): Due Date Requested: Sample Date 41-8-4 PO# 11900114 Project #: 48008584 SSOW#: 7 Poison B Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify) Custody Seal No.: Phone (716) 691-2600 Fax (716) 691-7991 333 West Washington St. PO BOX 4873 315-956-6100(Tel) 315-463-7554(Fax) O'Brien & Gere Inc of North America 618040 Amherst, NY 14228-2298 Former Accurate Die Cast Empty Kit Relinquished by: Custody Seals Intact: Client Information Sample Identification Yuri.Veliz@obg.com East Syracuse Mr. Yuri Veliz duished by. yd bedsiupr State, Zip. NY, 13221

Iment Testing

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Eurofins 'tAmerica, Buffalo

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Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America Job Number: 480-155862-1

Login Number: 155862 List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

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Question	Answer	Comment				
Radioactivity either was not measured or, if measured, is at or below background	True					
The cooler's custody seal, if present, is intact.	True					
The cooler or samples do not appear to have been compromised or tampered with.	True					
Samples were received on ice.	True					
Cooler Temperature is acceptable.	True					
Cooler Temperature is recorded.	True					
COC is present.	True					
COC is filled out in ink and legible.	True					
COC is filled out with all pertinent information.	True					
s the Field Sampler's name present on COC?	True					
There are no discrepancies between the sample IDs on the containers and the COC.	True					
Samples are received within Holding Time (Excluding tests with immediate HTs)	True					
Sample containers have legible labels.	True					
Containers are not broken or leaking.	True					
Sample collection date/times are provided.	True					
Appropriate sample containers are used.	True					
Sample bottles are completely filled.	True					
Sample Preservation Verified	True					
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True					
/OA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A					
f necessary, staff have been informed of any short hold time or quick TAT needs	True					
Multiphasic samples are not present.	True					
Samples do not require splitting or compositing.	True					
Sampling Company provided.	True	OBG				
Samples received within 48 hours of sampling.	True					
Samples requiring field filtration have been filtered in the field.	True					
Chlorine Residual checked.	N/A					

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TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-156206-1

Client Project/Site: Former Accurate Die Cast

For:

eurofins 🙀

O'Brien & Gere Inc of North America 333 West Washington St. PO BOX 4873 East Syracuse, New York 13221

Attn: Mr. David J Carnevale

Julian Du Mis

Authorized for release by: 7/25/2019 2:48:27 PM

Julianna DuHart, Project Management Assistant I julianna.duhart@testamericainc.com

Designee for

John Schove, Project Manager II (716)504-9838

john.schove@testamericainc.com

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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.

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Definitions/Glossary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Toxicity Equivalent Factor (Dioxin)
Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-156206-1

Glossary

TEF

TEQ

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Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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

7/25/2019

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-156206-1

Job ID: 480-156206-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-156206-1

Receipt

The samples were received on 7/16/2019 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA

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

General Chemistry

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

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Detection Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-156206-1

Lab Sample ID: 480-156206-1

Client Sam	ple ID:	EFFL	UENT	071519
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Analyte	Result Qualifier	RL	MDL	Unit		ре
Total Dissolved Solids	626	10.0	4.0	mg/L	1 SM2540 C Total/NA	Α

Client Sample ID: EFFLUENT 071519	Lab Sample ID: 480-156206-2

No Detections.

Client Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 071519

Lab Sample ID: 480-156206-1

Matrix: Water

Job ID: 480-156206-1

Date Collected: 07/15/19 07:20 Date Received: 07/16/19 08:00

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	626		10.0	4.0	mg/L			07/17/19 12:12	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			07/18/19 12:47	1

Client Sample ID: EFFLUENT 071519 Lab Sample ID: 480-156206-2

Date Collected: 07/15/19 07:20 **Matrix: Water**

Date Received: 07/16/19 08:00

Method: 8260C - Volatile Organ Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	1.0	0.82	ug/L		-	07/17/19 16:32	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			07/17/19 16:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			07/17/19 16:32	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			07/17/19 16:32	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			07/17/19 16:32	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			07/17/19 16:32	1
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			07/17/19 16:32	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			07/17/19 16:32	1
1,2-Dibromoethane	ND	1.0	0.73	ug/L			07/17/19 16:32	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			07/17/19 16:32	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			07/17/19 16:32	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			07/17/19 16:32	1
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			07/17/19 16:32	1
1,4-Dichlorobenzene	ND	1.0	0.84	-			07/17/19 16:32	1
2-Butanone (MEK)	ND	10	1.3	ug/L			07/17/19 16:32	1
2-Hexanone	ND	5.0	1.2	ug/L			07/17/19 16:32	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1	ug/L			07/17/19 16:32	1
Acetone	ND	10	3.0	ug/L			07/17/19 16:32	1
Benzene	ND	1.0	0.41	ug/L			07/17/19 16:32	1
Bromodichloromethane	ND	1.0	0.39	ug/L			07/17/19 16:32	1
Bromoform	ND	1.0	0.26	ug/L			07/17/19 16:32	1
Bromomethane	ND	1.0	0.69	ug/L			07/17/19 16:32	1
Carbon disulfide	ND	1.0	0.19	ug/L			07/17/19 16:32	1
Carbon tetrachloride	ND	1.0	0.27	ug/L			07/17/19 16:32	1
Chlorobenzene	ND	1.0	0.75	ug/L			07/17/19 16:32	1
Chloroethane	ND	1.0	0.32	ug/L			07/17/19 16:32	1
Chloroform	ND	1.0	0.34	ug/L			07/17/19 16:32	1
Chloromethane	ND	1.0	0.35	ug/L			07/17/19 16:32	1
cis-1,2-Dichloroethene	ND	1.0	0.81	ug/L			07/17/19 16:32	1
cis-1,3-Dichloropropene	ND	1.0	0.36	ug/L			07/17/19 16:32	1
Cyclohexane	ND	1.0	0.18				07/17/19 16:32	1
Dibromochloromethane	ND	1.0	0.32	ug/L			07/17/19 16:32	1
Dichlorodifluoromethane	ND	1.0	0.68	ug/L			07/17/19 16:32	1
Ethylbenzene	ND	1.0	0.74	ug/L			07/17/19 16:32	1
Isopropylbenzene	ND	1.0	0.79	ug/L			07/17/19 16:32	1
Methyl acetate	ND	2.5		ug/L			07/17/19 16:32	1
Methyl tert-butyl ether	ND	1.0	0.16	.			07/17/19 16:32	1
Methylcyclohexane	ND	1.0		ug/L			07/17/19 16:32	1
Methylene Chloride	ND	1.0	0.44				07/17/19 16:32	1
Styrene	ND	1.0		ug/L			07/17/19 16:32	1

Eurofins TestAmerica, Buffalo

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Client Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Lab Sample ID: 480-156206-2

D Sample ID. 400-150200-2

Matrix: Water

Job ID: 480-156206-1

Client Sample ID: EFFLUENT 071519

Date Collected: 07/15/19 07:20 Date Received: 07/16/19 08:00

Method: 8260C - Volatile O	•	•	•		l lm:4	ь.	Duamanad	Amalumad	Dil Fac
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.36	ug/L			07/17/19 16:32	1
Toluene	ND		1.0	0.51	ug/L			07/17/19 16:32	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/17/19 16:32	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/17/19 16:32	1
Trichloroethene	ND		1.0	0.46	ug/L			07/17/19 16:32	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/17/19 16:32	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/17/19 16:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/17/19 16:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120			-		07/17/19 16:32	1
4-Bromofluorobenzene (Surr)	98		73 - 120					07/17/19 16:32	1
Dibromofluoromethane (Surr)	103		75 - 123					07/17/19 16:32	1
Toluene-d8 (Surr)	100		80 - 120					07/17/19 16:32	1

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Surrogate Summary

Client: O'Brien & Gere Inc of North America
Project/Site: Former Accurate Die Cast

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

_			Pe	ercent Surre	ogate Reco
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-156206-2	EFFLUENT 071519	106	98	103	100
LCS 480-482389/5	Lab Control Sample	102	95	98	101
MB 480-482389/7	Method Blank	106	95	97	100
Surrogate Legend					
DCA = 1,2-Dichloroe	thane-d4 (Surr)				

DBFM = Dibromofluoromethane (Surr) TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

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Job ID: 480-156206-1

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QC Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-156206-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-482389/7

Matrix: Water

Analysis Batch: 482389

Client Samp	ole II	D: N	l letho	od B	lank
	Pre	o Ty	ype: '	Tota	I/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/17/19 10:59	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/17/19 10:59	•
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/17/19 10:59	•
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/17/19 10:59	
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/17/19 10:59	•
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/17/19 10:59	
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/19 10:59	• • • • • • • •
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/17/19 10:59	
1,2-Dibromoethane	ND		1.0		ug/L			07/17/19 10:59	
1,2-Dichlorobenzene	ND		1.0		ug/L			07/17/19 10:59	• • • • • • • •
1,2-Dichloroethane	ND		1.0		ug/L			07/17/19 10:59	
1,2-Dichloropropane	ND		1.0		ug/L			07/17/19 10:59	
1,3-Dichlorobenzene	ND		1.0		ug/L			07/17/19 10:59	,
1,4-Dichlorobenzene	ND		1.0		ug/L			07/17/19 10:59	
2-Butanone (MEK)	ND		10		ug/L			07/17/19 10:59	
2-Hexanone	ND		5.0		ug/L			07/17/19 10:59	
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			07/17/19 10:59	
Acetone	ND		10		ug/L			07/17/19 10:59	
Benzene	ND		1.0		ug/L			07/17/19 10:59	
Bromodichloromethane	ND		1.0		ug/L			07/17/19 10:59	
Bromoform	ND		1.0		ug/L			07/17/19 10:59	
Bromomethane	ND		1.0		ug/L			07/17/19 10:59	· · · · · .
Carbon disulfide	ND ND		1.0		ug/L			07/17/19 10:59	
Carbon tetrachloride	ND		1.0		ug/L ug/L			07/17/19 10:59	
Chlorobenzene	ND		1.0		ug/L ug/L			07/17/19 10:59	,
	ND ND				_				
Chloroethane Chloroform	ND ND		1.0 1.0		ug/L ug/L			07/17/19 10:59 07/17/19 10:59	•
Chloromethane	ND				-				
	ND ND		1.0		ug/L			07/17/19 10:59	,
cis-1,2-Dichloroethene	ND ND		1.0		ug/L			07/17/19 10:59	•
cis-1,3-Dichloropropene			1.0		ug/L			07/17/19 10:59	
Cyclohexane	ND		1.0		ug/L			07/17/19 10:59	
Dibromochloromethane	ND		1.0		ug/L			07/17/19 10:59	
Dichlorodifluoromethane	ND		1.0		ug/L			07/17/19 10:59	
Ethylbenzene	ND		1.0		ug/L			07/17/19 10:59	•
Isopropylbenzene	ND		1.0		ug/L			07/17/19 10:59	•
Methyl acetate	ND		2.5		ug/L			07/17/19 10:59	
Methyl tert-butyl ether	ND		1.0		ug/L			07/17/19 10:59	•
Methylcyclohexane	ND		1.0		ug/L			07/17/19 10:59	,
Methylene Chloride	ND		1.0		ug/L			07/17/19 10:59	
Styrene	ND		1.0		ug/L			07/17/19 10:59	•
Tetrachloroethene	ND		1.0		ug/L			07/17/19 10:59	•
Toluene	ND		1.0		ug/L			07/17/19 10:59	
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/17/19 10:59	
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/17/19 10:59	•
Trichloroethene	ND		1.0	0.46	ug/L			07/17/19 10:59	•
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/17/19 10:59	
Vinyl chloride	ND		1.0	0.90	ug/L			07/17/19 10:59	•
Xylenes, Total	ND		2.0	0.66	ug/L			07/17/19 10:59	

Eurofins TestAmerica, Buffalo

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QC Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-156206-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-482389/7

Lab Sample ID: LCS 480-482389/5

Matrix: Water

Matrix: Water

Analysis Batch: 482389

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 106 77 - 120 07/17/19 10:59 4-Bromofluorobenzene (Surr) 95 73 - 120 07/17/19 10:59 75 - 123 Dibromofluoromethane (Surr) 97 07/17/19 10:59 Toluene-d8 (Surr) 100 80 - 120 07/17/19 10:59

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 482389

,,	Spike	LCS	LCS			%Rec.	
Analyte	Added	Result	Qualifier Unit	t D	%Rec	Limits	
1,1,1-Trichloroethane	25.0	23.7	ug/L	. –	95	73 - 126	
1,1,2,2-Tetrachloroethane	25.0	26.8	ug/L	_	107	76 - 120	
1,1,2-Trichloro-1,2,2-trifluoroetha	25.0	24.3	ug/L	-	97	61 - 148	
ne							
1,1,2-Trichloroethane	25.0	26.6	ug/L		107	76 - 122	
1,1-Dichloroethane	25.0	24.6	ug/L		99	77 - 120	
1,1-Dichloroethene	25.0	23.6	ug/L		94	66 - 127	
1,2,4-Trichlorobenzene	25.0	22.1	ug/L		88	79 - 122	
1,2-Dibromo-3-Chloropropane	25.0	21.2	ug/L	-	85	56 - 134	
1,2-Dibromoethane	25.0	24.8	ug/L	-	99	77 - 120	
1,2-Dichlorobenzene	25.0	23.2	ug/L	-	93	80 - 124	
1,2-Dichloroethane	25.0	24.2	ug/L	-	97	75 - 120	
1,2-Dichloropropane	25.0	26.7	ug/L	-	107	76 - 120	
1,3-Dichlorobenzene	25.0	24.0	ug/L	-	96	77 - 120	
1,4-Dichlorobenzene	25.0	24.0	ug/L	_	96	80 - 120	
2-Butanone (MEK)	125	142	ug/L	_	114	57 - 140	
2-Hexanone	125	136	ug/L		109	65 - 127	
4-Methyl-2-pentanone (MIBK)	125	133	ug/L	_	107	71 - 125	
Acetone	125	141	ug/L		113	56 ₋ 142	
Benzene	25.0	26.2	ug/L		105	71 - 124	
Bromodichloromethane	25.0	25.1	ug/L		100	80 - 122	
Bromoform	25.0	22.1	ug/L		89	61 ₋ 132	
Bromomethane	25.0	30.5	ug/L		122	55 - 144	
Carbon disulfide	25.0	23.5	ug/L		94	59 ₋ 134	
Carbon tetrachloride	25.0	22.6	ug/L		91	72 - 134	
Chlorobenzene	25.0	24.0	ug/L		96	80 - 120	
Chloroethane	25.0	26.1	ug/L		104	69 - 136	
Chloroform	25.0	23.4	ug/L		94	73 - 127	
Chloromethane	25.0	25.4	ug/L		102	68 - 124	
cis-1,2-Dichloroethene	25.0	23.2	ug/L		93	74 - 124	
cis-1,3-Dichloropropene	25.0	26.4	ug/L		106	74 - 124	
Cyclohexane	25.0	23.4	ug/L		94	59 ₋ 135	
Dibromochloromethane	25.0	22.6	ug/L		91	75 - 125	
Dichlorodifluoromethane	25.0	26.0	ug/L		104	59 ₋ 135	
Ethylbenzene	25.0	25.0	ug/L		100	77 - 123	
Isopropylbenzene	25.0	24.5	ug/L ug/L		98	77 - 123 77 - 122	
Methyl acetate	50.0	52.9	ug/L ug/L		106	74 - 122 74 - 133	
	25.0	23.0			92	74 - 133 77 - 120	
Methyl tert-butyl ether			ug/L				
Methylcyclohexane	25.0	24.2	ug/L	-	97	68 - 134	

Eurofins TestAmerica, Buffalo

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7/25/2019

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-156206-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-482389/5

Matrix: Water

Analysis Batch: 482389

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec. **Analyte** Added Result Qualifier Unit %Rec Limits Methylene Chloride 24.2 25.0 ug/L 97 75 - 124 Styrene 25.0 ug/L 97 80 - 120 24.4 Tetrachloroethene 25.0 24.0 ug/L 96 74 - 122 25.0 101 Toluene 254 ug/L 80 - 122trans-1,2-Dichloroethene 25.0 96 73 - 127 24.1 ug/L trans-1,3-Dichloropropene 25.0 26.1 104 80 - 120 ug/L Trichloroethene 25.0 101 74 - 123 25.2 ug/L 25.0 ug/L Trichlorofluoromethane 29.3 117 62 - 150

26.1

ug/L

25.0

LCS LCS

%Recovery Qualifier Limits Surrogate 102 77 - 120 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) 95 73 - 120 Dibromofluoromethane (Surr) 98 75 - 123 Toluene-d8 (Surr) 101 80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-482668/1

Matrix: Water

Vinyl chloride

Analysis Batch: 482668

Client Sample ID: Method Blank

65 - 133

Prep Type: Total/NA

Lab Sample ID: LCS 480-482668/2

MB MB

Result Qualifier RL**RL** Unit Dil Fac Analyte Prepared Analyzed **Total Suspended Solids** $\overline{\mathsf{ND}}$ 10 1.0 mg/L 07/18/19 12:47

Client Sample ID: Lab Control Sample

104

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 482668

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits **Total Suspended Solids** 276 269.2 98 88 - 110 mg/L

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-482456/1

Lab Sample ID: LCS 480-482456/2

Matrix: Water

Analysis Batch: 482456

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Analyte Result Qualifier RL **MDL** Unit Dil Fac Prepared Analyzed **Total Dissolved Solids** 10.0 4.0 mg/L 07/17/19 12:12 ND

> Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 482456

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Total Dissolved Solids 500 500.0 mg/L 100 85 - 115

Eurofins TestAmerica, Buffalo

QC Sample Results

Job ID: 480-156206-1 Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Method: SM2540 C - Total Dissolved Solids (Continued)

Lab Sample ID: 480-156206-1 DU Client Sample ID: EFFLUENT 071519 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 482456 DU DU RPD Sample Sample

Analyte **Result Qualifier** Result Qualifier Unit RPD Limit Total Dissolved Solids 0.5 626 623.0 mg/L 10

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

GC/MS VOA

Analysis Batch: 482389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156206-2	EFFLUENT 071519	Total/NA	Water	8260C	
MB 480-482389/7	Method Blank	Total/NA	Water	8260C	
LCS 480-482389/5	Lab Control Sample	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 482456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156206-1	EFFLUENT 071519	Total/NA	Water	SM2540 C	-
MB 480-482456/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-482456/2	Lab Control Sample	Total/NA	Water	SM2540 C	
480-156206-1 DU	EFFLUENT 071519	Total/NA	Water	SM2540 C	

