

January 24, 2017

Mr. John C. Grathwol, P.E.

Remedial Bureau B – Division of Environmental Remediation New York State Department of Environmental Conservation 625 Broadway Albany, NY 12233-7016

RE: Former Accurate Die Casting Site, Fayetteville, NY

FILE: 3902.45845 Corres

Dear Mr. Grathwol:

This letter presents the status of groundwater treatment plant operations for the former Accurate Die Casting site in Fayetteville, New York for the fourth quarter of 2016 (October 1 through December 31). 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 & ACTIVITIES COMPLETED

As of December 30, 2016, a total of 111,130,900 gallons of groundwater have been treated since startup on February 5, 1996. Since September 30, 2016, 611,800 gallons of groundwater have been treated: 164,990 gallons from recovery well RW-1; 446,100 gallons from recovery well RW-2; and 710 gallons from the collection trench constructed in the former VOC/PAH/PCB Soils Area. No groundwater was recovered from the sump located outside the northeast corner of the building.

OBG performed the sampling activities associated with the SPDES Fact Sheet (#734052). The analytical results associated with the SPDES Fact Sheet monitoring activities performed during October, November and December 2016 are summarized in Table 1. The effluent during the period complied with the SPDES discharge limits. The laboratory analytical data sheets are provided as Attachment A.

ACTIVITIES SCHEDULED

Continue operation of the groundwater recovery and treatment system including SPDES monitoring.

If you have any questions regarding this report, please do not hesitate to call me at (315) 956-6316.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Alfred R. Farrell, P.E.

Project Manager







cc: H. Warner – New York State Department of Environmental Conservation
T. Slutzky – The Anderson Company
Jeff Stanek – ITT Corporation
L. Hall – ITT Corporation
J. Sutphen – O'Brien & Gere, Office of General Counsel



	1												
	Discharge	Discharge	Minimum										
Analyte (units)	Limitation	Limitation	Measurement	Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
	Daily Average	Daily Maximum	Frequency (1)	Type	10/3/2016	10/4/2016	10/6/2016	10/7/2016	10/10/2016	10/11/2016	10/12/2016	10/14/2016	10/17/2016
Flow (GPD)	Monitor	150000	Continuous	Meter	4993	4930	4860	4729	4740	4770	4730	4705	4637
pH (SU)	6.5-8.5		2/Week	Grab	7.98	7.98	7.96	7.97	8.04	7.98	8.02	8.04	8.04
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.	4 U					4 U			4 U
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.	721					707			712
Mercury, total (mg/L)	Monitor	0.0008	Quarterly	3-hr comp.	0.0002								
Zinc, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	0.0021								
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	1 U								1 U
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	1 U								1 U
					1 U								1 U

		Monitoring Re	quirements											
	Discharge	Discharge	Minimum											
Analyte (units)	Limitation	Limitation	Measurement	Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
	Daily Average	Daily Maximum	Frequency (1)	Type	10/20/2016	10/21/2016	10/24/2016	10/25/2016	10/27/2016	10/28/2016	10/31/2016	11/1/2016	11/2/2016	11/3/2016
Flow (GPD)	Monitor	150000	Continuous	Meter	4543	4541	5023	5690	6115	6420	6597	6710	6770	6650
pH (SU)	6.5-8.5		2/Week	Grab	8.02	8.02	8.02	8.04	8.02	8.03	8.04	8.06	8.03	8.06
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.			4 U				4 U			
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.			725				671			
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										
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab										
Methylene chloride (ug/L)	Monitor	20	2/Month	Grab										
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	10	2/Month	Grab										
Tetrachloroethene (ug/L)	Monitor	10	2/Month	Grab										
Toluene (ug/L)	Monitor	20	2/Month	Grab										
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab										
					Notes:									
					· ·	NA - Data Not av								
							-	-	ses exceeded, B - 0	_	the blank and sam	ple		
					(1) Minimum mon	itoring requiremen	ts based on SPEDE	S permit modified	November, 21, 199	97.				

		Monitoring Re	equirements											
	Discharge	Discharge	Minimum		1									
Analyte (units)	Limitation	Limitation	Measurement	Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
	Daily Average	Daily Maximum	Frequency (1)	Type	11/4/2016	11/7/2016	11/10/2016	11/11/2016	11/15/2016	11/17/2016	11/18/2016	11/21/2016	11/23/2016	11/28/2016
Flow (GPD)	Monitor	150000	Continuous	Meter	6760	6825	6957	7000	6883	6865	6670	6787	6700	6845
pH (SU)	6.5-8.5		2/Week	Grab	8.05	8.08	8.06	8.04	8.05	8.04	8.04	8.06	8.05	8.06
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.				4 U	4 U			4 U		4 U
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.				671	723			658		678
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		
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				0.88 JB		
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				1 U				1U		
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab				1 U				1 U		
								1 U						
					Notes:									
					-	d, NA - Data No								
							-		•	•	nd in the blank and	sample		
					(1) Minimum m	onitoring requirer	nents based on SPI	EDES permit modif	fied November, 21,	1997.				