Analysis Batch: 482668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156206-1	EFFLUENT 071519	Total/NA	Water	SM 2540D	
MB 480-482668/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-482668/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Job ID: 480-156206-1

Lab Chronicle

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-156206-1

Lab Sample ID: 480-156206-1

Matrix: Water

Client Sample ID: EFFLUENT 071519

Date Collected: 07/15/19 07:20 Date Received: 07/16/19 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	482668	07/18/19 12:47	CSS	TAL BUF
Total/NA	Analysis	SM2540 C		1	482456	07/17/19 12:12	CSS	TAL BUF

Client Sample ID: EFFLUENT 071519 Lab Sample ID: 480-156206-2

Date Collected: 07/15/19 07:20 Date Received: 07/16/19 08:00 Matrix: Water

Batch Batch Dilution Batch **Prepared** Method **Prep Type** Type Run **Factor** Number or Analyzed Analyst Lab TAL BUF Total/NA Analysis 8260C 482389 07/17/19 16:32 KMN

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-156206-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-156206-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Sample Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-156206-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-156206-1	EFFLUENT 071519	Water	07/15/19 07:20	07/16/19 08:00	
480-156206-2	EFFLUENT 071519	Water	07/15/19 07:20	07/16/19 08:00	

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Chain of Custody Record

Eurofins TestAmerica, Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991

Environment Testing

s eurofins

TestAmerica

O AsNaO2
P Wa2O4S
Q Wa2O3
R Na2S203
R Na2S203
R Na2S204
TSP Dodecahydrate
Vactore
ICAA
IH 4-5
her (specify) Special Instructions/Note: Ver. 01/16/2019 Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Special Instructions/QC Requirements: COC No. 480-122354-10587.1 reservation Codes: 0.20 Page: Page 1 of 1 Job#. A - HCL
B - NaOH
C - Zn Acetate
D - Nitnc Acid
E - NaHSO4
F - MeOH
G - Amrhor 480-156206 Chain of Custody TIUN IstoT Analysis Requested Method of Shipment Cooler Temperature(s) C and Other Remarks Lab PM: Schove, John R E-Mail: john schove@testamencainc.com W Seoc - Volatile Organic Compounds Time Hom MS/MSD (Yes or No) Field Filtered Sample (Yes or No) ompany n 980 Company water Preservation Code: Water Matrix Radiological Type (C=comp, G=grab) Sample MARIN KOUNNECKE 6 315-739-1300 1040 1:30 Sample Date Unknown FAT Requested (days): Due Date Requested: 2-11-19 Sample Date 61-51-4 4-15-19 PO#: 11900114 Project #: 48008584 SSOW#: Poison B Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify) Custody Seal No. 333 West Washington St. PO BOX 4873 315-956-6100(Tel) 315-463-7554(Fax) 071519 Flammable 7-1 O'Brien & Gere Inc of North America Possible Hazard Identification 071519 Empty Kit Relinquished by: Custody Seals Intact: Former Accurate Die Cast Sample Identification Client Information E-FLUENT Yuri Veliz@obg.com Non-Hazard East Syracuse Mr. Yuri Veliz State, Zip: NY, 13221 Effluent

Client: O'Brien & Gere Inc of North America

Job Number: 480-156206-1

Login Number: 156206 List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Harper, Marcus D

Radioactivity either was not measured or, if measured, is at or below background The cooler's custody seal, if present, is intact. The cooler or samples do not appear to have been compromised or tampered with. The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. True Cooler Temperature is acceptable. True Cooler Temperature is recorded. True COCI is present. True COCI is filled out in ink and legible. True COCI is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the sample IDs on the containers and the COC. Samples are received within Holding Time (Excluding tests with immediate HTS). Sample containers have legible labels. True Containers are not broken or leaking. True Sample collection date/times are provided. True Appropriate sample containers are used. True Sample bottles are completely filled. True Sample preservation Verified True There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. If necessary, staff have been informed of any short hold time or quick TAT need Multiphasic samples are not present. True Samples do not require splitting or compositing. True Samples received within 48 hours of sampling. True Samples received within 48 hours of sampling. Samples received within 48 hours of sampling.	Question	Answer	Comment
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Samples requiring field filtration have been filtered in the field. N/A	Sampling Company provided.	True	SYR
	Samples received within 48 hours of sampling.	True	
	Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked. N/A	Chlorine Residual checked.	N/A	



Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-156584-1

Client Project/Site: Former Accurate Die Cast

O'Brien & Gere Inc of North America 333 West Washington St. PO BOX 4873 East Syracuse, New York 13221

Attn: Mr. David J Carnevale

Authorized for release by: 7/31/2019 3:42:11 PM

Rebecca Jones, Project Management Assistant I rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II (716)504-9838

john.schove@testamericainc.com

.....LINKS

Review your project results through Total Access

Have a Question?



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

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Definitions/Glossary

Client: O'Brien & Gere Inc of North America Job ID: 480-156584-1

Project/Site: Former Accurate Die Cast

Toxicity Equivalent Quotient (Dioxin)

Glossary

TEQ

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)

7/31/2019

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Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-156584-1

Job ID: 480-156584-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-156584-1

Receipt

The sample was received on 7/23/2019 8:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

General Chemistry

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

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Detection Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-156584-1

Client Sample ID: effluent 072219

Lab Sample ID: 480-156584-1

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type)
Total Dissolved Solids	630	10.0	4.0	mg/L	1		SM2540 C	Total/NA	

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Client Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Client Sample ID: effluent 072219

Lab Sample ID: 480-156584-1

Matrix: Water

Job ID: 480-156584-1

Date	Collected:	0//22/19	07:15
Date	Received:	07/23/19	08:00

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	630		10.0	4.0	mg/L			07/24/19 11:44	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	-	4.0	4.0	mg/L			07/25/19 10:38	1

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Job ID: 480-156584-1

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client: O'Brien & Gere Inc of North America

Project/Site: Former Accurate Die Cast

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-483703/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 483703

мв мв Analyte Result Qualifier RL RL Unit Prepared Analyzed Dil Fac 1.0 07/25/19 10:38 Total Suspended Solids 1.0 mg/L ND

Lab Sample ID: LCS 480-483703/2 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 483703

Spike LCS LCS %Rec. Added Result Qualifier Limits Unit D %Rec **Total Suspended Solids** 274 269.2 mg/L 98 88 - 110

Lab Sample ID: 480-156584-1 DU Client Sample ID: effluent 072219

Matrix: Water

Analysis Batch: 483703

Sample Sample DU DU RPD Result Qualifier Result Qualifier Limit Analyte RPD Unit Total Suspended Solids ND ND mg/L NC 10

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-483509/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 483509

MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac **Total Dissolved Solids** ND 10.0 4.0 mg/L 07/24/19 11:44

Lab Sample ID: LCS 480-483509/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 483509

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Total Dissolved Solids 502 461.0 mg/L 92 85 - 115

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-156584-1

General Chemistry

Analysis Batch: 483509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156584-1	effluent 072219	Total/NA	Water	SM2540 C	
MB 480-483509/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-483509/2	Lab Control Sample	Total/NA	Water	SM2540 C	

Analysis Batch: 483703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Pre	ep Batch
480-156584-1	effluent 072219	Total/NA	Water	SM 2540D	
MB 480-483703/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-483703/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-156584-1 DU	effluent 072219	Total/NA	Water	SM 2540D	

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Lab Chronicle

Client: O'Brien & Gere Inc of North America Job ID: 480-156584-1

Project/Site: Former Accurate Die Cast

Client Sample ID: effluent 072219

Lab Sample ID: 480-156584-1

Matrix: Water

Date Collected: 07/22/19 07:15 Date Received: 07/23/19 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	483703	07/25/19 10:38	CSS	TAL BUF
Total/NA	Analysis	SM2540 C		1	483509	07/24/19 11:44	CSS	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-156584-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-156584-1

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Sample Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-156584-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-156584-1	effluent 072219	Water	07/22/19 07:15	07/23/19 08:00	

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10 Hazelwood Drive Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991	Chain of Custody Record	y Record	10 0	Environment Testing TestAmerica
Client Information	Sampler Rownell	Lab PM. Schove, John R	Cyracuse 180-12	COC No. 480-122376-10586.1
Cliont Contact Mr. Yuri Veliz	Phone: 315-729-1300	E-Mail. John.schove@testamericainc.com	#225 Page	Page. Page 1 of 1
Company: O'Brien & Gere Inc of North America		Analysis Re		
Address. 333 West Washington St. PO BOX 4873	Due Date Requested:		Prese	ion Coc
City. East Syracuse State, Zip.	TAT Requested (days):		B - NaCh B - NaCh C - Zh Acel D - Nithe A	1- TOC. M. Poxalle 1- NO. M. None 2- Zn Acetate O. AsNAO2 3- Nitric Acid P. Na2O4S 0- Nitric Co. M. NaVSOA
NY, 13221 Phone:	#Od		A P	
315-956-6100(Tel) 315-463-7554(Fax)	11900114		H-AS	Acid
Yuri.Veliz@obg.com	***	(oN ebil	S J DIVater	
Project Name. Former Accurate Die Cast	Project # 48008584	og pa		
Site:	SSOW#:	SD (Y	of con	
Samula Hantification	Sample (G=comp. Sample (Wesselen Sample Type Sample C=comp. Sample Time G=crash) section (Sample Time G=crash) section (Sample Sample S	ised Fittened 5 Sedoc_Caled - T	Fotal Number	Special Instructions (Mote.
oampie identification	Preserva	X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	openia manaciona/note,
Effluent An 23.19	7-22-19 17.15 C Water		7	
5/			S	
0 11 6				
11.00				Custody
			480-156	10000
100	Doison B	Sample Disposal (A fee may be	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	ger than 1 month)
Deliverable Requested: 1, III, III, IV, Other (specify)		Special Instructions/QC Requirements	nood by tab	
Empty Kit Relinquished by:	Date: /	Time;	Method of Shipment	
Reinquistrator Laruelle	51:6/ 6:15	19	A 72-19 0	1911 Company
Relinquished by ALIGIII L.	Date/Time.	Reprived by Received by	Date/Time.	OSCO Company
Custody Seals Intact Custody Seal No.		Cooler Temperalure(s) "C and Other Remarks	2,9 H 2,9	
A les a NO			71,	Ver: 01/16/2019

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America Job Number: 480-156584-1

Login Number: 156584 List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Yeager, Brian A

oroator rougor, Brian A		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OBG
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-156914-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America 333 West Washington St. PO BOX 4873 East Syracuse, New York 13221

Attn: Mr. David J Carnevale

Julian De Phy

Authorized for release by: 8/8/2019 12:04:27 PM Julianna DuHart, Project Management Assistant I julianna.duhart@testamericainc.com

Designee for

John Schove, Project Manager II (716)504-9838

john.schove@testamericainc.com

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Have a Question?



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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.

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Definitions/Glossary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-156914-1

Glossary

TEF

TEQ

Clossury	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-156914-1

Job ID: 480-156914-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-156914-1

Receipt

The sample was received on 7/30/2019 8:15 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

General Chemistry

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

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Detection Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-156914-1

Client Sample ID: EFFLUENT 072919

Lab Sample ID: 480-156914-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Total Dissolved Solids	587	10.0	4.0 mg/L		SM2540 C	Total/NA

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Client Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-156914-1

Client Sample ID: EFFLUENT 072919

Lab Sample ID: 480-156914-1

Date Collected: 07/29/19 07:00 Date Received: 07/30/19 08:15 Matrix: Water

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	587		10.0	4.0	mg/L			07/31/19 09:09	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			07/31/19 13:46	1

Client: O'Brien & Gere Inc of North America Job ID: 480-156914-1 Project/Site: Former Accurate Die Cast

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-484727/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 484727

MB MB

Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac 1.0 Total Suspended Solids 1.0 mg/L 07/31/19 13:46 $\overline{\mathsf{ND}}$

Lab Sample ID: LCS 480-484727/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 484727

LCS LCS Spike %Rec. Added Result Qualifier Unit D %Rec Limits 279 **Total Suspended Solids** 271.6 mg/L 97 88 - 110

Lab Sample ID: 480-156914-1 DU Client Sample ID: EFFLUENT 072919

Matrix: Water

Analysis Batch: 484727

Sample Sample DU DU **RPD** Analyte Result Qualifier Result Qualifier Unit ח RPD Limit Total Suspended Solids ND NC ND mg/L 10

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-484651/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 484651

MB MB RL Analyte Result Qualifier **MDL** Unit Prepared Analyzed Dil Fac Total Dissolved Solids 10.0 ND 4.0 mg/L 07/31/19 09:09

Lab Sample ID: LCS 480-484651/2 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 484651

Spike LCS LCS %Rec. Added Limits Analyte Result Qualifier Unit %Rec 85 - 115 **Total Dissolved Solids** 502 514.0 mg/L 102

Lab Sample ID: 480-156914-1 DU Client Sample ID: EFFLUENT 072919 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 484651 Sample Sample DU DU

RPD Analyte Result Qualifier Result Qualifier Unit Limit 592.0 **Total Dissolved Solids** 587 mg/L NC

Eurofins TestAmerica, Buffalo

8/8/2019

Prep Type: Total/NA

Prep Type: Total/NA

RPD

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-156914-1

General Chemistry

Analysis Batch: 484651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156914-1	EFFLUENT 072919	Total/NA	Water	SM2540 C	
MB 480-484651/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-484651/2	Lab Control Sample	Total/NA	Water	SM2540 C	
480-156914-1 DU	EFFLUENT 072919	Total/NA	Water	SM2540 C	

Analysis Batch: 484727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156914-1	EFFLUENT 072919	Total/NA	Water	SM 2540D	
MB 480-484727/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-484727/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-156914-1 DU	EFFLUENT 072919	Total/NA	Water	SM 2540D	

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Lab Chronicle

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 072919

Lab Sample ID: 480-156914-1

Matrix: Water

Job ID: 480-156914-1

Date Collected: 07/29/19 07:00 Date Received: 07/30/19 08:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D			484727	07/31/19 13:46	CSS	TAL BUF
Total/NA	Analysis	SM2540 C		1	484651	07/31/19 09:09	CSS	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-156914-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

1	Authority	Program	EPA Region	Identification Number	Expiration Date
1	New York	NELAP	2	10026	03-31-20

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-156914-1

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"
SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Sample Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-156914-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-156914-1	EFFLUENT 072919	Water	07/29/19 07:00	07/30/19 08:15	

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Client: O'Brien & Gere Inc of North America

Job Number: 480-156914-1

Login Number: 156914 List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

ordator. Gtopa, Erik G		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OBG
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-157359-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America 333 West Washington St. PO BOX 4873 East Syracuse, New York 13221

Attn: Mr. David J Carnevale

J

Authorized for release by: 8/15/2019 7:06:14 PM

Rebecca Jones, Project Management Assistant I rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II (716)504-9838

john.schove@testamericainc.com

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

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Definitions/Glossary

Client: O'Brien & Gere Inc of North America Job ID: 480-157359-1

Project/Site: Former Accurate Die Cast

Toxicity Equivalent Quotient (Dioxin)

Glossary

TEQ

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
Percent Recovery
Contains Free Liquid
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)
Dilution Factor
Detection Limit (DoD/DOE)
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
Decision Level Concentration (Radiochemistry)
Estimated Detection Limit (Dioxin)
Limit of Detection (DoD/DOE)
Limit of Quantitation (DoD/DOE)
Minimum Detectable Activity (Radiochemistry)
Minimum Detectable Concentration (Radiochemistry)
Method Detection Limit
Minimum Level (Dioxin)
Not Calculated
Not Detected at the reporting limit (or MDL or EDL if shown)
Practical Quantitation Limit
Quality Control
Relative Error Ratio (Radiochemistry)
Reporting Limit or Requested Limit (Radiochemistry)
Relative Percent Difference, a measure of the relative difference between two points
Toxicity Equivalent Factor (Dioxin)

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-157359-1

Job ID: 480-157359-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-157359-1

Receipt

The samples were received on 8/8/2019 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

GC/MS VOA

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

General Chemistry

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

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Detection Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-157359-1

Client Sample ID: EFFLUI	Client Sample ID: EFFLUENT 080719				Lab Sample ID: 480-157359-1				
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	613		10.0	4.0	mg/L	1	_	SM2540 C	Total/NA
Client Sample ID: BETWE	EN CARBONS	080719				Lal	b S	ample ID:	480-157359-2
No Detections									

No Detections.

Client Sample ID: EFFLUENT 080719 Lab Sample ID: 480-157359-3

No Detections.

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Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-157359-1

Client Sample ID: EFFLUENT 080719

Date Collected: 08/07/19 07:20 Date Received: 08/08/19 08:00

Lab Sample ID: 480-157359-1

Lab Sample ID: 480-157359-2

Matrix: Water

Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	613		10.0	4.0	mg/L			08/09/19 15:10	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L	 _		08/13/19 14:14	1

Client Sample ID: BETWEEN CARBONS 080719

Date Collected: 08/07/19 07:20 Date Received: 08/08/19 08:00

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND ND	1.0	0.21	ug/L			08/12/19 20:37	1
cis-1,2-Dichloroethene	ND	1.0	0.81	ug/L			08/12/19 20:37	1
Methylene Chloride	ND	1.0	0.44	ug/L			08/12/19 20:37	1
Tetrachloroethene	ND	1.0	0.36	ug/L			08/12/19 20:37	1
Toluene	ND	1.0	0.51	ug/L			08/12/19 20:37	1
trans-1,2-Dichloroethene	ND	1.0	0.90	ug/L			08/12/19 20:37	1
Trichloroethene	ND	1.0	0.46	ug/L			08/12/19 20:37	1

Surroga	ate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dici	nloroethane-d4 (Surr)	101		77 - 120	·		08/12/19 20:37	1
4-Brom	ofluorobenzene (Surr)	92		73 - 120			08/12/19 20:37	1
Toluene	e-d8 (Surr)	96		80 - 120			08/12/19 20:37	1
Dibrom	ofluoromethane (Surr)	100		75 - 123			08/12/19 20:37	1

Client Sample ID: EFFLUENT 080719

Date Collected: 08/07/19 07:20

Date Received: 08/08/19 08:00

Lab Sample	ID: 480-15/359-3
	Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/12/19 21:00	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/12/19 21:00	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/12/19 21:00	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/12/19 21:00	1
Toluene	ND		1.0	0.51	ug/L			08/12/19 21:00	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/12/19 21:00	1
Trichloroethene	ND		1.0	0.46	ug/L			08/12/19 21:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120			-		08/12/19 21:00	1
4-Bromofluorobenzene (Surr)	96		73 - 120					08/12/19 21:00	1
Toluene-d8 (Surr)	97		80 - 120					08/12/19 21:00	1
Dibromofluoromethane (Surr)	108		75 - 123					08/12/19 21:00	1

Surrogate Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-157359-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

DCA BFB TOL DBFM Lab Sample ID (77-120) (73-120) (80-120) (75-123)
Lab Sample ID Client Sample ID (77-120) (73-120) (80-120) (75-123)
480-157359-2 BETWEEN CARBONS 080719 101 92 96 100
480-157359-3 EFFLUENT 080719 109 96 97 108
LCS 480-486461/5 Lab Control Sample 102 99 98 101
MB 480-486461/7 Method Blank 102 96 98 102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Total/NA

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Job ID: 480-157359-1

Prep Type: Total/NA

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-486461/7 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 486461

-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/12/19 13:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/12/19 13:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/12/19 13:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/12/19 13:35	1
Toluene	ND		1.0	0.51	ug/L			08/12/19 13:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/12/19 13:35	1
Trichloroethene	ND		1.0	0.46	ug/L			08/12/19 13:35	1

MB MB %Recovery Dil Fac Qualifier Limits Prepared Analyzed Surrogate 1,2-Dichloroethane-d4 (Surr) 102 77 - 120 08/12/19 13:35 4-Bromofluorobenzene (Surr) 96 73 - 120 08/12/19 13:35 Toluene-d8 (Surr) 98 80 - 120 08/12/19 13:35 Dibromofluoromethane (Surr) 102 75 - 123 08/12/19 13:35

Lab Sample ID: LCS 480-486461/5

Matrix: Water

Analysis Batch: 486461

Client Sample ID: Lab Control Sample Prep Type: Total/NA

LCS LCS Spike %Rec. Added Result Qualifier Analyte Unit %Rec Limits 25.0 1,1,2,2-Tetrachloroethane 22.8 91 76 - 120 ug/L cis-1,2-Dichloroethene 25.0 23.9 ug/L 95 74 - 124 Methylene Chloride 25.0 23.6 94 75 - 124 ug/L Tetrachloroethene 25.0 24.0 ug/L 96 74 - 122 Toluene 25.0 24.2 ug/L 97 80 - 122 trans-1,2-Dichloroethene 25.0 25.5 ug/L 102 73 - 127 Trichloroethene 25.0 25.0 ug/L 100 74 - 123

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 102 77 - 120 4-Bromofluorobenzene (Surr) 99 73 - 120 Toluene-d8 (Surr) 98 80 - 120 101 75 - 123 Dibromofluoromethane (Surr)

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-486772/1

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Matrix. Water

Analysis Batch: 486772

	MB	MB							
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			08/13/19 14:14	1

Lab Sample ID: LCS 480-486772/2 Client Sample ID: Lab Control Sample
Matrix: Water Prep Type: Total/NA

Analysis Batch: 486772

Analysis Batch: 400772								
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Suspended Solids	251	237.6		mg/L		95	88 - 110	

Eurofins TestAmerica, Buffalo

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QC Sample Results

Client: O'Brien & Gere Inc of North America

Job ID: 480-157359-1

Project/Site: Former Accurate Die Cast

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-486305/1 Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA

Analysis Batch: 486305 MB MB

Analyte		ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	10.0	4.0	mg/L			08/09/19 15:10	1

Lab Sample ID: LCS 480-486305/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 486305

LCS LCS Spike %Rec. Added Result Qualifier Unit %Rec Limits D

Total Dissolved Solids 500 478.0 mg/L 96 85 - 115

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

GC/MS VOA

Analysis Batch: 486461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157359-2	BETWEEN CARBONS 080719	Total/NA	Water	8260C	
480-157359-3	EFFLUENT 080719	Total/NA	Water	8260C	
MB 480-486461/7	Method Blank	Total/NA	Water	8260C	
LCS 480-486461/5	Lab Control Sample	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 486305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157359-1	EFFLUENT 080719	Total/NA	Water	SM2540 C	
MB 480-486305/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-486305/2	Lab Control Sample	Total/NA	Water	SM2540 C	

Analysis Batch: 486772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157359-1	EFFLUENT 080719	Total/NA	Water	SM 2540D	
MB 480-486772/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-486772/2	Lah Control Sample	Total/NA	Water	SM 2540D	

Job ID: 480-157359-1

Lab Chronicle

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Lab Sample ID: 480-157359-1

Matrix: Water

Job ID: 480-157359-1

Client Sample ID: EFFLUENT 080719

Date Collected: 08/07/19 07:20 Date Received: 08/08/19 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	486772	08/13/19 14:14	CSS	TAL BUF
Total/NA	Analysis	SM2540 C		1	486305	08/09/19 15:10	BBB	TAL BUF

Client Sample ID: BETWEEN CARBONS 080719

Lab Sample ID: 480-157359-2

Matrix: Water

Date Collected: 08/07/19 07:20 Date Received: 08/08/19 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	486461	08/12/19 20:37	OMI	TAL BUF

Client Sample ID: EFFLUENT 080719

Lab Sample ID: 480-157359-3

Matrix: Water

Date Collected: 08/07/19 07:20 Date Received: 08/08/19 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	486461	08/12/19 21:00	OMI	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-157359-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-157359-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Sample Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-157359-1

480-157359-2 BETWEEN CARBONS 080719 Water 08/07/19 07:20 08/08/19 08:00	Lab Sample ID	Client Sample ID	Matrix	Collected	Received
	480-157359-1	EFFLUENT 080719	Water	08/07/19 07:20	08/08/19 08:00
480-157359-3 EFFLUENT 080719 Water 08/07/19 07:20 08/08/19 08:00	480-157359-2	BETWEEN CARBONS 080719	Water	08/07/19 07:20	08/08/19 08:00
	480-157359-3	EFFLUENT 080719	Water	08/07/19 07:20	08/08/19 08:00

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Chain of Custody Record

rofins TestAmerica, Buffalo

Phone: 716-691-2600 Fax: 716-691-7991

Amherst, NY 14228-2298

0 Hazelwood Drive

V - MCAA W - pH 4-5 Z - other (specify) Special Instructions/Note: Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Month COC No: 480-122341-10588,1 Preservation Codes 800 480-157359 Chain of Custody Page: Page 1 of 1 Job#: J - DI Water K - EDTA L - EDA Total Number of containers 30 ethod of Shipment Analysis Requested Cooler Temperature(s) "C and Other Remarks Special Instructions/QC Requirements John.schove@testamericainc.com 3 260C - Volatile Organic Compounds Lab PM. Schove, John R. E-Mail: 2540D - Total Suspended Solids water A Z Preservation Code: Matrix Water Water Radiological Type (C=comp, G=grab) 9:50 Sample 10081-929-1300 Koennec, 3 9 1:30 7:30 8-4-19 7:20 Sample Unknown Date: Sample MARIN (days): Due Date Requested: 61-4-8 Sample Date 61-4-8 PO# 11900114 Project # 48008584 New York Poison B Skin Irritant beliverable Requested: I, III, III, IV, Other (specify) Custody Seal No. 333 West Washington St. PO BOX 4873 315-956-6100(Tel) 315-463-7554(Fax) 3 080719 614080 O'Brien & Gere Inc of North America Flammable Possible Hazard Identification 614080 Empty Kit Relinquished by Former Accurate Die Cast Custody Seals Intact Client Information Sample Identification ruri. Veliz@obg.com E Sthen 7 A Yes A No riquished by. Setween Carbons Non-Hazard East Syracuse Mr. Yuri Veliz iquished by State, Zip: NY, 13221 Effluent

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America Job Number: 480-157359-1

Login Number: 157359 List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

Creator. Wallace, Cameron		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-157552-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America 333 West Washington St. PO BOX 4873 East Syracuse, New York 13221

Attn: Mr. David J Carnevale

T

Authorized for release by: 8/20/2019 11:34:44 AM Rebecca Jones, Project Management Assistant I rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II (716)504-9838

john.schove@testamericainc.com

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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.

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Definitions/Glossary

Client: O'Brien & Gere Inc of North America

Job ID: 480-157552-1

Project/Site: Former Accurate Die Cast

Toxicity Equivalent Quotient (Dioxin)

Glossary

TEQ

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)

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Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-157552-1

Job ID: 480-157552-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-157552-1

Receipt

The sample was received on 8/13/2019 8:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

General Chemistry

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

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Detection Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-157552-1

Client Sample ID: EFFLUENT 081219

Lab Sample ID: 480-157552-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Total Dissolved Solids	666	10.0	4.0 mg/L		SM2540 C	Total/NA

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Client Sample Results

RL

4.0

RL Unit

4.0 mg/L

D

Prepared

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Date Received: 08/13/19 08:00

Analyte

Total Suspended Solids

Job ID: 480-157552-1

Analyzed

08/14/19 10:39

Analyzed

08/14/19 13:22

Client Sample ID: EFFLUENT 081219

Lab Sample ID: 480-157552-1 Date Collected: 08/12/19 07:15

Matrix: Water

Dil Fac

Dil Fac

General Chemistry Analyte RL Result Qualifier MDL Unit D Prepared **Total Dissolved Solids** 666 10.0 4.0 mg/L

Result Qualifier

ND

QC Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-157552-1

Dil Fac

Dil Fac

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-487014/1

Lab Sample ID: LCS 480-487014/2

Matrix: Water

Analysis Batch: 487014

Analysis Batch: 487014

Total Suspended Solids

Matrix: Water

Analyte

MB MB

ND

Result Qualifier

RL 1.0

Spike

Added

255

RL Unit 1.0 mg/L

LCS LCS

230.4

Result Qualifier

Unit

mg/L

Prepared

%Rec

90

D

Analyzed 08/14/19 13:22

%Rec.

Limits

88 - 110

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Type: Total/NA

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-486955/1

Matrix: Water

Total Dissolved Solids

Total Suspended Solids

Analysis Batch: 486955

MB MB

Result Qualifier ND

RL 10.0 MDL Unit mg/L 4.0

D

Prepared Analyzed 08/14/19 10:39

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Type: Total/NA

Lab Sample ID: LCS 480-486955/2

Matrix: Water

Analyte

Analysis Batch: 486955

Total Dissolved Solids

Analyte

Spike Added

500

LCS LCS Result Qualifier 450.0

Unit mg/L %Rec 90

%Rec. Limits 85 - 115

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-157552-1

General Chemistry

Analysis Batch: 486955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157552-1	EFFLUENT 081219	Total/NA	Water	SM2540 C	
MB 480-486955/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-486955/2	Lab Control Sample	Total/NA	Water	SM2540 C	

Analysis Batch: 487014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157552-1	EFFLUENT 081219	Total/NA	Water	SM 2540D	
MB 480-487014/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-487014/2	Lab Control Sample	Total/NA	Water	SM 2540D	

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Lab Chronicle

Client: O'Brien & Gere Inc of North America Job ID: 480-157552-1

Project/Site: Former Accurate Die Cast

Date Received: 08/13/19 08:00

Client Sample ID: EFFLUENT 081219

Lab Sample ID: 480-157552-1 Date Collected: 08/12/19 07:15 **Matrix: Water**

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	487014	08/14/19 13:22	BBB	TAL BUF
Total/NA	Analysis	SM2540 C		1	486955	08/14/19 10:39	BBB	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-157552-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-157552-1

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"
SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Sample Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-157552-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-157552-1	EFFLUENT 081219	Water	08/12/19 07:15	08/13/19 08:00	

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Eurofins TestAmerica, Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298	5	Chain of Custody Record	Custo	ody R	ecord		** eurofins	Environment Testing TestAmerica
FIGURE / 10-091-2000 Fax. / 10-091-7991	Sampler.	Vonner	orto	Lab PM	dolor R			ă
Cient Contact Cient Contact Mr. Yuri Veliz	Phone: 315- Ma	13	200	E-Mail	E-Mail: Iohn schove@testamericainc.com	1		
Company O'Brian & Gere Inc of North America							490-157552 Chain of Custody	
Address: 333 Washington St. PO BOX 4873	Due Date Requested:						1	des:
City. East Syracuse Slate, Zip. NV 13221	TAT Requested (days):	*					A - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	
Phone 315-956-6100(Tel) 315-463-7554(Fax)	PO# 11900114						F - MeOH G - Amchior H - Ascorbic Ac	R - Na2S2O3 S - H2SO4 cid T - TSP Dodecahydrate
Email: Yuri.Veliz@obg.com	#OM.				sp!			
Project Name: Former Accurate Die Cast Ste:	Project#. 48008584 SSOW#.				1 10 seY) QS		of container L - EDA Other:	W - pH 4-5 Z - other (specify)
O manufaction of and one	Sample Date	Sample (0	Sample Type (C=comp,	Matrix (Wewster, Sesolid, O-wasteroll,	Field Filtered S Perform MS/MS SedoD - Total Su: SedoC_Calcd - To		otal Number of	Consist Instructions (Motor
Sample Identification	-		1775		Z			a meandanaide.
Effluent 08/3/9	8-13-19	4:15	U	Water	11		a	
5-12-16		T						
	/							
	/							
Possible Hazard Identification		1	1		Sample Disposa	If A fee may be	Samole Disposal (A fee may be assessed if samples are retained longer than 1 month)	an 1 month)
ant	☐ Poison B ☐ Unknown		Radiological		Return To Client	Client	Disposal By Lab Archive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instruction	Special Instructions/QC Requirements	. [
Empty Kit Relinquished by:		Date:			Time:		Method of Shipment.	
Relinquished by Aunthornished by CH4111	Date/Time	19:00		Company	Received by	19, Rei	119 80	Company Company Company
	Cated IIIIa		3	Company	veceived by.		Pater I III S	Company
Custody Seals Intact: Custody Seal No.:					Cooler Tempera	Cooler Temperature(s) "C and Other Remarks.	temarks 3,2 TX / ICE	
								Ver: 01/16/2019

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America Job Number: 480-157552-1

Login Number: 157552 List Source: Eurofins TestAmerica, Buffalo

List Number: 1 Creator: Stopa, Erik S

uestion	Answer	Comment
adioactivity either was not measured or, if measured, is at or below ackground	True	
ne cooler's custody seal, if present, is intact.	True	
ne cooler or samples do not appear to have been compromised or mpered with.	True	
amples were received on ice.	True	
poler Temperature is acceptable.	True	
poler Temperature is recorded.	True	
OC is present.	True	
OC is filled out in ink and legible.	True	
OC is filled out with all pertinent information.	True	
the Field Sampler's name present on COC?	True	
nere are no discrepancies between the sample IDs on the containers and e COC.	True	
amples are received within Holding Time (Excluding tests with immediate Ts)	True	
ample containers have legible labels.	True	
ontainers are not broken or leaking.	True	
ample collection date/times are provided.	True	
propriate sample containers are used.	True	
ample bottles are completely filled.	True	
ample Preservation Verified	True	
nere is sufficient vol. for all requested analyses, incl. any requested S/MSDs	True	
DA sample vials do not have headspace or bubble is <6mm (1/4") in ameter.	True	
necessary, staff have been informed of any short hold time or quick TAT eds	True	
ultiphasic samples are not present.	True	
amples do not require splitting or compositing.	True	
ampling Company provided.	True	OBG
amples received within 48 hours of sampling.	True	
amples requiring field filtration have been filtered in the field.	N/A	
nlorine Residual checked.	N/A	

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TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-157871-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America 333 West Washington St. PO BOX 4873 East Syracuse, New York 13221

Attn: Mr. David J Carnevale

Julian Du Mis

Authorized for release by: 8/28/2019 11:06:53 AM

Julianna DuHart, Project Management Assistant I julianna.duhart@testamericainc.com

Designee for

John Schove, Project Manager II (716)504-9838

john.schove@testamericainc.com

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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.

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Definitions/Glossary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-157871-1

Glossary

TEF

TEQ

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
Percent Recovery
Contains Free Liquid
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)
Dilution Factor
Detection Limit (DoD/DOE)
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
Decision Level Concentration (Radiochemistry)
Estimated Detection Limit (Dioxin)
Limit of Detection (DoD/DOE)
Limit of Quantitation (DoD/DOE)
Minimum Detectable Activity (Radiochemistry)
Minimum Detectable Concentration (Radiochemistry)
Method Detection Limit
Minimum Level (Dioxin)
Not Calculated
Not Detected at the reporting limit (or MDL or EDL if shown)
Practical Quantitation Limit
Quality Control
Relative Error Ratio (Radiochemistry)
Reporting Limit or Requested Limit (Radiochemistry)
Relative Percent Difference, a measure of the relative difference between two points

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Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-157871-1

Job ID: 480-157871-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-157871-1

Receipt

The samples were received on 8/20/2019 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA

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

General Chemistry

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

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Detection Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 081919

Job ID: 480-157871-1

Lab Sample ID: 480-157871-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	5.2		4.0	4.0	mg/L	1	_	SM 2540D	Total/NA
Total Dissolved Solids	656		10.0	4.0	mg/L	1		SM2540 C	Total/NA

Client Sample ID: EFFLUENT 081919	Lab Sample ID: 480-157871-2

No Detections.