		Monitoring Re	quirements											
	Discharge	Discharge	Minimum		1									
Analyte (units)	Limitation	Limitation	Measurement	Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
	Daily Average	Daily Maximum	Frequency (1)	Type	11/29/2016	11/30/2016	12/1/2016	12/2/2016	12/5/2016	12/6/2016	12/8/2016	12/9/2016	12/12/2016	12/13/2016
Flow (GPD)	Monitor	150000	Continuous	Meter	7240	7370	7370	7650	7733	7840	7975	8190	8088	8275
pH (SU)	6.5-8.5		2/Week	Grab	8.04	8.06	8.06	8.05	8.06	8.04	8.06	8.04	8.08	8.07
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.					4 U				4 U	
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.					702				675	
Mercury, total (mg/L)	Monitor	0.0008	Quarterly	3-hr comp.					0.0002 U					
Zinc, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.					0.0047 J					
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					1 U					
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab					1 U					
									1 U					
					Notes:									
					Not analyzed,	NA - Data Not av	ailable							
					U - Not Detected,	J - Estimated, H -	Holding times for	r preparation or a	nalyses exceeded	, B - Compound	found in the blank	and sample		
					(1) Minimum mon	itoring requiremen	ts based on SPEI	DES permit modif	fied November, 2	1, 1997.				

		Monitoring Re	quirements								
	Discharge	Discharge	Minimum		1						
Analyte (units)	Limitation	Limitation	Measurement	Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	
	Daily Average	Daily Maximum	Frequency (1)	Type	12/15/2016	12/16/2016	12/19/2016	12/22/2016	12/27/2016	12/30/2016	
Flow (GPD)	Monitor	150000	Continuous	Meter	8220	8102	8265	8368	8584	8970	
pH (SU)	6.5-8.5		2/Week	Grab	8.05	8.06	8.05	8.08	8.04	8.09	
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.				4 U	4 U		
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.				686	731		
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				1 U			
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab				1 U			
								1 U			
					Notes:	W. 5 . W	2.11				
					Not analyzed,				1.15	2 16 .1: 3	1.11
							-	-		Compound found in the	lank and sample
					(1) Minimum moni	toring requirement	ts based on SPEDE	S permit modified	November, 21, 19	97.	



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 480-106913-1

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. Al Farrell



Authorized for release by: 10/10/2016 3:04:38 PM

Joe Giacomazza, Project Management Assistant II joe.giacomazza@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@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 Project/Site: Former Accurate Die Cast

Reporting Limit or Requested Limit (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

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

TestAmerica Job ID: 480-106913-1

Qualifiers

Metals

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

Glossary

RL

RPD

TEF

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
a	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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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

TestAmerica Buffalo

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-106913-1

Job ID: 480-106913-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-106913-1

Receipt

The samples were received on 10/4/2016 12:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.6° C.

GC/MS VOA

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: INFLUENT 100316 (480-106913-5). 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 TestAmerica Job ID: 480-106913-1

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Client Sample ID: EFFLUENT 100316

Lab Sample ID: 480-106913-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0021	J	0.010	0.0015	mg/L	1	_	6010C	Total/NA
Total Dissolved Solids	721		10.0	4.0	mg/L	1		SM2540 C	Total/NA

Client Sample ID: BETWEEN CARBONS 100316

Lab Sample ID: 480-106913-2

No Detections.

Client Sample ID: INFLUENT 100316

Lab Sample ID: 480-106913-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fa		Method	Prep Type
Zinc	0.0062	J	0.010	0.0015	mg/L		1 _	6010C	Total/NA

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Client Sample ID: EFFLUENT 100316

Lab Sample ID: 480-106913-4

No Detections.

Client Sample ID: INFLUENT 100316

Lab Sample ID: 480-106913-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	310		8.0	3.7	ug/L	8	_	8260C	Total/NA

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TestAmerica Job ID: 480-106913-1

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

Client Sample ID: EFFLUENT 100316

Lab Sample ID: 480-106913-1 Date Collected: 10/03/16 07:30 Matrix: Water

Date Received: 10/04/16 00:50

Method: 6010C - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.0021	J	0.010	0.0015	mg/L		10/04/16 08:55	10/05/16 16:40	1
Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		10/04/16 09:05	10/04/16 14:25	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	721		10.0	4.0	mg/L			10/04/16 16:48	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			10/04/16 12:34	1

Client Sample ID: BETWEEN CARBONS 100316

Lab Sample ID: 480-106913-2

Date Collected: 10/03/16 07:30 Matrix: Water Date Received: 10/04/16 00:50

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND ND	1.0	0.21	ug/L			10/04/16 12:35	1
cis-1,2-Dichloroethene	ND	1.0	0.81	ug/L			10/04/16 12:35	1
Methylene Chloride	ND	1.0	0.44	ug/L			10/04/16 12:35	1
Tetrachloroethene	ND	1.0	0.36	ug/L			10/04/16 12:35	1
Toluene	ND	1.0	0.51	ug/L			10/04/16 12:35	1
trans-1,2-Dichloroethene	ND	1.0	0.90	ug/L			10/04/16 12:35	1
Trichloroethene	ND	1.0	0.46	ug/L			10/04/16 12:35	1