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Client Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Lab Sample ID: 480-157871-1

Client Sample ID: EFFLUENT 081919 Date Collected: 08/19/19 07:15

Matrix: Water

Job ID: 480-157871-1

Date Received: 08/20/19 08:00

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	656		10.0	4.0	mg/L			08/21/19 08:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	5.2		4.0	4.0	mg/L			08/21/19 14:25	1

Client Sample ID: EFFLUENT 081919 Lab Sample ID: 480-157871-2

Date Collected: 08/19/19 07:15 **Matrix: Water**

Date Received: 08/20/19 08:00

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	1.0	0.82	ug/L			08/22/19 12:07	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			08/22/19 12:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			08/22/19 12:07	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			08/22/19 12:07	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			08/22/19 12:07	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			08/22/19 12:07	1
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			08/22/19 12:07	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			08/22/19 12:07	1
1,2-Dibromoethane	ND	1.0	0.73	ug/L			08/22/19 12:07	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			08/22/19 12:07	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			08/22/19 12:07	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			08/22/19 12:07	1
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			08/22/19 12:07	1
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			08/22/19 12:07	1
2-Butanone (MEK)	ND	10	1.3	ug/L			08/22/19 12:07	1
2-Hexanone	ND	5.0	1.2	ug/L			08/22/19 12:07	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1	ug/L			08/22/19 12:07	1
Acetone	ND	10	3.0	ug/L			08/22/19 12:07	1
Benzene	ND	1.0	0.41	ug/L			08/22/19 12:07	1
Bromodichloromethane	ND	1.0	0.39	ug/L			08/22/19 12:07	1
Bromoform	ND	1.0	0.26	ug/L			08/22/19 12:07	1
Bromomethane	ND	1.0	0.69	ug/L			08/22/19 12:07	1
Carbon disulfide	ND	1.0	0.19	ug/L			08/22/19 12:07	1
Carbon tetrachloride	ND	1.0	0.27	ug/L			08/22/19 12:07	1
Chlorobenzene	ND	1.0	0.75	ug/L			08/22/19 12:07	1
Chloroethane	ND	1.0	0.32	ug/L			08/22/19 12:07	1
Chloroform	ND	1.0	0.34	ug/L			08/22/19 12:07	1
Chloromethane	ND	1.0	0.35	ug/L			08/22/19 12:07	1
cis-1,2-Dichloroethene	ND	1.0	0.81	ug/L			08/22/19 12:07	1
cis-1,3-Dichloropropene	ND	1.0	0.36	ug/L			08/22/19 12:07	1
Cyclohexane	ND	1.0	0.18	ug/L			08/22/19 12:07	1
Dibromochloromethane	ND	1.0	0.32	-			08/22/19 12:07	1
Dichlorodifluoromethane	ND	1.0	0.68	ug/L			08/22/19 12:07	1
Ethylbenzene	ND	1.0	0.74	ug/L			08/22/19 12:07	1
Isopropylbenzene	ND	1.0	0.79	-			08/22/19 12:07	1
Methyl acetate	ND	2.5		ug/L			08/22/19 12:07	1
Methyl tert-butyl ether	ND	1.0	0.16				08/22/19 12:07	1
Methylcyclohexane	ND	1.0	0.16	•			08/22/19 12:07	1
Methylene Chloride	ND	1.0	0.44	•			08/22/19 12:07	1
Styrene	ND	1.0		ug/L			08/22/19 12:07	1

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Client Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Lab Sample ID: 480-157871-2

Matrix: Water

Job ID: 480-157871-1

Client Sample ID: EFFLUENT 081919

Date Collected: 08/19/19 07:15 Date Received: 08/20/19 08:00

rganic Compounds	by GC/MS (Contin	nued)					
Result Qual	lifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ND	1.0	0.36	ug/L			08/22/19 12:07	1
ND	1.0	0.51	ug/L			08/22/19 12:07	1
ND	1.0	0.90	ug/L			08/22/19 12:07	1
ND	1.0	0.37	ug/L			08/22/19 12:07	1
ND	1.0	0.46	ug/L			08/22/19 12:07	1
ND	1.0	0.88	ug/L			08/22/19 12:07	1
ND	1.0	0.90	ug/L			08/22/19 12:07	1
ND	2.0	0.66	ug/L			08/22/19 12:07	1
%Recovery Qual	lifier Limits				Prepared	Analyzed	Dil Fac
106	77 - 120			-		08/22/19 12:07	1
100	73 - 120					08/22/19 12:07	1
103	75 - 123					08/22/19 12:07	1
99	80 - 120					08/22/19 12:07	1
	Result Qual ND ND ND ND ND ND ND N	Result Qualifier RL ND 1.0 ND 2.0 **Recovery Qualifier Limits 100 73 - 120 103 75 - 123	ND 1.0 0.36 ND 1.0 0.51 ND 1.0 0.90 ND 1.0 0.37 ND 1.0 0.46 ND 1.0 0.98 ND 1.0 0.90 ND 2.0 0.66 **Recovery Qualifier Limits 100 73 - 120 103 75 - 123	Result Qualifier RL MDL unit ND 1.0 0.36 ug/L ND 1.0 0.51 ug/L ND 1.0 0.90 ug/L ND 1.0 0.37 ug/L ND 1.0 0.46 ug/L ND 1.0 0.90 ug/L ND 1.0 0.90 ug/L ND 2.0 0.66 ug/L **Recovery Qualifier Limits 100 73 - 120 103 75 - 123	Result Qualifier RL MDL unit D ND 1.0 0.36 ug/L ug/L ND 1.0 0.51 ug/L ug/L ND 1.0 0.90 ug/L ND 1.0 0.46 ug/L ND 1.0 0.88 ug/L ND 1.0 0.90 ug/L ND 2.0 0.66 ug/L **Recovery Qualifier Limits 100 73 - 120 103 75 - 123	Result ND Qualifier RL MDL Unit D Prepared ND 1.0 0.36 ug/L ug/L Variable V	Result ND Qualifier RL MDL unit D Prepared Analyzed ND 1.0 0.36 ug/L 08/22/19 12:07 ND 1.0 0.51 ug/L 08/22/19 12:07 ND 1.0 0.90 ug/L 08/22/19 12:07 ND 1.0 0.37 ug/L 08/22/19 12:07 ND 1.0 0.46 ug/L 08/22/19 12:07 ND 1.0 0.90 ug/L 08/22/19 12:07 ND 1.0 0.90 ug/L 08/22/19 12:07 ND 2.0 0.66 ug/L 08/22/19 12:07 **Recovery Qualifier **Limits **Prepared **Analyzed 100 73 - 120 08/22/19 12:07 103 75 - 123 08/22/19 12:07

Surrogate Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-157871-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

_			Pe	ercent Surre	ogate Reco
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-157871-2	EFFLUENT 081919	106	100	103	99
LCS 480-488279/5	Lab Control Sample	103	97	106	97
MB 480-488279/7	Method Blank	109	100	106	99
Surrogate Legend					
DCA = 1,2-Dichloroet	hane-d4 (Surr)				

DBFM = Dibromofluoromethane (Surr) TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

7

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10

1 4

14

QC Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-157871-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-488279/7

Matrix: Water

Vinyl chloride

Xylenes, Total

Analysis Batch: 488279

Client Sample ID: Method Blank Prep Type: Total/NA

		MB							
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0		ug/L			08/22/19 11:06	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			08/22/19 11:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			08/22/19 11:06	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/22/19 11:06	1
1,1-Dichloroethane	ND		1.0		ug/L			08/22/19 11:06	1
1,1-Dichloroethene	ND		1.0		ug/L			08/22/19 11:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/22/19 11:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/22/19 11:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/22/19 11:06	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/22/19 11:06	1
1,2-Dichloroethane	ND		1.0		ug/L			08/22/19 11:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/22/19 11:06	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/22/19 11:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/22/19 11:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/22/19 11:06	1
2-Hexanone	ND		5.0	1.2	ug/L			08/22/19 11:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/22/19 11:06	1
Acetone	ND		10	3.0	ug/L			08/22/19 11:06	1
Benzene	ND		1.0	0.41	ug/L			08/22/19 11:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/22/19 11:06	1
Bromoform	ND		1.0	0.26	ug/L			08/22/19 11:06	1
Bromomethane	ND		1.0	0.69	ug/L			08/22/19 11:06	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/22/19 11:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/22/19 11:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/22/19 11:06	1
Chloroethane	ND		1.0	0.32	ug/L			08/22/19 11:06	1
Chloroform	ND		1.0	0.34	ug/L			08/22/19 11:06	1
Chloromethane	ND		1.0	0.35	ug/L			08/22/19 11:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/22/19 11:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/22/19 11:06	1
Cyclohexane	ND		1.0	0.18	ug/L			08/22/19 11:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/22/19 11:06	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/22/19 11:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/22/19 11:06	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/22/19 11:06	1
Methyl acetate	ND		2.5	1.3	ug/L			08/22/19 11:06	1
Methyl tert-butyl ether	ND		1.0		ug/L			08/22/19 11:06	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/22/19 11:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/22/19 11:06	1
Styrene	ND		1.0		ug/L			08/22/19 11:06	1
Tetrachloroethene	ND		1.0		ug/L			08/22/19 11:06	1
Toluene	ND		1.0		ug/L			08/22/19 11:06	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/22/19 11:06	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/22/19 11:06	1
Trichloroethene	ND		1.0		ug/L			08/22/19 11:06	1
Trichlorofluoromethane	ND		1.0		ug/L			08/22/19 11:06	1
					J .				

1.0

2.0

0.90 ug/L

0.66 ug/L

ND

ND

Eurofins TestAmerica, Buffalo

08/22/19 11:06

08/22/19 11:06

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QC Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-157871-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-488279/7

Matrix: Water

Analysis Batch: 488279

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB MB				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109	77 - 120		08/22/19 11:06	1
4-Bromofluorobenzene (Surr)	100	73 - 120		08/22/19 11:06	1
Dibromofluoromethane (Surr)	106	75 - 123	1	08/22/19 11:06	1
Toluene-d8 (Surr)	99	80 - 120		08/22/19 11:06	1

Lab Sample ID: LCS 480-488279/5 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 488279

1,1,1-Trichloroethane	%Rec.			LCS	LCS	Spike	-
1,1,2,2-Tetrachloroethane 25.0 26.0 ug/L 104 1,1,2-Trichloro-1,2,2-trifluoroethane 25.0 29.0 ug/L 116 ne 25.0 24.9 ug/L 100 1,1,2-Trichloroethane 25.0 26.7 ug/L 100 1,1-Dichloroethane 25.0 26.7 ug/L 100 1,1-Cy-Trichloroethane 25.0 26.6 ug/L 100 1,2-Dibromo-3-Chloropropane 25.0 26.6 ug/L 100 1,2-Dibromo-distane 25.0 26.4 ug/L 100 1,2-Dichlorobenzene 25.0 26.0 ug/L 100 1,2-Dichlorobenzene 25.0 26.6 ug/L 100 1,2-Dichloropopane 25.0 26.6 ug/L 100 1,2-Dichlorobenzene 25.0 26.1 ug/L 100 1,2-Dichlorobenzene 25.0 26.1 ug/L 100 1,2-Dichlorobenzene 25.0 26.1 ug/L 100 1,4-Dichlorobenzene 25.0 26.1 ug/L 110 2-	Limits	%Rec	Unit D	Qualifier	Result	Added	Analyte
1,1,2-Trichloro-1,2,2-trifluoroetha 25.0 29.0 ug/L 116 ne	73 - 126	114	ug/L		28.6	25.0	1,1,1-Trichloroethane
The The	76 - 120	104	ug/L		26.0	25.0	1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane 25.0 24.9 ug/L 100 1,1-Dichloroethane 25.0 26.7 ug/L 107 1,1-Dichloroethene 25.0 27.8 ug/L 111 1,2,4-Trichlorobenzene 25.0 26.6 ug/L 106 1,2-Dibromo-3-Chloropropane 25.0 26.4 ug/L 106 1,2-Dichlorobenzene 25.0 26.0 ug/L 104 1,2-Dichlorobenzene 25.0 26.6 ug/L 106 1,2-Dichloropopane 25.0 26.6 ug/L 106 1,2-Dichloropopane 25.0 26.1 ug/L 106 1,2-Dichlorobenzene 25.0 26.1 ug/L 107 2-Butanone (MEK) 125 139 ug/L 116 2-Hexanone 125 139 ug/L 116 4-Methyl-2-pentanone (MIBK)	61 - 148	116	ug/L		29.0	25.0	
1,1-Dichloroethene 25.0 27.8 ug/L 111 1,2,4-Trichlorobenzene 25.0 26.6 ug/L 106 1,2-Dibromo-3-Chloropropane 25.0 25.4 ug/L 102 1,2-Dibromoethane 25.0 26.0 ug/L 105 1,2-Dichlorobenzene 25.0 26.6 ug/L 106 1,2-Dichloroptopane 25.0 26.6 ug/L 106 1,2-Dichlorobenzene 25.0 26.1 ug/L 107 1,4-Dichlorobenzene 25.0 25.4 ug/L 107 1,4-Dichlorobenzene 25.0 25.4 ug/L 107 2-Butanone (MEK) 125 139 ug/L 116 2-Hexanore 125 139 ug/L 117 4-Methyl-2-pentanone (MIBK) 125 137 ug/L 110 Benzene <td< td=""><td>76 - 122</td><td>100</td><td>ug/L</td><td></td><td>24.9</td><td>25.0</td><td></td></td<>	76 - 122	100	ug/L		24.9	25.0	
1,2,4-Trichlorobenzene 25.0 26.6 ug/L 100 1,2-Dibromo-3-Chloropropane 25.0 25.4 ug/L 102 1,2-Dibromoethane 25.0 26.4 ug/L 106 1,2-Dichlorobenzene 25.0 26.0 ug/L 100 1,2-Dichloroptopane 25.0 26.6 ug/L 100 1,2-Dichloroptopane 25.0 27.5 ug/L 110 1,3-Dichlorobenzene 25.0 26.1 ug/L 100 1,4-Dichlorobenzene 25.0 25.4 ug/L 100 2-Butanone (MEK) 125 144 ug/L 111 2-Hexanone 125 139 ug/L 111 4-Methyl-2-pentanone (MIBK) 125 137 ug/L 110 Acetone 125 133 ug/L 107 Benzene 25.0 26.7 ug/L 107 Bromodichloromethane 25.0 27.7 ug/L 107 Bromoform 25.0 25.0 26.7 ug/L 102 Carbon disulfide 25.0	77 - 120	107	ug/L		26.7	25.0	1,1-Dichloroethane
1,2-Dibromo-3-Chloropropane 25.0 25.4 ug/L 102 1,2-Dibromoethane 25.0 26.4 ug/L 105 1,2-Dichlorobenzene 25.0 26.0 ug/L 106 1,2-Dichloropthane 25.0 26.6 ug/L 106 1,2-Dichloroptopane 25.0 27.5 ug/L 110 1,3-Dichlorobenzene 25.0 26.1 ug/L 104 1,4-Dichlorobenzene 25.0 25.4 ug/L 107 2-Butanone (MEK) 125 139 ug/L 115 2-Hexanone 125 139 ug/L 116 4-Methyl-2-pentanone (MIBK) 125 137 ug/L 107 Benzene 25.0 26.7 ug/L 107 Benzene 25.0 26.7 ug/L 107 Bromoform 25.0 26.7 ug/L 107 Bromomethane 25.0 25.6 ug/L 102 Carbon disulfide 25.0 25.6 ug/L 116 Carbon tetrachloride 25.0 25.4	66 - 127	111	ug/L		27.8	25.0	1,1-Dichloroethene
1,2-Dibromoethane 25.0 26.4 ug/L 10.0 1,2-Dichlorobenzene 25.0 26.0 ug/L 10.4 1,2-Dichloroethane 25.0 26.6 ug/L 10.6 1,2-Dichloropropane 25.0 27.5 ug/L 110.0 1,3-Dichlorobenzene 25.0 26.1 ug/L 10.4 1,4-Dichlorobenzene 25.0 25.4 ug/L 10.4 2-Butanone (MEK) 125 144 ug/L 115.0 2-Hexanone 125 139 ug/L 111.0 4-Methyl-2-pentanone (MIBK) 125 137 ug/L 110.0 Acetone 125 133 ug/L 107.0 Benzene 25.0 26.7 ug/L 107.0 Bromodichloromethane 25.0 26.7 ug/L 110.0 Bromoform 25.0 25.6 ug/L 107.0 Bromomethane 25.0 25.6 ug/L 107.0 Carbon disulfide 25.0 25.0 29.0 ug/L 110.0 Chlorobenzene 25.0	79 - 122	106	ug/L		26.6	25.0	1,2,4-Trichlorobenzene
1,2-Dichlorobenzene 25.0 26.0 ug/L 104 1,2-Dichloroethane 25.0 26.6 ug/L 106 1,2-Dichloropropane 25.0 27.5 ug/L 110 1,3-Dichlorobenzene 25.0 26.1 ug/L 104 1,4-Dichlorobenzene 25.0 25.4 ug/L 104 2-Butanone (MEK) 125 144 ug/L 115 2-Hexanone 125 139 ug/L 111 4-Methyl-2-pentanone (MIBK) 125 137 ug/L 110 Acetone 125 133 ug/L 107 Benzene 25.0 26.7 ug/L 107 Bromodichloromethane 25.0 26.7 ug/L 110 Bromoform 25.0 26.7 ug/L 110 Bromodishlored 25.0 25.6 ug/L 107 Bromodishlored 25.0 25.6 ug/L 110 Carbon disulfide 25.0 25.6 ug/L 110 Chlorobenzene 25.0 25.4 ug/L	56 ₋ 134	102	ug/L		25.4	25.0	1,2-Dibromo-3-Chloropropane
1,2-Dichloroethane 25.0 26.6 ug/L 106 1,2-Dichloropropane 25.0 27.5 ug/L 110 1,3-Dichlorobenzene 25.0 26.1 ug/L 104 1,4-Dichlorobenzene 25.0 25.4 ug/L 107 2-Butanone (MEK) 125 144 ug/L 115 2-Hexanone 125 139 ug/L 117 4-Methyl-2-pentanone (MIBK) 125 137 ug/L 117 Acetone 125 133 ug/L 107 Benzene 25.0 26.7 ug/L 107 Bromodichloromethane 25.0 27.7 ug/L 117 Bromomethane 25.0 26.7 ug/L 107 Bromomethane 25.0 25.6 ug/L 107 Carbon tetrachloride 25.0 25.0 29.0 ug/L 116 Chlorobenzene 25.0 25.4 ug/L 102 Chloroethane 25.0 25.9 ug/L 104 Chloromethane 25.0 25.4	77 - 120	105	ug/L		26.4	25.0	1,2-Dibromoethane
1,2-Dichloropropane 25.0 27.5 ug/L 110 1,3-Dichlorobenzene 25.0 26.1 ug/L 104 1,4-Dichlorobenzene 25.0 25.4 ug/L 101 2-Butanone (MEK) 125 144 ug/L 115 2-Hexanone 125 139 ug/L 110 4-Methyl-2-pentanone (MIBK) 125 137 ug/L 110 Acetone 125 133 ug/L 107 Benzene 25.0 26.7 ug/L 107 Bromodichloromethane 25.0 27.7 ug/L 111 Bromomethane 25.0 26.7 ug/L 107 Bromomethane 25.0 25.6 ug/L 102 Carbon disulfide 25.0 25.6 ug/L 112 Chlorobenzene 25.0 25.4 ug/L 102 Chloroethane 25.0 25.9 ug/L 104 Chloromethane 25.0 25.4 ug/L 105 Cis-1,2-Dichloroethene 25.0 26.3 ug/L	80 - 124	104	ug/L		26.0	25.0	1,2-Dichlorobenzene
1,3-Dichlorobenzene 25.0 26.1 ug/L 104 1,4-Dichlorobenzene 25.0 25.4 ug/L 101 2-Butanone (MEK) 125 144 ug/L 115 2-Hexanone 125 139 ug/L 110 4-Methyl-2-pentanone (MIBK) 125 137 ug/L 110 Acetone 125 133 ug/L 107 Benzene 25.0 26.7 ug/L 107 Bromodichloromethane 25.0 27.7 ug/L 111 Bromoform 25.0 26.7 ug/L 107 Bromomethane 25.0 25.6 ug/L 107 Carbon disulfide 25.0 25.6 ug/L 116 Carbon tetrachloride 25.0 28.0 ug/L 112 Chlorobenzene 25.0 25.4 ug/L 102 Chloroform 25.0 25.4 ug/L 104 Chloromethane 25.0 25.4 ug/L 104 Chloromethane 25.0 26.3 ug/L 115 <td>75 ₋ 120</td> <td>106</td> <td>ug/L</td> <td></td> <td>26.6</td> <td>25.0</td> <td>1,2-Dichloroethane</td>	75 ₋ 120	106	ug/L		26.6	25.0	1,2-Dichloroethane
1,4-Dichlorobenzene 25.0 25.4 ug/L 101 2-Butanone (MEK) 125 144 ug/L 115 2-Hexanone 125 139 ug/L 111 4-Methyl-2-pentanone (MIBK) 125 137 ug/L 110 Acetone 125 133 ug/L 107 Benzene 25.0 26.7 ug/L 107 Bromodichloromethane 25.0 27.7 ug/L 117 Bromoform 25.0 26.7 ug/L 107 Bromomethane 25.0 26.7 ug/L 107 Carbon disulfide 25.0 25.6 ug/L 102 Carbon tetrachloride 25.0 28.0 ug/L 112 Chlorobenzene 25.0 25.4 ug/L 102 Chloroform 25.0 25.4 ug/L 104 Chloroform 25.0 25.4 ug/L 104 Chloromethane 25.0 28.7 ug/L 105 Cis-1,2-Dichloroethene 25.0 26.3 ug/L 105 <td>76 - 120</td> <td>110</td> <td>ug/L</td> <td></td> <td>27.5</td> <td>25.0</td> <td>1,2-Dichloropropane</td>	76 - 120	110	ug/L		27.5	25.0	1,2-Dichloropropane
2-Butanone (MEK) 125 144 ug/L 115 2-Hexanone 125 139 ug/L 111 4-Methyl-2-pentanone (MIBK) 125 137 ug/L 110 Acetone 125 133 ug/L 107 Benzene 25.0 26.7 ug/L 107 Bromodichloromethane 25.0 27.7 ug/L 117 Bromoform 25.0 26.7 ug/L 107 Bromomethane 25.0 25.6 ug/L 102 Carbon disulfide 25.0 25.0 29.0 ug/L 116 Carbon tetrachloride 25.0 28.0 ug/L 112 Chlorobenzene 25.0 25.4 ug/L 102 Chloroform 25.0 25.9 ug/L 104 Chloromethane 25.0 25.4 ug/L 105 Cis-1,2-Dichloroethene 25.0 26.3 ug/L 105	77 - 120	104	ug/L		26.1	25.0	1,3-Dichlorobenzene
2-Hexanone 125 139 ug/L 111 4-Methyl-2-pentanone (MIBK) 125 137 ug/L 110 Acetone 125 133 ug/L 107 Benzene 25.0 26.7 ug/L 107 Bromodichloromethane 25.0 27.7 ug/L 111 Bromoform 25.0 26.7 ug/L 107 Bromomethane 25.0 25.6 ug/L 102 Carbon disulfide 25.0 29.0 ug/L 116 Carbon tetrachloride 25.0 28.0 ug/L 112 Chlorobenzene 25.0 25.4 ug/L 102 Chloroethane 25.0 25.9 ug/L 104 Chloromethane 25.0 25.4 ug/L 104 Cis-1,2-Dichloroethene 25.0 26.3 ug/L 105	80 - 120	101	ug/L		25.4	25.0	1,4-Dichlorobenzene
4-Methyl-2-pentanone (MIBK) 125 137 ug/L 110 Acetone 125 133 ug/L 107 Benzene 25.0 26.7 ug/L 107 Bromodichloromethane 25.0 27.7 ug/L 111 Bromoform 25.0 26.7 ug/L 107 Bromomethane 25.0 25.6 ug/L 102 Carbon disulfide 25.0 29.0 ug/L 116 Carbon tetrachloride 25.0 28.0 ug/L 112 Chlorobenzene 25.0 25.4 ug/L 102 Chloroethane 25.0 25.9 ug/L 104 Chloromethane 25.0 25.4 ug/L 104 Chloroethane 25.0 25.4 ug/L 104 Chloroethane 25.0 25.4 ug/L 104 Chloroethane 25.0 26.3 ug/L 105 Cis-1,2-Dichloroethene 25.0 26.3 ug/L 105	57 - 140	115	ug/L		144	125	2-Butanone (MEK)
Acetone 125 133 ug/L 107 Benzene 25.0 26.7 ug/L 107 Bromodichloromethane 25.0 27.7 ug/L 111 Bromoform 25.0 26.7 ug/L 107 Bromomethane 25.0 25.6 ug/L 102 Carbon disulfide 25.0 29.0 ug/L 116 Carbon tetrachloride 25.0 28.0 ug/L 112 Chlorobenzene 25.0 25.4 ug/L 102 Chloroethane 25.0 25.9 ug/L 104 Chloromethane 25.0 25.4 ug/L 107 Chloroethane 25.0 25.4 ug/L 107 Chloroethane 25.0 25.4 ug/L 107 Chloroethane 25.0 26.3 ug/L 107 Cis-1,2-Dichloroethene 25.0 26.3 ug/L 108	65 - 127	111	ug/L		139	125	2-Hexanone
Benzene 25.0 26.7 ug/L 107 Bromodichloromethane 25.0 27.7 ug/L 111 Bromoform 25.0 26.7 ug/L 107 Bromomethane 25.0 25.6 ug/L 102 Carbon disulfide 25.0 29.0 ug/L 116 Carbon tetrachloride 25.0 28.0 ug/L 112 Chlorobenzene 25.0 25.4 ug/L 102 Chloroethane 25.0 25.9 ug/L 104 Chloromethane 25.0 25.4 ug/L 107 Chloroethane 25.0 25.4 ug/L 107 Chloroethane 25.0 25.4 ug/L 107 Chloroethane 25.0 26.3 ug/L 107 Cis-1,2-Dichloroethene 25.0 26.3 ug/L 108	71 - 125	110	ug/L		137	125	4-Methyl-2-pentanone (MIBK)
Bromodichloromethane 25.0 27.7 ug/L 11.1 Bromoform 25.0 26.7 ug/L 10.7 Bromomethane 25.0 25.6 ug/L 10.2 Carbon disulfide 25.0 29.0 ug/L 11.6 Carbon tetrachloride 25.0 28.0 ug/L 11.2 Chlorobenzene 25.0 25.4 ug/L 10.2 Chloroethane 25.0 25.9 ug/L 10.4 Chloromethane 25.0 25.4 ug/L 10.4 Cis-1,2-Dichloroethene 25.0 28.7 ug/L 11.5 cis-1,2-Dichloroethene 25.0 26.3 ug/L 10.5	56 - 142	107	ug/L		133	125	Acetone
Bromoform 25.0 26.7 ug/L 107 Bromomethane 25.0 25.6 ug/L 102 Carbon disulfide 25.0 29.0 ug/L 116 Carbon tetrachloride 25.0 28.0 ug/L 112 Chlorobenzene 25.0 25.4 ug/L 102 Chloroethane 25.0 25.9 ug/L 104 Chloroform 25.0 25.4 ug/L 104 Chloromethane 25.0 28.7 ug/L 115 cis-1,2-Dichloroethene 25.0 26.3 ug/L 105	71 - 124	107	ug/L		26.7	25.0	Benzene
Bromomethane 25.0 25.6 ug/L 102 Carbon disulfide 25.0 29.0 ug/L 116 Carbon tetrachloride 25.0 28.0 ug/L 112 Chlorobenzene 25.0 25.4 ug/L 102 Chloroethane 25.0 25.9 ug/L 104 Chloroform 25.0 25.4 ug/L 104 Chloromethane 25.0 28.7 ug/L 115 cis-1,2-Dichloroethene 25.0 26.3 ug/L 105	80 - 122	111	ug/L		27.7	25.0	Bromodichloromethane
Carbon disulfide 25.0 29.0 ug/L 116 Carbon tetrachloride 25.0 28.0 ug/L 112 Chlorobenzene 25.0 25.4 ug/L 102 Chloroethane 25.0 25.9 ug/L 104 Chloroform 25.0 25.4 ug/L 101 Chloromethane 25.0 28.7 ug/L 115 cis-1,2-Dichloroethene 25.0 26.3 ug/L 105	61 - 132	107	ug/L		26.7	25.0	Bromoform
Carbon tetrachloride 25.0 28.0 ug/L 112 Chlorobenzene 25.0 25.4 ug/L 102 Chloroethane 25.0 25.9 ug/L 104 Chloroform 25.0 25.4 ug/L 101 Chloromethane 25.0 28.7 ug/L 115 cis-1,2-Dichloroethene 25.0 26.3 ug/L 105	55 - 144	102	ug/L		25.6	25.0	Bromomethane
Chlorobenzene 25.0 25.4 ug/L 102 Chloroethane 25.0 25.9 ug/L 104 Chloroform 25.0 25.4 ug/L 104 Chloromethane 25.0 28.7 ug/L 115 cis-1,2-Dichloroethene 25.0 26.3 ug/L 105	59 - 134	116	ug/L		29.0	25.0	Carbon disulfide
Chloroethane 25.0 25.9 ug/L 104 Chloroform 25.0 25.4 ug/L 104 Chloromethane 25.0 28.7 ug/L 115 cis-1,2-Dichloroethene 25.0 26.3 ug/L 105	72 - 134	112	ug/L		28.0	25.0	Carbon tetrachloride
Chloroform 25.0 25.4 ug/L 10.1 Chloromethane 25.0 28.7 ug/L 11.5 cis-1,2-Dichloroethene 25.0 26.3 ug/L 10.5	80 - 120	102	ug/L		25.4	25.0	Chlorobenzene
Chloromethane 25.0 28.7 ug/L 115 cis-1,2-Dichloroethene 25.0 26.3 ug/L 105	69 - 136	104	ug/L		25.9	25.0	Chloroethane
cis-1,2-Dichloroethene 25.0 26.3 ug/L 105	73 - 127	101	ug/L		25.4	25.0	Chloroform
	68 - 124	115	ug/L		28.7	25.0	Chloromethane
cis-1.3-Dichloropropene 25.0 27.9 ug/l 112	74 - 124	105	ug/L		26.3	25.0	cis-1,2-Dichloroethene
,- =	74 - 124	112	ug/L		27.9	25.0	cis-1,3-Dichloropropene
Cyclohexane 25.0 28.8 ug/L 115	59 - 135	115	ug/L		28.8	25.0	Cyclohexane
Dibromochloromethane 25.0 26.2 ug/L 105	75 - 125	105	ug/L		26.2	25.0	Dibromochloromethane
Dichlorodifluoromethane 25.0 31.0 ug/L 124	59 ₋ 135	124	ug/L		31.0	25.0	Dichlorodifluoromethane
Ethylbenzene 25.0 25.9 ug/L 103	77 - 123	103	ug/L		25.9	25.0	Ethylbenzene
Isopropylbenzene 25.0 27.0 ug/L 108	77 - 122	108	ug/L		27.0	25.0	Isopropylbenzene
Methyl acetate 50.0 56.9 ug/L 114	74 - 133	114	ug/L		56.9	50.0	Methyl acetate
Methyl tert-butyl ether 25.0 26.9 ug/L 107	77 - 120	107	ug/L		26.9	25.0	Methyl tert-butyl ether
Methylcyclohexane 25.0 28.8 ug/L 115	68 - 134	115	ug/L		28.8	25.0	Methylcyclohexane

Eurofins TestAmerica, Buffalo

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8/28/2019

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-157871-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-488279/5

Matrix: Water

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis	Batch:	488279
Δnalvte		

Analyte Methylene Chloride	Added	Result	Ouglifier				
Methylene Chloride	·		Qualifier	Unit	D %Rec	Limits	
	25.0	25.3		ug/L		75 - 124	
Styrene	25.0	26.9		ug/L	108	80 - 120	
Tetrachloroethene	25.0	26.4		ug/L	106	74 - 122	
Toluene	25.0	26.5		ug/L	106	80 - 122	
trans-1,2-Dichloroethene	25.0	27.3		ug/L	109	73 - 127	
trans-1,3-Dichloropropene	25.0	26.7		ug/L	107	80 - 120	
Trichloroethene	25.0	26.7		ug/L	107	74 - 123	
Trichlorofluoromethane	25.0	26.1		ug/L	105	62 - 150	
Vinyl chloride	25.0	27.4		ug/L	109	65 - 133	

LCS LCS

%Recovery	Qualifier	Limits
103		77 - 120
97		73 - 120
106		75 - 123
97		80 - 120
	103 97 106	97 106

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-488165/1

Matrix: Water

Analysis Batch: 488165

MB MB

Analyte Result Qualifier RL **RL** Unit Analyzed Dil Fac Prepared **Total Suspended Solids** ND 1.0 1.0 mg/L 08/21/19 14:25

Lab Sample ID: LCS 480-488165/2

Matrix: Water

Analysis Batch: 488165

7 maryolo Batom 400100	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Suspended Solids	256	229.2		mg/L	_	89	88 - 110	

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-488048/1

Matrix: Water

Analysis Batch: 488048

MB MB

Analyte Result Qualifier RL **MDL** Unit Dil Fac **Prepared** Analyzed **Total Dissolved Solids** $\overline{\mathsf{ND}}$ 10.0 4.0 mg/L 08/21/19 08:30

Lab Sample ID: LCS 480-488048/2

Matrix: Water

Analysis Batch: 488048

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Dissolved Solids	500	528.0		mg/L		106	85 - 115	 '

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

GC/MS VOA

Analysis Batch: 488279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157871-2	EFFLUENT 081919	Total/NA	Water	8260C	
MB 480-488279/7	Method Blank	Total/NA	Water	8260C	
LCS 480-488279/5	Lab Control Sample	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 488048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157871-1	EFFLUENT 081919	Total/NA	Water	SM2540 C	
MB 480-488048/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-488048/2	Lab Control Sample	Total/NA	Water	SM2540 C	

Analysis Batch: 488165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157871-1	EFFLUENT 081919	Total/NA	Water	SM 2540D	
MB 480-488165/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-488165/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Job ID: 480-157871-1

Lab Chronicle

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-157871-1

Client Sample ID: EFFLUENT 081919 Lab Sample ID: 480-157871-1

Date Collected: 08/19/19 07:15 Date Received: 08/20/19 08:00 Matrix: Water

Batch Dilution **Batch Prepared** Method or Analyzed **Prep Type** Type Run **Factor** Number Analyst Lab Total/NA 08/21/19 14:25 ZFM TAL BUF Analysis SM 2540D 488165 Total/NA Analysis SM2540 C 1 488048 08/21/19 08:30 ZFM TAL BUF

Client Sample ID: EFFLUENT 081919 Lab Sample ID: 480-157871-2

Date Collected: 08/19/19 07:15 Date Received: 08/20/19 08:00 Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	488279	08/22/19 12:07	KMN	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Eurofins TestAmerica, Buffalo

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-157871-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date	
New York	NELAP	10026	03-31-20	

J-13/6/1-1

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-157871-1

Method	Method Description	Protocol	Laboratory	
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF	
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF	
SM2540 C	Total Dissolved Solids	SM18	TAL BUF	
5030C	Purge and Trap	SW846	TAL BUF	

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Sample Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-157871-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-157871-1	EFFLUENT 081919	Water	08/19/19 07:15	08/20/19 08:00	
480-157871-2	EFFLUENT 081919	Water	08/19/19 07:15	08/20/19 08:00	

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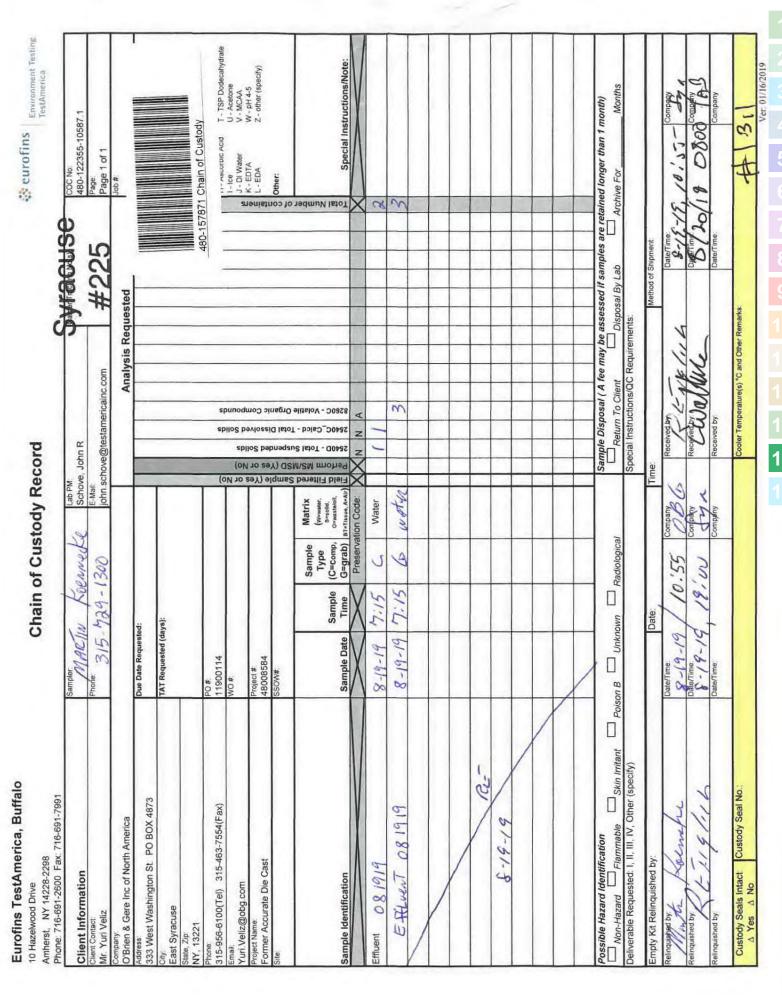
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Client: O'Brien & Gere Inc of North America