Surrogate	%Recovery	Qualifier Li	mits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		7 - 120		10/04/16 12:35	1
4-Bromofluorobenzene (Surr)	102	73	3 - 120		10/04/16 12:35	1
Toluene-d8 (Surr)	87	80	0 - 120		10/04/16 12:35	1
Dibromofluoromethane (Surr)	93	75	5 - 123		10/04/16 12:35	1

Client Sample ID: INFLUENT 100316

Lab Sample ID: 480-106913-3 Date Collected: 10/03/16 07:30 **Matrix: Water**

Date Received: 10/04/16 00:50

Method: 6010C - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.0062	J	0.010	0.0015	mg/L		10/04/16 08:55	10/05/16 16:43	1
Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		10/04/16 09:05	10/04/16 14:27	1

Client Sample ID: EFFLUENT 100316

Lab Sample ID: 480-106913-4 Date Collected: 10/03/16 07:30 **Matrix: Water**

Date Received: 10/04/16 00:50

Method: 8260C - Volatile Organic	Compounds by GC/MS						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND ND	1.0	0.21 ug/L			10/04/16 13:02	1

TestAmerica Buffalo

Client Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-106913-1

Client Sample ID: EFFLUENT 100316

Date Collected: 10/03/16 07:30

Date Received: 10/04/16 00:50

Lab Sample ID: 480-106913-4

Matrix: Water

nic Compounds I	by GC/MS (Continued)						
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ND		1.0	0.81	ug/L			10/04/16 13:02	1
ND		1.0	0.44	ug/L			10/04/16 13:02	1
ND		1.0	0.36	ug/L			10/04/16 13:02	1
ND		1.0	0.51	ug/L			10/04/16 13:02	1
ND		1.0	0.90	ug/L			10/04/16 13:02	1
ND		1.0	0.46	ug/L			10/04/16 13:02	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
89		77 - 120			-		10/04/16 13:02	1
102		73 - 120					10/04/16 13:02	1
86		80 - 120					10/04/16 13:02	1
95		75 - 123					10/04/16 13:02	1
	Result	Result Qualifier ND ND ND ND ND ND ND N	ND 1.0 ND 7.0 ND 7.0 **Recovery Qualifier Limits 77.120 102 73.120 86 80.120	Result Qualifier RL MDL ND 1.0 0.81 ND 1.0 0.44 ND 1.0 0.36 ND 1.0 0.51 ND 1.0 0.90 ND 1.0 0.46 **Recovery** Qualifier Limits 89 77 - 120 102 73 - 120 86 80 - 120	Result Qualifier RL MDL Unit ND 1.0 0.81 ug/L ND 1.0 0.44 ug/L ND 1.0 0.36 ug/L ND 1.0 0.51 ug/L ND 1.0 0.90 ug/L ND 1.0 0.46 ug/L **Recovery Qualifier Limits 89 77 - 120 102 73 - 120 86 80 - 120	Result Qualifier RL MDL Unit D	Result Qualifier RL MDL Unit D Prepared	Result Qualifier RL MDL unit D Prepared Analyzed ND 1.0 0.81 ug/L 10/04/16 13:02 ND 1.0 0.44 ug/L 10/04/16 13:02 ND 1.0 0.36 ug/L 10/04/16 13:02 ND 1.0 0.51 ug/L 10/04/16 13:02 ND 1.0 0.90 ug/L 10/04/16 13:02 ND 1.0 0.46 ug/L 10/04/16 13:02 **Recovery* Qualifier Limits Prepared Analyzed 89 77 - 120 10/04/16 13:02 102 73 - 120 10/04/16 13:02 86 80 - 120 10/04/16 13:02

Client Sample ID: INFLUENT 100316

Date Collected: 10/03/16 07:30

Date Received: 10/04/16 00:50

Lab Sample ID: 480-106913-5

Matrix: Water

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		8.0	1.7	ug/L			10/04/16 13:40	8
cis-1,2-Dichloroethene	ND		8.0	6.5	ug/L			10/04/16 13:40	8
Methylene Chloride	ND		8.0	3.5	ug/L			10/04/16 13:40	8
Tetrachloroethene	ND		8.0	2.9	ug/L			10/04/16 13:40	8
Toluene	ND		8.0	4.1	ug/L			10/04/16 13:40	8
trans-1,2-Dichloroethene	ND		8.0	7.2	ug/L			10/04/16 13:40	8
Trichloroethene	310		8.0	3.7	ug/L			10/04/16 13:40	8

Surrogate	%Recovery	Qualifier L	.imits	Prepare	ed Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		7 - 120		10/04/16 13:40	8
4-Bromofluorobenzene (Surr)	104	7	'3 ₋ 120		10/04/16 13:40	8
Toluene-d8 (Surr)	87	8	80 - 120		10/04/16 13:40	8
Dibromofluoromethane (Surr)	95	7	′5 ₋ 123		10/04/16 13:40	8