Job Number: 480-157871-1

Login Number: 157871

List Source: Eurofins TestAmerica, Buffalo List Number: 1 Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OBG
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-158173-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America 333 West Washington St. PO BOX 4873 East Syracuse, New York 13221

Attn: Mr. David J Carnevale

The

Authorized for release by: 9/4/2019 11:40:27 AM Rebecca Jones, Project Management Assistant I rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II (716)504-9838 john.schove@testamericainc.com

LINKS

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Total Access

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

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Definitions/Glossary

Client: O'Brien & Gere Inc of North America

Job ID: 480-158173-1

Project/Site: Former Accurate Die Cast

Qualifiers

RER

RPD

TEF

TEQ

RL

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

General Chemistry

Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

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Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-158173-1

Job ID: 480-158173-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-158173-1

Receipt

The sample was received on 8/27/2019 10:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

General Chemistry

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

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Detection Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-158173-1

Client Sample ID: EFFLUENT 082619

Lab Sample ID: 480-158173-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	il Fac	D	Method	Prep Type	
Total Dissolved Solids	633	В	10.0	4.0	mg/L		1	_	SM2540 C	Total/NA	

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Client Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-158173-1

Client Sample ID: EFFLUENT 082619

Date Collected: 08/26/19 07:10

Lab Sample ID: 480-158173-1 Matrix: Water

Date Received: 08/27/19 10:30

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	633	В	10.0	4.0	mg/L			08/28/19 09:29	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			08/30/19 11:52	1

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Job ID: 480-158173-1

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: EFFLUENT 082619

Client: O'Brien & Gere Inc of North America

Project/Site: Former Accurate Die Cast

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-489659/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 489659

мв мв Analyte Result Qualifier RL RL Unit Prepared Analyzed Dil Fac 1.0 1.0 mg/L 08/30/19 11:52 Total Suspended Solids ND

Lab Sample ID: LCS 480-489659/2 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 489659

Spike LCS LCS %Rec. Added Result Qualifier Unit D %Rec Limits **Total Suspended Solids** 250 244.4 98 88 - 110 mg/L

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-489206/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 489206

MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total Dissolved Solids 10.0 mg/L 08/28/19 09:29 4.00 J 4.0

Lab Sample ID: LCS 480-489206/2 **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 489206

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec **Total Dissolved Solids** 500 476.0 mg/L 95 85 - 115

Lab Sample ID: 480-158173-1 DU

Matrix: Water

Analysis Batch: 489206

Sample Sample DU DU RPD Analyte Result Qualifier Result Qualifier Unit RPD Limit Total Dissolved Solids 633 B 648.0 mg/L

Eurofins TestAmerica, Buffalo

9/4/2019

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-158173-1

General Chemistry

Analysis Batch: 489206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
480-158173-1	EFFLUENT 082619	Total/NA	Water	SM2540 C
MB 480-489206/1	Method Blank	Total/NA	Water	SM2540 C
LCS 480-489206/2	Lab Control Sample	Total/NA	Water	SM2540 C
480-158173-1 DU	EFFLUENT 082619	Total/NA	Water	SM2540 C

Analysis Batch: 489659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158173-1	EFFLUENT 082619	Total/NA	Water	SM 2540D	
MB 480-489659/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-489659/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Lab Chronicle

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-158173-1

Client Sample ID: EFFLUENT 082619

Lab Sample ID: 480-158173-1 Date Collected: 08/26/19 07:10

Matrix: Water

Date Received: 08/27/19 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	489659	08/30/19 11:52	ZFM	TAL BUF
Total/NA	Analysis	SM2540 C		1	489206	08/28/19 09:29	ZFM	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America

Job ID: 480-158173-1

Project/Site: Former Accurate Die Cast

The accreditations/certifications listed below are applicable to this report.

Laboratory: Eurofins TestAmerica, Buffalo

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-158173-1

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Sample Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-158173-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
Lab Sample 1D	Olient Sample ID	Matrix	Collected	Received	ASSELID
480-158173-1	EFFLUENT 082619	Water	08/26/19 07:10	08/27/19 10:30	

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Environment Tasking N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2SO4
S - H2SO4
T - TSP Dodecahydrate Ver. 01/16/2019 Special Instructions/Note: TAR T Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Special Instructions/QC Requirements: (200 No. 10586.1 480-122378-10586.1 reservation Codes A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
F - NaHSO4
F - NahSO4
G - Amchlor
H - Ascorbic Acid 🔆 eurofins Page 1 of 1 I - Ice J - DI Water K - EDTA # 375 Total Number of containers Datedime. 480-158173 Chain of Custody #225 Method of Shipment 8 Analysis Requested Cooler Temperature(s) °C and Other Remarks: Lab PM: Schove, John R E-Mail: John schove@testamericainc.com Seaoc Calcd - Total Dissolved Solids Chain of Custody Record Time erform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) Sompon BT=Tissue, A=All Matrix Preservation Code Water Radiological Koenwecky Type (C=comp, G=grab) 00. Sample none: 315-729-1300 1:10 Sample Unknown Date 8-26-19 TAT Requested (days): Sampler. Due Date Requested: 61-96-8 Sample Date PO#: 11900114 Project #: 48008584 SSOW#: WO# Poison B Skin Irritant eliverable Requested: I, II, III, IV, Other (specify) Eurofins TestAmerica, Buffalo Custody Seal No. Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991 333 West Washington St. PO BOX 4873 315-956-6100(Tel) 315-463-7554(Fax) O'Brien & Gere Inc of North America Possible Hazard Identification 2-8 082619 Empty Kit Relinquished by: Custody Seals Intact Former Accurate Die Cast Client Information Sample Identification Yuri.Veliz@obg.com 10 Hazelwood Drive nquished by: East Syracuse yd bensinpr nquished by Mr. Yuri Veliz State, Zip: NY, 13221 Effluent

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America Job Number: 480-158173-1

Login Number: 158173 List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Yeager, Brian A

oroator rougor, Brian A		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OBG
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-158667-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America 333 West Washington St. PO BOX 4873 East Syracuse, New York 13221

Attn: Mr. David J Carnevale

Julian De Mis

Authorized for release by: 9/17/2019 12:56:35 PM

Julianna DuHart, Project Management Assistant I julianna.duhart@testamericainc.com

Designee for

John Schove, Project Manager II (716)504-9838

john.schove@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

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Definitions/Glossary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-158667-1

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

LCS or LCSD is outside acceptance limits.

Metals

Qualifier **Qualifier Description**

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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**

Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE) LOD 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)

Reporting Limit or Requested Limit (Radiochemistry) RL

Relative Percent Difference, a measure of the relative difference between two points **RPD**

Toxicity Equivalent Factor (Dioxin) **TEF** Toxicity Equivalent Quotient (Dioxin) **TEQ**

Eurofins TestAmerica, Buffalo

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-158667-1

Job ID: 480-158667-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-158667-1

Receipt

The samples were received on 9/5/2019 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5° C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: INFLUENT GRAB 090419 (480-158667-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The Laboratory Control Sample (LCS) was outside laboratory/project quality control limits for the following analyte: 1,1,2,2-Tetrachloroethane. All other spike recoveries and quality control indicators, including sample specific surrogate recoveries, were acceptable. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: BETWEEN CARBONS 090419 (480-158667-2), EFFLUENT GRAB 090419 (480-158667-4) and INFLUENT GRAB 090419 (480-158667-5).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: INFLUENT GRAB 090419 (480-158667-5), (480-158667-B-5 MS) and (480-158667-B-5 MSD). Elevated reporting limits (RLs) are provided.

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

Metals

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

General Chemistry

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

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Detection Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-158667-1

Client Sample ID: EFFI	LUENT 09041	9				Lab San	ple ID: 48	0-158667-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Zinc	0.0041	J	0.010	0.0015	mg/L		6010C	Total/NA
Total Dissolved Solids	710		10.0	4.0	mg/L	1	SM2540 C	Total/NA
Client Sample ID: BET	WEEN CARB	ONS 0904	119			Lab San	ple ID: 48	0-158667-2
No Detections.								
Client Sample ID: INFL	UENT 090419)				Lab San	ple ID: 48	0-158667-3
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Zinc	0.0086	J	0.010	0.0015	mg/L		6010C	Total/NA
Client Sample ID: EFFI	LUENT GRAB	090419				Lab San	ple ID: 48	0-158667-4
No Detections.								
Client Sample ID: INFL	UENT GRAB	090419				Lab San	ple ID: 48	0-158667-5
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type

This Detection Summary does not include radiochemical test results.

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 090419

Date Collected: 09/04/19 07:20 Date Received: 09/05/19 08:00

Lab Sample ID: 480-158667-1

Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.0041 J	0.010	0.0015 mg/L		09/09/19 09:35	09/10/19 19:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND ND	0.00020	0.00012 mg/L		09/13/19 12:00	09/13/19 16:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	710		10.0	4.0	mg/L			09/09/19 10:03	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			09/10/19 08:32	1

Client Sample ID: BETWEEN CARBONS 090419

Date Collected: 09/04/19 07:20

Date Received: 09/05/19 08:00

Lab Sample ID: 480-158667-2

Lab Sample ID: 480-158667-3

Matrix: Water

Method: 8260C - Volatile O	rganic Compounds by GC/	/MS					
Analyte	Result Qualifier	RL	MDL Un	it I	D Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND *	1.0	0.21 ug/	'L	_	09/12/19 22:41	1
cis-1,2-Dichloroethene	ND	1.0	0.81 ug/	'L		09/12/19 22:41	1
Methylene Chloride	ND	1.0	0.44 ug/	'L		09/12/19 22:41	1
Tetrachloroethene	ND	1.0	0.36 ug/	Ĺ		09/12/19 22:41	1
Toluene	ND	1.0	0.51 ug/	'L		09/12/19 22:41	1
trans-1,2-Dichloroethene	ND	1.0	0.90 ug/	'L		09/12/19 22:41	1
Trichloroethene	ND	1.0	0.46 ug/	Ĺ		09/12/19 22:41	1

Surrogate	%Recovery Qu	ıalifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94	77 - 120		09/12/19 22:41	1
4-Bromofluorobenzene (Surr)	100	73 - 120		09/12/19 22:41	1
Toluene-d8 (Surr)	102	80 - 120		09/12/19 22:41	1
Dibromofluoromethane (Surr)	104	75 - 123		09/12/19 22:41	1

Client Sample ID: INFLUENT 090419

Date Collected: 09/04/19 07:20	Matrix: Water
Date Received: 09/05/19 08:00	

Method: 6010C - Metals (ICP) Analyte

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.0086 J	0.010	0.0015 mg/L		09/09/19 09:35	09/10/19 19:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND -	0.00020	0.00012 mg/L		09/13/19 12:00	09/13/19 16:43	1

Client Sample ID: EFFLUENT GRAB 090419

Lab Sample ID: 480-158667-4 Date Collected: 09/04/19 07:20 **Matrix: Water**

Date Received: 09/05/19 08:00

Method: 8260C - Volatile Orgai	/MS						
Analyte	Result Qualifier	RL	MDL Unit	t D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND *	1.0	0.21 ug/L			09/12/19 23:05	1
cis-1,2-Dichloroethene	ND	1.0	0.81 ug/L	=		09/12/19 23:05	1

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9/17/2019

Client Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Lab Sample ID: 480-158667-4

Client Sample ID: EFFLUENT GRAB 090419 Date Collected: 09/04/19 07:20

Date Received: 09/05/19 08:00

Matrix: Water

Job ID: 480-158667-1

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS (Conti	nued)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.44	ug/L			09/12/19 23:05	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/12/19 23:05	1
Toluene	ND		1.0	0.51	ug/L			09/12/19 23:05	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/12/19 23:05	1
Trichloroethene	ND		1.0	0.46	ug/L			09/12/19 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120			•		09/12/19 23:05	1
4-Bromofluorobenzene (Surr)	108		73 - 120					09/12/19 23:05	1
Toluene-d8 (Surr)	97		80 - 120					09/12/19 23:05	1
Dibromofluoromethane (Surr)	106		75 - 123					09/12/19 23:05	1

Lab Sample ID: 480-158667-5 **Client Sample ID: INFLUENT GRAB 090419**

Date Collected: 09/04/19 07:20

Matrix: Water Date Received: 09/05/19 08:00

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND —	8.0	1.7	ug/L			09/15/19 02:08	8
cis-1,2-Dichloroethene	ND	8.0	6.5	ug/L			09/15/19 02:08	8
Methylene Chloride	ND	8.0	3.5	ug/L			09/15/19 02:08	8
Tetrachloroethene	ND	8.0	2.9	ug/L			09/15/19 02:08	8
Toluene	ND	8.0	4.1	ug/L			09/15/19 02:08	8
trans-1,2-Dichloroethene	ND	8.0	7.2	ug/L			09/15/19 02:08	8
Trichloroethene	380	8.0	3.7	ug/L			09/15/19 02:08	8

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99	77 - 120		09/15/19 02:08	8
4-Bromofluorobenzene (Surr)	102	73 - 120		09/15/19 02:08	8
Toluene-d8 (Surr)	101	80 - 120		09/15/19 02:08	8
Dibromofluoromethane (Surr)	99	75 - 123		09/15/19 02:08	8

9/17/2019

Surrogate Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-158667-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

			Pe	rcent Surre	ogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-158667-2	BETWEEN CARBONS 090419	94	100	102	104
480-158667-4	EFFLUENT GRAB 090419	99	108	97	106
480-158667-5	INFLUENT GRAB 090419	99	102	101	99
480-158667-5 MS	INFLUENT GRAB 090419	105	108	104	103
480-158667-5 MSD	INFLUENT GRAB 090419	100	105	102	100
LCS 480-491772/5	Lab Control Sample	97	90	82	103
LCS 480-492135/5	Lab Control Sample	103	106	103	105
MB 480-491772/7	Method Blank	101	98	107	108
MB 480-492135/7	Method Blank	102	108	102	101

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Job ID: 480-158667-1

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-491772/7

Matrix: Water

Analysis Batch: 491772

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 1,1,2,2-Tetrachloroethane 1.0 0.21 ug/L 09/12/19 22:16 \overline{ND} cis-1,2-Dichloroethene ND 1.0 0.81 ug/L 09/12/19 22:16 Methylene Chloride ND 1.0 0.44 ug/L 09/12/19 22:16 Tetrachloroethene ND 1.0 0.36 ug/L 09/12/19 22:16 Toluene ND 1.0 0.51 ug/L 09/12/19 22:16 trans-1,2-Dichloroethene ND 1.0 0.90 ug/L 09/12/19 22:16 ND Trichloroethene 1.0 0.46 ug/L 09/12/19 22:16

MB MB %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 1,2-Dichloroethane-d4 (Surr) 101 77 - 120 09/12/19 22:16 73 - 120 4-Bromofluorobenzene (Surr) 98 09/12/19 22:16 107 Toluene-d8 (Surr) 80 - 120 09/12/19 22:16 Dibromofluoromethane (Surr) 108 75 - 123 09/12/19 22:16

Lab Sample ID: LCS 480-491772/5

Matrix: Water

Analysis Batch: 491772

Client Sample ID: Lab Control Sample Prep Type: Total/NA

LCS LCS Spike %Rec. Added Result Qualifier Unit %Rec Limits **Analyte** 1,1,2,2-Tetrachloroethane 25.0 18.6 75 76 - 120 ug/L cis-1,2-Dichloroethene 25.0 24.6 ug/L 98 74 - 124Methylene Chloride 25.0 21.5 ug/L 86 75 - 124Tetrachloroethene 25.0 25.0 ug/L 100 74 - 122 Toluene 25.0 21.7 ug/L 87 80 - 122 trans-1,2-Dichloroethene 25.0 20.6 ug/L 82 73 - 127 Trichloroethene 25.0 24.8 ug/L 99 74 - 123

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 97 77 - 120 4-Bromofluorobenzene (Surr) 90 73 - 120 Toluene-d8 (Surr) 82 80 - 120 Dibromofluoromethane (Surr) 103 75 - 123

Lab Sample ID: MB 480-492135/7

Matrix: Water

Analysis Batch: 492135

Client Sample ID: Method Blank Prep Type: Total/NA

	MR M	IB							
Analyte	Result Q	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/15/19 01:19	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/15/19 01:19	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/15/19 01:19	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/15/19 01:19	1
Toluene	ND		1.0	0.51	ug/L			09/15/19 01:19	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/15/19 01:19	1
Trichloroethene	ND		1.0	0.46	ug/L			09/15/19 01:19	1

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Job ID: 480-158667-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-492135/7

Project/Site: Former Accurate Die Cast

Matrix: Water

Analysis Batch: 492135

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1,2-Dichloroethane-d4 (Surr) 77 - 120 09/15/19 01:19 102 4-Bromofluorobenzene (Surr) 108 73 - 120 09/15/19 01:19 Toluene-d8 (Surr) 102 80 - 120 09/15/19 01:19 101 75 - 123 Dibromofluoromethane (Surr) 09/15/19 01:19

Lab Sample ID: LCS 480-492135/5

Matrix: Water

Analysis Batch: 492135

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1,2,2-Tetrachloroethane	25.0	25.0		ug/L		100	76 - 120	
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	74 - 124	
Methylene Chloride	25.0	24.1		ug/L		96	75 - 124	
Tetrachloroethene	25.0	24.0		ug/L		96	74 - 122	
Toluene	25.0	24.7		ug/L		99	80 - 122	
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	73 - 127	
Trichloroethene	25.0	25.3		ug/L		101	74 - 123	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	106		73 - 120
Toluene-d8 (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	105		75 - 123

Client Sample ID: INFLUENT GRAB 090419

Prep Type: Total/NA

Analysis Batch: 492135

Matrix: Water

Lab Sample ID: 480-158667-5 MS

Alialysis Datch. 432133										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1,2,2-Tetrachloroethane	ND		200	210		ug/L		105	76 - 120	
cis-1,2-Dichloroethene	ND		200	217		ug/L		108	74 - 124	
Methylene Chloride	ND		200	196		ug/L		98	75 - 124	
Tetrachloroethene	ND		200	215		ug/L		108	74 - 122	
Toluene	ND		200	211		ug/L		105	80 - 122	
trans-1,2-Dichloroethene	ND		200	207		ug/L		104	73 - 127	
Trichloroethene	380		200	563		ug/L		94	74 - 123	

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	108		73 - 120
Toluene-d8 (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	103		75 - 123

Eurofins TestAmerica, Buffalo

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-158667-1

Prep Type: Total/NA

Prep Batch: 490691

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 491925**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-158667-5 MSD Client Sample ID: INFLUENT GRAB 090419

Matrix: Water

Analysis Batch: 492135

Prep Type: Total/NA

Sample Sample MSD MSD **RPD** Spike %Rec. Result Qualifier Added Result Qualifier D %Rec Limits RPD Limit Analyte Unit 1,1,2,2-Tetrachloroethane ND 200 76 - 120 197 ug/L 98 15 cis-1,2-Dichloroethene ND 200 204 ug/L 102 74 - 124 15 ug/L Methylene Chloride ND 200 188 94 75 - 124 15 Tetrachloroethene ND 200 205 ug/L 103 74 - 1225 20 Toluene ND 200 203 ug/L 101 80 - 122 15 trans-1,2-Dichloroethene ND 200 195 ug/L 97 73 - 127 6 20 380 200 Trichloroethene 534 ug/L 79 74 - 123 16

MSD MSD

%Recovery	Qualifier	Limits
100		77 - 120
105		73 - 120
102		80 - 120
100		75 - 123
	100 105 102	105 102

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-490691/1-A **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 491322

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Zinc	ND		0.010	0.0015	mg/L		09/09/19 09:35	09/10/19 18:53	1	

Lab Sample ID: LCS 480-490691/2-A

Analysis Batch: 491322								e: Total/NA ch: 490691
-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Zinc	0.200	0.202		mg/L		101	80 - 120	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-491925/1-A

Matrix: Water

Analysis Batch: 492040

MR ME

	1410	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/19 12:00	09/13/19 16:13	1

Lab Sample ID: LCS 480-491925/2-A

Matrix: Water

Analysis Batch: 492040

		• • • • • • • • • • • • • • • • • • • •	one campio is: Eas control campio
			Prep Type: Total/NA
			Prep Batch: 491925
Spike	LCS LCS		%Rec.
Added	Result Qualifier	Unit	D %Rec Limits

Analyte Mercury 0.00667 0.00682 mg/L 102 80 - 120

Eurofins TestAmerica, Buffalo

9/17/2019

QC Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-158667-1

Prep Type: Total/NA

Dil Fac

Dil Fac

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-491105/1

Lab Sample ID: LCS 480-491105/2

Matrix: Water

Matrix: Water

Total Suspended Solids

Analyte

Analysis Batch: 491105

Analysis Batch: 491105

MB MB

Analyte Total Suspended Solids ND

Result Qualifier

RL 1.0

Spike

Added

254

RL Unit 1.0 mg/L

LCS LCS

248.4

Result Qualifier

MDL Unit

4.0 mg/L

mg/L

09/10/19 08:32 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Client Sample ID: Method Blank

Analyzed

Unit

Prepared

%Rec. D %Rec Limits 98 88 - 110

Client Sample ID: Method Blank

Analyzed

09/09/19 10:03

Prep Type: Total/NA

Prep Type: Total/NA

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-490898/1 **Matrix: Water**

Analysis Batch: 490898

MB MB Analyte Result Qualifier **Total Dissolved Solids** ND

Lab Sample ID: LCS 480-490898/2 **Matrix: Water**

Analysis Batch: 490898

Analyte

Total Dissolved Solids

500

Spike LCS LCS Added Result Qualifier

482.0

RL

10.0

Unit mg/L

D %Rec 96

Prepared

%Rec. Limits 85 - 115

Client Sample ID: Lab Control Sample

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-158667-1

GC/MS VOA

Analysis Batch: 491772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158667-2	BETWEEN CARBONS 090419	Total/NA	Water	8260C	
480-158667-4	EFFLUENT GRAB 090419	Total/NA	Water	8260C	
MB 480-491772/7	Method Blank	Total/NA	Water	8260C	
LCS 480-491772/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 492135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158667-5	INFLUENT GRAB 090419	Total/NA	Water	8260C	
MB 480-492135/7	Method Blank	Total/NA	Water	8260C	
LCS 480-492135/5	Lab Control Sample	Total/NA	Water	8260C	
480-158667-5 MS	INFLUENT GRAB 090419	Total/NA	Water	8260C	
480-158667-5 MSD	INFLUENT GRAB 090419	Total/NA	Water	8260C	

Metals

Prep Batch: 490691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158667-1	EFFLUENT 090419	Total/NA	Water	3005A	
480-158667-3	INFLUENT 090419	Total/NA	Water	3005A	
MB 480-490691/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-490691/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 491322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158667-1	EFFLUENT 090419	Total/NA	Water	6010C	490691
480-158667-3	INFLUENT 090419	Total/NA	Water	6010C	490691
MB 480-490691/1-A	Method Blank	Total/NA	Water	6010C	490691
LCS 480-490691/2-A	Lab Control Sample	Total/NA	Water	6010C	490691

Prep Batch: 491925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158667-1	EFFLUENT 090419	Total/NA	Water	7470A	
480-158667-3	INFLUENT 090419	Total/NA	Water	7470A	
MB 480-491925/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-491925/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 492040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158667-1	EFFLUENT 090419	Total/NA	Water	7470A	491925
480-158667-3	INFLUENT 090419	Total/NA	Water	7470A	491925
MB 480-491925/1-A	Method Blank	Total/NA	Water	7470A	491925
LCS 480-491925/2-A	Lab Control Sample	Total/NA	Water	7470A	491925

General Chemistry

Analysis Batch: 490898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158667-1	EFFLUENT 090419	Total/NA	Water	SM2540 C	<u> </u>
MB 480-490898/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-490898/2	Lab Control Sample	Total/NA	Water	SM2540 C	

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QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-158667-1

General Chemistry

Analysis Batch: 491105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158667-1	EFFLUENT 090419	Total/NA	Water	SM 2540D	
MB 480-491105/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-491105/2	Lab Control Sample	Total/NA	Water	SM 2540D	

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Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 090419

Date Collected: 09/04/19 07:20 Date Received: 09/05/19 08:00

Lab Sample ID: 480-158667-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			490691	09/09/19 09:35	EMB	TAL BUF
Total/NA	Analysis	6010C		1	491322	09/10/19 19:19	AMH	TAL BUF
Total/NA	Prep	7470A			491925	09/13/19 12:00	BMB	TAL BUF
Total/NA	Analysis	7470A		1	492040	09/13/19 16:41	BMB	TAL BUF
Total/NA	Analysis	SM 2540D		1	491105	09/10/19 08:32	ZFM	TAL BUF
Total/NA	Analysis	SM2540 C		1	490898	09/09/19 10:03	ZFM	TAL BUF

Client Sample ID: BETWEEN CARBONS 090419

Date Collected: 09/04/19 07:20 Date Received: 09/05/19 08:00

Lab Sample ID: 480-158667-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	491772	09/12/19 22:41	OMI	TAL BUF

Client Sample ID: INFLUENT 090419

Date Collected: 09/04/19 07:20 Date Received: 09/05/19 08:00

Lab Sample ID: 480-158667-3

Lab Sample ID: 480-158667-4

Matrix: Water

Batch Dilution Batch Batch Prepared **Prep Type** Type Method Run **Factor** Number or Analyzed Analyst Lab Total/NA 3005A 490691 09/09/19 09:35 EMB Prep TAL BUF Total/NA 6010C 491322 09/10/19 19:23 AMH Analysis 1 TAL BUF Total/NA 7470A 491925 09/13/19 12:00 BMB TAL BUF Prep Total/NA 492040 09/13/19 16:43 BMB TAL BUF Analysis 7470A 1

Client Sample ID: EFFLUENT GRAB 090419

Date

Date

•	•
ite Collected: 09/04/19 07:20	Matrix: Water
te Received: 09/05/19 08:00	

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	491772	09/12/19 23:05	OMI	TAL BUF

Client Sample ID: INFLUENT GRAB 090419

Date Collected: 09/04/19 07:20

Lab Sample ID: 480-158667-5 **Matrix: Water** Date Received: 09/05/19 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		8	492135	09/15/19 02:08	S1V	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-158667-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-158667-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Sample Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-158667-1

480-158667-2 BETWEEN CARBONS 090419 Water 09/04/19 07:20 09/05/19 08:00 480-158667-3 INFLUENT 090419 Water 09/04/19 07:20 09/05/19 08:00 480-158667-4 EFFLUENT GRAB 090419 Water 09/04/19 07:20 09/05/19 08:00	Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-158667-3 INFLUENT 090419 Water 09/04/19 07:20 09/05/19 08:00 480-158667-4 EFFLUENT GRAB 090419 Water 09/04/19 07:20 09/05/19 08:00	480-158667-1	EFFLUENT 090419	Water	09/04/19 07:20	09/05/19 08:00	
480-158667-4 EFFLUENT GRAB 090419 Water 09/04/19 07:20 09/05/19 08:00	480-158667-2	BETWEEN CARBONS 090419	Water	09/04/19 07:20	09/05/19 08:00	
	480-158667-3	INFLUENT 090419	Water	09/04/19 07:20	09/05/19 08:00	
480-158667-5 INFLLIENT GRAB 090419 Water 09/04/19 07:20 09/05/19 08:00	480-158667-4	EFFLUENT GRAB 090419	Water	09/04/19 07:20	09/05/19 08:00	
400 100001 0 INT ESERT STATE 000410	480-158667-5	INFLUENT GRAB 090419	Water	09/04/19 07:20	09/05/19 08:00	

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Chain of Custody Record

Eurofins TestAmerica, Buffalo

Phone: 716-691-2600 Fax: 716-691-7991

Amherst, NY 14228-2298

10 Hazelwood Drive

eurofins Environment Testing Testing

M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetore
V - MCAA
W - pH 4-5 Ver. 01/16/2019 Special Instructions/Note: Z - other (specify) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon SWracus #0-122346-10589.1 reservation Codes 0800 3 Page 1 of 1 Job#: A - HCL B - NaOH C - Zn Acetate Total Number of c M 06 3 480-158667 Chain of Custody Sate/Time. Method of Shipment. Analysis Requested Cooler Temperature(s) °C and Other Remarks Special Instructions/QC Requirements Lab PM: Schove, John R E-Mail: John schove@testamericainc.com YNDDIAM - AOTA Return To Client m n 200C - Volatile Organic Compounds Time: Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) 3=grab) | BT-Tissue, A-Air) Preservation Code: Water Matrix Water Water 3 3 Radiological Type (C=comp, G=grab) Koenmute Sample 0 9 315-739-1300 17:45 000 7:20 7:30 1:30 7:30 7:30 Sample Time Date: Unknown MARTIN ROTING TAT Requested (days): Sate/Time: Due Date Requested: 61-12-18 Sample Date 61-4-6 61-4-6 61-4-6 61-4-6 61-4-6 Project #. 48008584 SSOW#: 11900114 Poison B Skin Irritant eliverable Requested: I, II, III, IV, Other (specify) Custody Seals Intact: Custody Seal No. 333 West Washington St. PO BOX 4873 315-956-6100(Tel) 315-463-7554(Fax) Efternt 090419 614060 Non-Hazard Flammable O'Brien & Gere Inc of North America Setween Carbons 090419 Possible Hazard Identification 614040 614060 mpty Kit Relinquished by: Former Accurate Die Cast Sample Identification Client Information Influent Yuri, Veliz@obg.com ime nquished by. East Syracuse quished by Mr. Yuri Veliz State, Zip: NY, 13221 nffluent Effluent

Client: O'Brien & Gere Inc of North America

Job Number: 480-158667-1

Login Number: 158667

List Number: 1

Creator: Harper, Marcus D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OBG
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-158868-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America 333 West Washington St. PO BOX 4873 East Syracuse, New York 13221

Attn: Mr. David J Carnevale

Julian De My

Authorized for release by: 9/16/2019 2:42:08 PM

Julianna DuHart, Project Management Assistant I julianna.duhart@testamericainc.com

Designee for

John Schove, Project Manager II (716)504-9838

john.schove@testamericainc.com

LINKS

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Have a Question?



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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

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Definitions/Glossary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-158868-1

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) Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL Minimum Level (Dioxin) ML 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)

RLReporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ**

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-158868-1

Job ID: 480-158868-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-158868-1

Receipt

The sample was received on 9/10/2019 9:40 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

General Chemistry

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

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Detection Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-158868-1

Client Sample ID: EFFLUENT 090919

Lab Sample ID: 480-158868-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Total Dissolved Solids	630	10.0	4.0 mg/L	1 SM2540 C	Total/NA

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Client Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Lab Sample ID: 480-158868-1

Client Sample ID: EFFLUENT 090919 Date Collected: 09/09/19 07:10

Matrix: Water

Job ID: 480-158868-1

Date Received: 09/10/19 09:40

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	630		10.0	4.0	mg/L			09/10/19 11:54	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			09/12/19 14:20	1

Client: O'Brien & Gere Inc of North America Job ID: 480-158868-1 Project/Site: Former Accurate Die Cast

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-491749/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 491749

MB MB

Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac 1.0 Total Suspended Solids 1.0 mg/L 09/12/19 14:20 $\overline{\mathsf{ND}}$

Lab Sample ID: LCS 480-491749/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 491749

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits 257 **Total Suspended Solids** 252.4 mg/L 98 88 - 110

Lab Sample ID: 480-158868-1 DU Client Sample ID: EFFLUENT 090919

Matrix: Water

Analysis Batch: 491749 Sample Sample DU DU **RPD** Analyte Result Qualifier Result Qualifier Unit D RPD Limit

Total Suspended Solids ND NC 10 ND mg/L

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-491182/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 491182

MB MB RL Analyte Result Qualifier **MDL** Unit Prepared Analyzed Dil Fac **Total Dissolved Solids** 10.0 4.0 mg/L ND 09/10/19 11:54

Lab Sample ID: LCS 480-491182/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 491182

Spike LCS LCS %Rec. Added Limits Analyte Result Qualifier Unit %Rec **Total Dissolved Solids** 500 486.0 mg/L 97 85 - 115

Eurofins TestAmerica, Buffalo

Prep Type: Total/NA

Prep Type: Total/NA

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-158868-1

General Chemistry

Analysis Batch: 491182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158868-1	EFFLUENT 090919	Total/NA	Water	SM2540 C	
MB 480-491182/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-491182/2	Lab Control Sample	Total/NA	Water	SM2540 C	

Analysis Batch: 491749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158868-1	EFFLUENT 090919	Total/NA	Water	SM 2540D	-
MB 480-491749/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-491749/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-158868-1 DU	EFFLUENT 090919	Total/NA	Water	SM 2540D	

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Lab Chronicle

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 090919

Job ID: 480-158868-1

Lab Sample ID: 480-158868-1

Matrix: Water

Date Collected: 09/09/19 07:10 Date Received: 09/10/19 09:40

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	491749	09/12/19 14:20	CSS	TAL BUF
Total/NA	Analysis	SM2540 C		1	491182	09/10/19 11:54	CSS	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-158868-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-158868-1

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"
SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Sample Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-158868-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-158868-1	EFFLUENT 090919	Water	09/09/19 07:10	09/10/19 09:40	

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Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991	υ	Chain of Custody Record	f Cus	tody R	ecord				Environment Testing TestAmerica
Client Information	Sampler	Kneuns	out.	Lab PM: Schov	M. ove. John R				-
Client Contact. Mr. Yuri Veliz	Phone: 315-17	729-13		E-Ma john	E-Mail: john.schove@t	E-Mail: john.schove@testamericainc.com			
Company: O'Brien & Gere Inc of North America						Analysi	,	480-158868 Chain of C	
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:	#					-	Custody	
City. East Syracuse State, Zip. NY, 13221	TAT Requested (days):	/s):						B - Nacc. C - Zn Acetate C - Zn Acetate D - Ninc Acid	
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO#. 11900114				(0	st		F - MeOH G - Amchlor H - Ascorbic	R - Na2S2O3 S - H2SO4 Acid T - TSP Dodecahydrate
Email: Yuri.Veliz@obg.com	#OM				(oN	illoS be			
Project Name: Former Accurate Die Cast Sile:	Project #: 48008584 SSOW#:				D (Yes or)	evlossiQ lsto			W - pH 4-5 Z - other (specify)
Samole identification	Sample Date	Sample	Sample Type (C=comp,	Matrix (Wewster, Sesolid, Ownsteloli,	S benetti i bisi EMISM mohe endon - dotas	of - bolsO_0042		obal Number c	Special Instructions Moto
Odnipre recitations	V V	X	Preserva	Preservation Code:	X	ZZ			dal man denonalizadora
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ant	Doison B Unknown		Radiological	70	III III	Return To Client	e may be assessed it sam Disposal By Lab	Sample Disposal (A fee may be assessed it samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mon	nan 1 month) Months
. III, IV, O					Speci	Special Instructions/QC Requirements			
Empty Kit Relinquished by:		Date: /			Time:		Meth	Method of Shipment:	
Reinquisted by Kinghy	9-9-19	110	05:01	Company	Rec	Calved by CAL	2 Jac	1 Date/Tires 9-9-19	OX. Dalos
Relinquished by: Reflicit 1.0	Date/Time:	19:00	00	Company	2 Ru	Received by.		Datefrime.	Company
Custody Seals Intact: Custody Seal No.:					0	Cooler Temperature(s) °C and Other Remarks:	and Other Remarks:	19 66	

Client: O'Brien & Gere Inc of North America

Job Number: 480-158868-1

Login Number: 158868 List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

ordator. Gtopa, Erik G		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OBG
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-159266-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America 333 West Washington St. PO BOX 4873 East Syracuse, New York 13221

Attn: Mr. David J Carnevale

The

Authorized for release by: 9/27/2019 3:39:01 PM Rebecca Jones, Project Management Assistant I rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II (716)504-9838 john.schove@testamericainc.com

LINKS

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Have a Question?