Surrogate Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-106913-1

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

Matrix: Water Prep Type: Total/NA

				Percent Su	rrogate Rec
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-106913-2	BETWEEN CARBONS 100316	88	102	87	93
480-106913-4	EFFLUENT 100316	89	102	86	95
480-106913-5	INFLUENT 100316	88	104	87	95
LCS 480-323654/5	Lab Control Sample	90	107	88	94
MB 480-323654/7	Method Blank	88	103	86	93

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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TestAmerica Job ID: 480-106913-1

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 480-323654/7

Matrix: Water

Analysis Batch: 323654

Client Sam	ple ID	: Meth	nod Blank
	Prep	Type:	Total/NA

	IVID IVID							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND ND	1.0	0.21	ug/L			10/04/16 11:49	1
cis-1,2-Dichloroethene	ND	1.0	0.81	ug/L			10/04/16 11:49	1
Methylene Chloride	ND	1.0	0.44	ug/L			10/04/16 11:49	1
Tetrachloroethene	ND	1.0	0.36	ug/L			10/04/16 11:49	1
Toluene	ND	1.0	0.51	ug/L			10/04/16 11:49	1
trans-1,2-Dichloroethene	ND	1.0	0.90	ug/L			10/04/16 11:49	1
Trichloroethene	ND	1.0	0.46	ug/L			10/04/16 11:49	1

MB MB

MD MD

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88	77 - 120		10/04/16 11:49	1
4-Bromofluorobenzene (Surr)	103	73 - 120		10/04/16 11:49	1
Toluene-d8 (Surr)	86	80 - 120		10/04/16 11:49	1
Dibromofluoromethane (Surr)	93	75 - 123		10/04/16 11:49	1

Lab Sample ID: LCS 480-323654/5

Matrix: Water

Analysis Batch: 323654

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	21.4		ug/L		86	76 - 120	
cis-1,2-Dichloroethene	25.0	24.4		ug/L		98	74 - 124	
Methylene Chloride	25.0	24.6		ug/L		98	75 - 124	
Tetrachloroethene	25.0	24.0		ug/L		96	74 - 122	
Toluene	25.0	22.6		ug/L		90	80 - 122	
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	73 _ 127	
Trichloroethene	25.0	23.9		ug/L		95	74 - 123	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		77 - 120
4-Bromofluorobenzene (Surr)	107		73 - 120
Toluene-d8 (Surr)	88		80 - 120
Dibromofluoromethane (Surr)	94		75 - 123

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-323660/1-A

Matrix: Water

Analysis Batch: 324737

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

Prep Batch: 323660

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		10/04/16 08:55	10/05/16 14:38	1

TestAmerica Buffalo

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TestAmerica Job ID: 480-106913-1

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

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-323660/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Analysis Batch: 324344 **Prep Batch: 323660** Spike LCS LCS

babbA Result Qualifier Limits Analyte Unit D %Rec Zinc 80 - 120 0.200 0.207 mg/L 104

Lab Sample ID: LCSD 480-323660/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 324344 **Prep Batch: 323660**

Spike LCSD LCSD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Zinc 0.200 0.207 mg/L 104 80 - 120 20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-323671/1-A Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA Analysis Batch: 323824 **Prep Batch: 323671**

MR MR Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac Mercury ND 0.00020 0.00012 mg/L 10/04/16 09:05 10/04/16 14:22

Lab Sample ID: LCS 480-323671/2-A Client Sample ID: Lab Control Sample

Matrix: Water Prep Type: Total/NA Analysis Batch: 323824 **Prep Batch: 323671**

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits 0.00667 0.00748 112 80 - 120 Mercury mg/L

Lab Sample ID: LCSD 480-323671/22-A Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA Analysis Batch: 323824 **Prep Batch: 323671**

Spike LCSD LCSD %Rec. RPD Added Result Qualifier Limits RPD Limit Analyte Unit %Rec 0.00667 Mercury 0.00720 mg/L 108 80 - 120 20

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

Total Suspended Solids

Analysis Batch: 323740

Lab Sample ID: MB 480-323740/1 Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA Analysis Batch: 323740

MB MB Result Qualifier RLRL Unit Prepared Analyzed Dil Fac

Lab Sample ID: LCS 480-323740/2 **Client Sample ID: Lab Control Sample**

10

1.0 mg/L

Matrix: Water Prep Type: Total/NA

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

ND

Total Suspended Solids 211 212.0 mg/L 101 88 - 110

TestAmerica Buffalo

10/04/16 12:34

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

TestAmerica Job ID: 480-106913-1

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

Lab Sample ID: 480-106913-1 DU Client Sample ID: EFFLUENT 100316 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 323740

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

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-323788/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 323788 мв мв

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total Dissolved Solids ND 10.0 4.0 mg/L 10/04/16 16:48

Lab Sample ID: LCS 480-323788/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 323788

Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit %Rec Limits Total Dissolved Solids 510 508.0 mg/L 100 85 - 115

Lab Sample ID: 480-106913-1 DU Client Sample ID: EFFLUENT 100316 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 323788

DU DU RPD Sample Sample Result Qualifier Limit Result Qualifier Unit **RPD** Total Dissolved Solids 721 754.0 10 mg/L

TestAmerica Buffalo

TestAmerica Job ID: 480-106913-1

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

GC/MS VOA

Analysis Batch: 323654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106913-2	BETWEEN CARBONS 100316	Total/NA	Water	8260C	
480-106913-4	EFFLUENT 100316	Total/NA	Water	8260C	
480-106913-5	INFLUENT 100316	Total/NA	Water	8260C	
MB 480-323654/7	Method Blank	Total/NA	Water	8260C	
LCS 480-323654/5	Lab Control Sample	Total/NA	Water	8260C	

Metals

Prep Batch: 323660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
480-106913-1	EFFLUENT 100316	Total/NA	Water	3005A	_
480-106913-3	INFLUENT 100316	Total/NA	Water	3005A	
MB 480-323660/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-323660/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-323660/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Prep Batch: 323671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106913-1	EFFLUENT 100316	Total/NA	Water	7470A	
480-106913-3	INFLUENT 100316	Total/NA	Water	7470A	
MB 480-323671/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-323671/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 480-323671/22-A	Lab Control Sample Dup	Total/NA	Water	7470A	

Analysis Batch: 323824

_					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106913-1	EFFLUENT 100316	Total/NA	Water	7470A	323671
480-106913-3	INFLUENT 100316	Total/NA	Water	7470A	323671
MB 480-323671/1-A	Method Blank	Total/NA	Water	7470A	323671
LCS 480-323671/2-A	Lab Control Sample	Total/NA	Water	7470A	323671
LCSD 480-323671/22-A	Lab Control Sample Dup	Total/NA	Water	7470A	323671

Analysis Batch: 324344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-323660/2-A	Lab Control Sample	Total/NA	Water	6010C	323660
LCSD 480-323660/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	323660

Analysis Batch: 324737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106913-1	EFFLUENT 100316	Total/NA	Water	6010C	323660
480-106913-3	INFLUENT 100316	Total/NA	Water	6010C	323660
MB 480-323660/1-A	Method Blank	Total/NA	Water	6010C	323660

General Chemistry

Analysis Batch: 323740

ſ	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	480-106913-1	EFFLUENT 100316	Total/NA	Water	SM 2540D	
	MB 480-323740/1	Method Blank	Total/NA	Water	SM 2540D	
	LCS 480-323740/2	Lab Control Sample	Total/NA	Water	SM 2540D	

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TestAmerica Buffalo

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-106913-1

General Chemistry (Continued)

Analysis Batch: 323740 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106913-1 DU	EFFLUENT 100316	Total/NA	Water	SM 2540D	

Analysis Batch: 323788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106913-1	EFFLUENT 100316	Total/NA	Water	SM2540 C	·
MB 480-323788/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-323788/2	Lab Control Sample	Total/NA	Water	SM2540 C	
480-106913-1 DU	EFFLUENT 100316	Total/NA	Water	SM2540 C	

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Client: O'Brien & Gere Inc of North America

Client Sample ID: EFFLUENT 100316

Project/Site: Former Accurate Die Cast

Lab Sample ID: 480-106913-1

Matrix: Water

Date Collected: 10/03/16 07:30 Date Received: 10/04/16 00:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			323660	10/04/16 08:55	MVZ	TAL BUF
Total/NA	Analysis	6010C		1	324737	10/05/16 16:40	TRB	TAL BUF
Total/NA	Prep	7470A			323671	10/04/16 09:05	RMZ	TAL BUF
Total/NA	Analysis	7470A		1	323824	10/04/16 14:25	RMZ	TAL BUF
Total/NA	Analysis	SM 2540D		1	323740	10/04/16 12:34	KMB	TAL BUF
Total/NA	Analysis	SM2540 C		1	323788	10/04/16 16:48	CDC	TAL BUF

Lab Sample ID: 480-106913-2 **Client Sample ID: BETWEEN CARBONS 100316**

Matrix: Water Date Collected: 10/03/16 07:30

Date Received: 10/04/16 00:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			323654	10/04/16 12:35	SMY	TAL BUF

Client Sample ID: INFLUENT 100316 Lab Sample ID: 480-106913-3

Date Collected: 10/03/16 07:30

Date Received: 10/04/16 00:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			323660	10/04/16 08:55	MVZ	TAL BUF
Total/NA	Analysis	6010C		1	324737	10/05/16 16:43	TRB	TAL BUF
Total/NA	Prep	7470A			323671	10/04/16 09:05	RMZ	TAL BUF
Total/NA	Analysis	7470A		1	323824	10/04/16 14:27	RMZ	TAL BUF

Client Sample ID: EFFLUENT 100316 Lab Sample ID: 480-106913-4

Date Collected: 10/03/16 07:30

Date Received: 10/04/16 00:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			323654	10/04/16 13:02	SMY	TAL BUF

Client Sample ID: INFLUENT 100316 Lab Sample ID: 480-106913-5

Date Collected: 10/03/16 07:30

Date Received: 10/04/16 00:50

-	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			323654	10/04/16 13:40	SMY	TAL BUF

Laboratory References:

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

Matrix: Water

Matrix: Water

Matrix: Water

Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-106913-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

TestAmerica Buffalo

Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-106913-1

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

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 = 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

TestAmerica Job ID: 480-106913-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-106913-1	EFFLUENT 100316	Water	10/03/16 07:30	10/04/16 00:50
480-106913-2	BETWEEN CARBONS 100316	Water	10/03/16 07:30	10/04/16 00:50
480-106913-3	INFLUENT 100316	Water	10/03/16 07:30	10/04/16 00:50
480-106913-4	EFFLUENT 100316	Water	10/03/16 07:30	10/04/16 00:50
480-106913-5	INFLUENT 100316	Water	10/03/16 07:30	10/04/16 00:50

Chain of Custody Record

TestAmerica Buffalo

the leader in Envigorative Testing

10 Hazelwood Drive Amherst, NY 14228-2298 Phone (716) 691-2600 Fax (716) 691-7991

Client Information	11/18/11/11	7267	ひなな	Johns	Johnson, Orlette S	0						480-78316-10589.	589.1	
Cirent Contact: Mr. Yuri Veliz	215-729-1300	3-130	o	E-Mail: orlette	E-Mail: orlette.johnson@testamericainc.com)testam	ericainc.	moo				Page: Page 1 of 1		de garquid Magna
Company: O'Brien & Gere Inc of North America							Am	.છ	Redue	Š	ļ	Job #:		
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:									480-106913 COC	00	Preservation Codes	173	
Ohr. East Syracuse	TAT Requested (days):	25			2017.00				 	-		A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
State, Zip: NY, 13221										***************************************		D - Nitric Acid E - NaHSO4		rind ans (and
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO#. 11600011											G - Amchior H - Ascorbic Acid		irate
Email: Yuri.Veliz@obg.com	WO#:				(eŅ				in a second seco					
Project Name: Former Accurate Die Cast	Project #: 48008584				10/66							K-EDIA L-EDA	w - pri 4-5 Z - other (specify)	****
Site:	SSOW#.				X) osi				******			Other:		
Sample Identification	Sample Date	Sample	Sample Type (C=comp, G=crab)	Matrix (w-water, p. s=solid, co-waste/ol, p. s=tr-maste/ol, p. state)	pereilli bleif W.Z.M. mrotref 18 laiot - Cotta	- 6260C_Calcd - 3260C - Volatile	9010C - Zinc	Mercur			yadmini letoT		Special Instructions (Note	
		X	- 5 cm	182	X	-		1 0						
Effluent /003/6	10-3-16	130	U	Water				-						
Between Carbons 1003 / 6		17:30	e.	Water		W					m			
Inffluent 1003/6		17:30	J	Water			-				. O			
EALURAT 100316		17:30	٩	water		3					60			
INFLUNT 100316		7:30		wother		8					<u> </u>			
			0											
		T	3			******								
		?	0	1/2		T	1							
	annek kilika iyang	3		9				<u></u>		I				
Possible Hazard Identification Non-Hazard Plammable Skin Irritant Poison B	on B Unknown		∃ Radiological		Sample	Dispos etum Tc	al (A fe Client	e may be	assesseo Disposal	l if sample: By Lab	s are retain	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month Retum To Client Disposal By Lab Mor	1 month) Months	
Other (specify)	l				Special	nstructi	ons/QC	Special Instructions/QC Requirements:	ents:					
Empty Kit Relinquished by:	<u>a</u>	Date:		<u> </u>	Time:	<	(Met	Method of Shipment.	Ħ			
Reinquishoff of Kernha	Date/Time: 16	1:6/	0)	Company 6	Received	SA DOWN	*	4	X.	Date/Time	ime; pd/	b 3//	Company	
Relinquished by:	Date/Time:	18;	3	Company A	Regg	///qpe/)			3-4-16	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Company Market	
ĺ	Date/Time:		0	ompany	R	seived by:				Date/Time	ime:		Company	
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No					Cook	я Тетрел	ature(s) °(Cooler Temperature(s) °C and Other Remarks	lemarks:			<u>6</u>	5 #/	
				1:	14	1:	12	1	1	8	7	5 6	3	

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America Job Number: 480-106913-1

Login Number: 106913 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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	

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ANALYTICAL REPORT

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica

TestAmerica Laboratories, Inc.