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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

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Definitions/Glossary

Client: O'Brien & Gere Inc of North America

Job ID: 480-159266-1

Project/Site: Former Accurate Die Cast

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Glossary

TEF

TEQ

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

Eurofins TestAmerica, Buffalo

9/27/2019

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-159266-1

Job ID: 480-159266-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-159266-1

Receipt

The sample was received on 9/17/2019 8:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

GC/MS VOA

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

General Chemistry

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

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Detection Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-159266-1

Client Sample ID: EFFLUENT 091619

Lab Sample ID: 480-159266-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Total Dissolved Solids	660	10.0	4.0 mg/L		SM2540 C	Total/NA

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Client Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-159266-1

Lab Sample ID: 480-159266-1

Client Sample ID: EFFLUENT 091619

Date Collected: 09/16/19 07:00 Date Received: 09/17/19 08:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/25/19 23:36	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/25/19 23:36	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/25/19 23:36	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/25/19 23:36	1
Toluene	ND		1.0	0.51	ug/L			09/25/19 23:36	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/25/19 23:36	1
Trichloroethene	ND		1.0	0.46	ug/L			09/25/19 23:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120			=		09/25/19 23:36	1
4-Bromofluorobenzene (Surr)	102		73 - 120					09/25/19 23:36	1
Toluene-d8 (Surr)	101		80 - 120					09/25/19 23:36	1
Dibromofluoromethane (Surr)	99		75 - 123					09/25/19 23:36	1
- General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	660		10.0	4.0	mg/L			09/20/19 12:09	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			09/19/19 15:03	1

Surrogate Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-159266-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

_			Percent Su	Percent Surrogate Recovery (Acceptance Lim			
		DCA	BFB	TOL	DBFM		
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)		
480-159266-1	EFFLUENT 091619	103	102	101	99		
LCS 480-494029/5	Lab Control Sample	106	104	99	112		
MB 480-494029/7	Method Blank	107	99	100	102		
Surrogate Legend							
DCA = 1,2-Dichloroeth	ane-d4 (Surr)						

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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Job ID: 480-159266-1

Client Sample ID: Method Blank

09/25/19 23:12

09/25/19 23:12

09/25/19 23:12

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-494029/7 **Matrix: Water**

Matrix: Water								Prep Type: 1	otal/NA
Analysis Batch: 494029									
	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/25/19 23:12	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/25/19 23:12	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/25/19 23:12	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/25/19 23:12	1

1.0

1.0

1.0

0.51 ug/L

0.90 ug/L

0.46 ug/L

	IVIB	MB					
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120	_		09/25/19 23:12	1
4-Bromofluorobenzene (Surr)	99		73 - 120			09/25/19 23:12	1
Toluene-d8 (Surr)	100		80 - 120			09/25/19 23:12	1
Dibromofluoromethane (Surr)	102		75 - 123			09/25/19 23:12	1

Lab Sample ID: LCS 480-494029/5

Matrix: Water

Toluene

trans-1,2-Dichloroethene

Trichloroethene

Analysis Batch: 494029

Client Sample ID: Lab Control Sample Prep Type: Total/NA

LCS LCS %Rec. Spike Added Result Qualifier Analyte Unit %Rec Limits 25.0 1,1,2,2-Tetrachloroethane 21.6 87 76 - 120 ug/L cis-1,2-Dichloroethene 25.0 26.7 ug/L 107 74 - 124 Methylene Chloride 25.0 24.1 97 75 - 124 ug/L Tetrachloroethene 25.0 27.2 ug/L 109 74 - 122 Toluene 25.0 23.6 ug/L 94 80 - 122 trans-1,2-Dichloroethene 25.0 25.6 ug/L 102 73 - 127 Trichloroethene 25.0 26.1 ug/L 104 74 - 123

LCS LCS

ND

ND

ND

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		77 - 120
4-Bromofluorobenzene (Surr)	104		73 - 120
Toluene-d8 (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	112		75 - 123

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-492992/1

Matrix: Water

Analysis Batch: 492992

Client Sample ID: Method Blank Prep Type: Total/NA

мв мв

Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	1.0	1.0	mg/L			09/19/19 15:03	1

Lab Sample ID: LCS 480-492992/2

Matrix: Water

ı	Analysis Batch: 492992								
		Spike	LCS	LCS				%Rec.	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Total Suspended Solids	255	242.4	-	mg/L		95	88 - 110	

Eurofins TestAmerica, Buffalo

Client Sample ID: Lab Control Sample

Page 8 of 16

Prep Type: Total/NA

QC Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-159266-1

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-493198/1 Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA

Analysis Batch: 493198 MB MB

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND ND	10.0	4.0 mg/L			09/20/19 12:09	1

Lab Sample ID: LCS 480-493198/2 **Client Sample ID: Lab Control Sample**

Matrix: Water Prep Type: Total/NA

Analysis Batch: 493198 LCS LCS Spike %Rec.

Added Result Qualifier Unit %Rec Limits D **Total Dissolved Solids** 500 469.0 mg/L 94 85 - 115

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-159266-1

GC/MS VOA

Analysis Batch: 494029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-159266-1	EFFLUENT 091619	Total/NA	Water	8260C	
MB 480-494029/7	Method Blank	Total/NA	Water	8260C	
LCS 480-494029/5	Lab Control Sample	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 492992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-159266-1	EFFLUENT 091619	Total/NA	Water	SM 2540D	
MB 480-492992/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-492992/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 493198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-159266-1	EFFLUENT 091619	Total/NA	Water	SM2540 C	
MB 480-493198/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-493198/2	Lab Control Sample	Total/NA	Water	SM2540 C	

Lab Chronicle

Client: O'Brien & Gere Inc of North America Job ID: 480-159266-1

Project/Site: Former Accurate Die Cast

Date Received: 09/17/19 08:00

Client Sample ID: EFFLUENT 091619

Lab Sample ID: 480-159266-1 Date Collected: 09/16/19 07:00

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	494029	09/25/19 23:36	ВТР	TAL BUF
Total/NA	Analysis	SM 2540D		1	492992	09/19/19 15:03	ZFM	TAL BUF
Total/NA	Analysis	SM2540 C		1	493198	09/20/19 12:09	CSS	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America
Project/Site: Former Accurate Die Cast

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20

Job ID: 480-159266-1

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-159266-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Sample Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-159266-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-159266-1	EFFLUENT 091619	Water	09/16/19 07:00	09/17/19 08:00	

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Cilelli III Oli III allo	Sampler.	v Koenn	weeks	Schove	, John R		5	COC No. 480-122353-10587.1	0587.1
Glent Contact: Mr. Yuri Veliz	Phone: 315	22	300	E-Mail: john.sc	hove@test	E-Mail: john.schove@testamericainc.com	#004		
Company. O'Brien & Gere Inc of North America						An			
Address: 333 West Washington St. PO BOX 4873	Due Date Requested	;pi						ľ	Codes:
City. East Syracuse No. 44004	TAT Requested (days):	iys):					480-159266 Chain of Custody		M - Hexane N - None O - ASN8O2 P - Na2O4S Q - Na2SO3
Phone Phone 315-056-6100(Tel) 315-463-7554(Eav)	PO#:			T				F - MeOH G - Amchlor	
Email: Yuri.Veliz@obg.com	#OM			1	(0)	_		1 - Ice J - DI Water	
Project Name Former Accurate Die Cast Site:	Project # 48008584 SSOW#:				D (Yes or A	30000		Container L-EDA Other:	W - pH 4-5 Z - ather (specify)
Sample Identification	Sample Date	Sample (0	Sample Type (C=comp, G=grab)		Field Filtered Sa Pertorm MS/MS 2540D - Total Sus	2640C - DolaD_D042S		Total Number of	Special Instructions/Note:
Ш	X.		Preservation Code:	1	z X				
Effluent 0916 /9	4-16-14	7:00	J	Water	_	1		8	
EARLIENT 091619	6-110-19	7:00	9	water		M		3	
10			1						
9.11.0									
11-9/-1			1						
	7								
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Deliverable Beausated: 1.11 III N. Other (specific)	Poison B Unknown		Radiological		Sample	Sample Disposal (A fee may be asset	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mon	s are retained longer tha	n 1 month) Months
Deliverable Neducested. 1, 11, 11, 11, Curer (specify)			1		obecia	Day of the state o	requirements.		
Empty Kit Kelinquished by:	Doto	Date:		-	lime		method of shipmen	ant	
Marte General	1-01-6-1	1	00:00	OBC	Kecel		11.15	16 19, 10:0	Scompany 1
Relinquished by RELIGIUM	DataTime. 19	1		Con v	Rec	whed By all	of Barethan	11/140800	Company
Relinquished by:	Date/Time:		0	Confeany	Receiv	eived by.	Date/Time	Time:	Company
Custody Seals Infact: Custody Seal No.:					Cool	or Tomoscatura(e)	Cooler Temperaturale, of and Other Bamarke	0 141	1 00

Client: O'Brien & Gere Inc of North America

Job Number: 480-159266-1

Login Number: 159266 List Source: Eurofins TestAmerica, Buffalo

List Number: 1 Creator: Stopa, Erik S

ordator. Otopa, Erik o		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OBG
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Eurofins TestAmerica, Buffalo

Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-160001-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America 333 West Washington St. PO BOX 4873 East Syracuse, New York 13221

Attn: Mr. David J Carnevale

The

Authorized for release by: 10/11/2019 5:37:04 PM Rebecca Jones, Project Management Assistant I rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II (716)504-9838 john.schove@testamericainc.com

LINKS

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Have a Question?



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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

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Definitions/Glossary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Job ID: 480-160001-1

Glossary

QC

RL

RER

RPD

TEF

TEQ

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) Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry) Method Detection Limit MDL Minimum Level (Dioxin) ML NC Not Calculated ND Not Detected at the reporting limit (or MDL or EDL if shown) PQL **Practical Quantitation Limit**

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Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-160001-1

Job ID: 480-160001-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-160001-1

Receipt

The sample was received on 10/1/2019 8:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

General Chemistry

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

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Detection Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-160001-1

Client Sample ID: EFFLUENT 093019

Lab Sample ID: 480-160001-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Total Dissolved Solids	608	10.0	4.0 mg/L	1 SM2540 C	Total/NA

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Client Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Lab Sample ID: 480-160001-1

Client Sample ID: EFFLUENT 093019 Date Collected: 09/30/19 07:00

Date Received: 10/01/19 08:00

	Matrix:	Water

Job ID: 480-160001-1

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analvzed	Dil Fac
Total Dissolved Solids	608		10.0		mg/L	<u>-</u> -	11000100	10/03/19 09:59	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			10/02/19 13:38	1

QC Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-160001-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-495478/1 **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 495478

Prep Type: Total/NA MB MB

Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac 1.0 Total Suspended Solids 1.0 mg/L 10/02/19 13:38 ND

Lab Sample ID: LCS 480-495478/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 495478

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits 245 **Total Suspended Solids** 244.4 mg/L 100 88 - 110

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-495687/1 **Client Sample ID: Method Blank Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 495687

MB MB RL **MDL** Unit Analyte Result Qualifier **Prepared** Analyzed Dil Fac 4.0 mg/L 10/03/19 09:59 **Total Dissolved Solids** 10.0 ND

Lab Sample ID: LCS 480-495687/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 495687

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits **Total Dissolved Solids** 500 459.0 mg/L 92 85 - 115

10/11/2019

QC Association Summary

Client: O'Brien & Gere Inc of North America
Project/Site: Former Accurate Die Cast

Job ID: 480-160001-1

General Chemistry

Analysis Batch: 495478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-160001-1	EFFLUENT 093019	Total/NA	Water	SM 2540D	
MB 480-495478/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-495478/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 495687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-160001-1	EFFLUENT 093019	Total/NA	Water	SM2540 C	
MB 480-495687/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-495687/2	Lab Control Sample	Total/NA	Water	SM2540 C	

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Lab Chronicle

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-160001-1

Client Sample ID: EFFLUENT 093019 Lab Sample ID: 480-160001-1

Date Collected: 09/30/19 07:00 **Matrix: Water**

Date Received: 10/01/19 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	495478	10/02/19 13:38	CSS	TAL BUF
Total/NA	Analysis	SM2540 C		1	495687	10/03/19 09:59	CSS	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-160001-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-160001-1

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"
SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Sample Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-160001-1

Lab Camala ID	Olivert Overelle ID	B# -4-1	0 - 1141	D	A 4 ID
Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-160001-1	EFFLUENT 093019	Water	09/30/19 07:00	10/01/19 08:00	

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1/

Client: O'Brien & Gere Inc of North America

Job Number: 480-160001-1

Login Number: 160001

List Number: 1

Creator: Harper, Marcus D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OBG
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-160013-1

Client Project/Site: Former Accurate Die Cast

For:

eurofins 🙀

O'Brien & Gere Inc of North America 333 West Washington St. PO BOX 4873 East Syracuse, New York 13221

Attn: Mr. David J Carnevale

Arof

Authorized for release by: 10/9/2019 9:43:07 AM Alexander Gilbert, Project Management Assistant I alexander.gilbert@testamericainc.com

Designee for

John Schove, Project Manager II (716)504-9838 john.schove@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

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Definitions/Glossary

Client: O'Brien & Gere Inc of North America Job ID: 480-160013-1

Project/Site: Former Accurate Die Cast

Glossary

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
Percent Recovery
Contains Free Liquid
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)
Dilution Factor
Detection Limit (DoD/DOE)
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
Decision Level Concentration (Radiochemistry)
Estimated Detection Limit (Dioxin)
Limit of Detection (DoD/DOE)
Limit of Quantitation (DoD/DOE)
Minimum Detectable Activity (Radiochemistry)
Minimum Detectable Concentration (Radiochemistry)
Method Detection Limit
Minimum Level (Dioxin)
Not Calculated
Not Detected at the reporting limit (or MDL or EDL if shown)
Practical Quantitation Limit
Quality Control
Relative Error Ratio (Radiochemistry)
Reporting Limit or Requested Limit (Radiochemistry)
Relative Percent Difference, a measure of the relative difference between two points
Toxicity Equivalent Factor (Dioxin)
Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-160013-1

Job ID: 480-160013-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-160013-1

Receipt

The sample was received on 9/28/2019 8:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

General Chemistry

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

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Detection Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-160013-1

Client Sample ID: EFFLUENT 092719

Lab Sample ID: 480-160013-1

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Solids	4.8	4.0	4.0 mg/L		SM 2540D	Total/NA
Total Dissolved Solids	665	10.0	4.0 mg/L	1	SM2540 C	Total/NA

Client Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast Job ID: 480-160013-1

Client Sample ID: EFFLUENT 092719

Lab Sample ID: 480-160013-1

Matrix: Water

Date Collected: 09/27/19 07:00 Date Received: 09/28/19 08:00

	General Chemistry									
4	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ī	otal Dissolved Solids	665		10.0	4.0	mg/L			10/02/19 11:00	1
4	Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lī	otal Suspended Solids	4.8		4.0	4.0	mg/L			10/02/19 13:38	1

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QC Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-160013-1

Prep Type: Total/NA

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-495478/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 495478

	MB	MB							
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			10/02/19 13:38	1

Lab Sample ID: LCS 480-495478/2 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 495478

-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Suspended Solids	245	244.4		mg/L		100	88 - 110	

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-495426/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 495426

	MB	MB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepa	ared	Analyzed	Dil Fac	
Total Dissolved Solids	ND		10.0	4.0	mg/L				10/02/19 11:00	1	

Lab Sample ID: LCS 480-495426/2 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 495426

	Spike	LCS	LCS			%Rec.	
Analyte	Added	Result	Qualifier Un	it D	%Rec	Limits	
Total Dissolved Solids	 500	491.0	mg	g/L	98	85 - 115	

10/9/2019

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-160013-1

General Chemistry

Analysis Batch: 495426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-160013-1	EFFLUENT 092719	Total/NA	Water	SM2540 C	
MB 480-495426/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-495426/2	Lab Control Sample	Total/NA	Water	SM2540 C	

Analysis Batch: 495478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-160013-1	EFFLUENT 092719	Total/NA	Water	SM 2540D	
MB 480-495478/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-495478/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Lab Chronicle

Client: O'Brien & Gere Inc of North America Job ID: 480-160013-1

Project/Site: Former Accurate Die Cast

Date Received: 09/28/19 08:00

Client Sample ID: EFFLUENT 092719

Lab Sample ID: 480-160013-1 Date Collected: 09/27/19 07:00

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	495478	10/02/19 13:38	CSS	TAL BUF
Total/NA	Analysis	SM2540 C		1	495426	10/02/19 11:00	CSS	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America

Project/Site: Former Accurate Die Cast

Job ID: 480-160013-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-160013-1

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Sample Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast

Job ID: 480-160013-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-160013-1	EFFLUENT 092719	Water	09/27/19 07:00	09/28/19 08:00	

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Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991)	all	cno	citalli di custotty necolu	pion		Syraciise	TestAmerica
	Sampler, 7			Lab PM:			ameg fracking Nots);	
Client Information	111/	ROENNEO	£000	Schove	Schove, John R		#00E	480-122378-10586.1
Cirent Contract Mr. Yuri Veliz	215-739	19-1300	00	john.sc	E-Mail: john.schove@testamericainc.com	icainc.com	C77#	Page 1 of 1
Company O'Brien & Gere Inc of North America						Analysis Requested	uested	# 400
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:						-	Preservation Codes:
City. East Syracuse State, Zip. NY 13021	TAT Requested (days):	:(8						DLEXGE
315-956-6100(Tel) 315-463-7554(Fax)	PO#.						480-16001	480-160013 Chair of a
Email: Yuri.Veliz@obg.com	WO#:			ON JO	spi (o)			The Constady
Project Name: Former Accurate Die Cast Site:	Project # 48008584 SSOW#:			say) alome	1 to seY) Os			K - EDIA Z - other (special of the right)
Samola Identification	Sample Date	Sample	Sample Type (C=comp,	Matrix (wwwater, S=solid, O=wwater)	Perform MS/MS Se40D - Total Sus Se40C_Calcd - To			Noncial Instructions Note:
oampie tremmination	Sample Care	X	Preservation Code:		Z			
Efficient of During	0 40 0	Pr. Co	7	Water				7
V	11-16-1	2	Com					5
Par /								
9-23-19								
	/							
	/							
	/							
Possible Hazard Identification Non-Hazard — Flammable Skin Imitant	☐ Poison B ☐ Unknown		Radiological		Sample Disp	le Disposal (A fee may be a Return To Client	assessed if samples are i	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Months
ssted: I, II, III, IV, O					Special Instru	Special Instructions/QC Requirements		
Empty Kit Relinquished by:		Date:			Time:		Method of Shipment	
Relinquished Dy Court	Date(Time: 37,	19 1	0:30	980	Received	11/2/11	6 Date Filme: 3	7-19, 10,20 Company
Relinquished by. R. F. 1911 h. Relinquished by.	Date/Time:	1/6	00.6	Company	Received by	wille	Date/Time:	14 0800 company
Custody Seals Intact: Custody Seal No.					Cooler Terr	Cooler Temperature(s) "C and Other Remarks	emarks.	00

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America Job Number: 480-160013-1

Login Number: 160013 List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

orontor: Trainage, Garrieron		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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