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

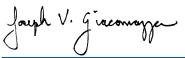
TestAmerica Job ID: 480-107456-1

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. Al Farrell



Authorized for release by: 10/19/2016 3:37:21 PM

Joe Giacomazza, Project Management Assistant II joe.giacomazza@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

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 Project/Site: Former Accurate Die Cast

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-107456-1

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-107456-1

Job ID: 480-107456-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-107456-1

Receipt

The sample was received on 10/12/2016 12:45 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° 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 TestAmerica Job ID: 480-107456-1

Client Sample ID: EFFLUENT 101116

Lab Sample	ID:	480-107456-1
		-

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Total Dissolved Solids	707	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

TestAmerica Job ID: 480-107456-1

Client Sample ID: EFFLUENT 101116

Lab Sample ID: 480-107456-1 Date Collected: 10/11/16 07:15

Matrix: Water

Date Received: 10/12/16 00:45

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	707		10.0	4.0	mg/L			10/13/16 10:32	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			10/17/16 07:22	1

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

TestAmerica Job ID: 480-107456-1

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

Lab Sample ID: MB 480-325936/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 325936

мв мв Result Qualifier RL RL Unit D Analyzed Dil Fac Analyte Prepared 1.0 10/17/16 07:22 **Total Suspended Solids** ND 1.0 mg/L

Lab Sample ID: LCS 480-325936/2 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 325936

LCS LCS Spike %Rec. Added Analyte Result Qualifier Unit %Rec Limits **Total Suspended Solids** 254 255.6 mg/L 101 88 - 110

Lab Sample ID: 480-107456-1 DU Client Sample ID: EFFLUENT 101116 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 325936

DU DU RPD Sample Sample Result Qualifier Result Qualifier Unit **RPD** Limit ND ND Total Suspended Solids mg/L

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-325398/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 325398

MB MB

Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared Total Dissolved Solids ND 10.0 10/13/16 10:32 4.0 ma/L

Lab Sample ID: LCS 480-325398/2 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 325398

Spike LCS LCS %Rec. Added Result Qualifier Analyte Unit %Rec Limits Total Dissolved Solids 524 511.0 mg/L 98 85 - 115

Lab Sample ID: 480-107456-1 DU Client Sample ID: EFFLUENT 101116 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 325398

DU DU RPD Sample Sample RPD Analyte Result Qualifier Result Qualifier Unit Limit **Total Dissolved Solids** 707 713.0 mg/L 10

TestAmerica Buffalo

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-107456-1

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General Chemistry

Analysis Batch: 325398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
480-107456-1	EFFLUENT 101116	Total/NA	Water	SM2540 C
MB 480-325398/1	Method Blank	Total/NA	Water	SM2540 C
LCS 480-325398/2	Lab Control Sample	Total/NA	Water	SM2540 C
480-107456-1 DU	EFFLUENT 101116	Total/NA	Water	SM2540 C

Analysis Batch: 325936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107456-1	EFFLUENT 101116	Total/NA	Water	SM 2540D	
MB 480-325936/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-325936/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-107456-1 DU	EFFLUENT 101116	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 101116

TestAmerica Job ID: 480-107456-1

Lab Sample ID: 480-107456-1

Matrix: Water

Date Collected: 10/11/16 07:15

Date Received: 10/12/16 00:45

l		Batch	Batch		Dilution	Batch	Prepared		
l	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Analysis	SM 2540D		1	325936	10/17/16 07:22	EKB	TAL BUF
	Total/NA	Analysis	SM2540 C		1	325398	10/13/16 10:32	ELR	TAL BUF

Laboratory References:

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

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Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-107456-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-107456-1

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 = 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

TestAmerica Job ID: 480-107456-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-107456-1	EFFLUENT 101116	Water	10/11/16 07:15	10/12/16 00:45

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TestAmerico

TestAmerica Buffalo

10 Hazelwood Drive	Chain of Custody Record	dy Record	, 3	
Amherst, NY 14228-2298 Phone (716) 691-2600 Fax (716) 691-7991			/ /	the Leader in Environemental Testing
Client Information	Sampler.	Lab PM: Johnson, Orlette S		COC No: 480-78336-10586.1
	-	E-Mail: orlette.johnson@testamericainc.com	Pa 480-107456 COC Pa	Page: Page 1 of 1
lnc of North America		Analysis Requested		# qop
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:			e O O
City. East Syracuse	TAT Requested (days):		(m ()	B - NaOH N - None C - Zn Acetate O - AsNaO2
State, Zio: NY, 13221	P4-31-2-1		Д Ш ц	- Nitric Acid P - Na2O4S - NaHSO4 Q - Na2SO3 - MaOH D - Na2SO3
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO#. 11600011		- 0 I	g
	, MO#:	(oV) abi		
Cast	Project #: 48008584	os pai	enlern	
	SSOW#:	ouaden (X		Other:
	Sample (w Type (w Sample (C=comp.	Matrix (Wewate, Wewate, Wewate	al Mumbar	
Sample Identification	G=grab)	797 X B91	101	Special Instructions/Note:
Effluent /0 ///(2	N 12/5/14 11-11-01			
	Met Met			
	111101			
Doceiklo Llarund Idontification		Samula Discosal (A fee may be assessed if samules are refained longer than 1 month)	d if samples are refained l	fonger than 1 month)
Possible hazard identification Non-Hazard Flammable Skin Irritant Poison B	on B Unknown Radiological	Sample Disposar (A fee may be assessed in same Telling of the same sees o	I By Lab	For Months
		Special Instructions/QC Requirements:		
Empty Kit Relinquished by:	Date: /		Method of Shipment:	
Reinquishedow Lannoh.	Date/Time: 10:00 Comp.	Par Received by CHA (0 -(1	-1 C Company, Cu
Rengluh	11.14 19 ins	Red 100	/ Date/Time: 12-16	Corregion Contraction
	Date/Time: Company		Date/1 Ime:	Company
Custody Seals Intact: Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		20 #1

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America Job Number: 480-107456-1

Login Number: 107456 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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 COC is present. 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 sh
background The cooler's custody seal, if present, is intact. The cooler's custody seal, if present, is intact. The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. 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. If 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 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 True True True True True True True Tru
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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 True
True MS/MSDs VOA sample vials do not have headspace or bubble is <6mm (1/4") in N/A diameter. If necessary, staff have been informed of any short hold time or quick TAT True
MS/MSDs VOA sample vials do not have headspace or bubble is <6mm (1/4") in N/A diameter. If necessary, staff have been informed of any short hold time or quick TAT True
diameter. If necessary, staff have been informed of any short hold time or quick TAT True
needs
Multiphasic samples are not present. True
Samples do not require splitting or compositing.
Sampling Company provided. True OBG
Samples received within 48 hours of sampling.
Samples requiring field filtration have been filtered in the field. N/A
Chlorine Residual checked. N/A

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 480-107828-1

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. Al Farrell



Authorized for release by: 10/24/2016 2:09:10 PM

Joe Giacomazza, Project Management Assistant II joe.giacomazza@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

·····LINKS ······

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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 Project/Site: Former Accurate Die Cast

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-107828-1

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	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 TestAmerica Job ID: 480-107828-1

Job ID: 480-107828-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-107828-1

Receipt

The samples were received on 10/18/2016 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° 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

TestAmerica Job ID: 480-107828-1

Client Sample ID: EFFLUENT 101716 Lab Sample ID: 480-107828-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Total Dissolved Solids	712	10.0	4.0 mg/L		SM2540 C	Total/NA

Client Sample ID: EFFLUENT 101716 Lab Sample ID: 480-107828-2

No Detections.

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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 101716

TestAmerica Job ID: 480-107828-1

Lab Sample ID: 480-107828-1

Matrix: Water

Date Collected: 10/17/16 07:15 Date Received: 10/18/16 01:00

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	712		10.0	4.0	mg/L			10/19/16 09:13	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			10/19/16 10:36	1

Client Sample ID: EFFLUENT 101716 Lab Sample ID: 480-107828-2

Date Collected: 10/17/16 07:15 Matrix: Water

Date Received: 10/18/16 01:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/20/16 05:08	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/20/16 05:08	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/20/16 05:08	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/20/16 05:08	1
Toluene	ND		1.0	0.51	ug/L			10/20/16 05:08	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/20/16 05:08	1
Trichloroethene	ND		1.0	0.46	ug/L			10/20/16 05:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120			-		10/20/16 05:08	1
4-Bromofluorobenzene (Surr)	95		73 - 120					10/20/16 05:08	1
Toluene-d8 (Surr)	94		80 - 120					10/20/16 05:08	1
Dibromofluoromethane (Surr)	108		75 ₋ 123					10/20/16 05:08	1

Surrogate Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-107828-1

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

Matrix: Water Prep Type: Total/NA

				Percent Su	rogate Reco
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-107828-2	EFFLUENT 101716	107	95	94	108
LCS 480-326590/4	Lab Control Sample	97	101	95	101
MB 480-326590/6	Method Blank	99	99	93	102
Surrogate Legend					

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

DBFM = Dibromofluoromethane (Surr)

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TestAmerica Job ID: 480-107828-1

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

Lab Sample ID: MB 480-326590/6

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

Matrix: Water

Analysis Batch: 326590

Client Sample ID: Method Blank

Prep Type: Total/NA

	IND IND	5						
Analyte	Result Qu	ualifier RI	. MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			10/19/16 22:59	1
cis-1,2-Dichloroethene	ND	1.0	0.81	ug/L			10/19/16 22:59	1
Methylene Chloride	ND	1.0	0.44	ug/L			10/19/16 22:59	1
Tetrachloroethene	ND	1.0	0.36	ug/L			10/19/16 22:59	1
Toluene	ND	1.0	0.51	ug/L			10/19/16 22:59	1
trans-1,2-Dichloroethene	ND	1.0	0.90	ug/L			10/19/16 22:59	1
Trichloroethene	ND	1.0	0.46	ug/L			10/19/16 22:59	1

MB MB

MD MD

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99	77 - 120		10/19/16 22:59	1
4-Bromofluorobenzene (Surr)	99	73 - 120		10/19/16 22:59	1
Toluene-d8 (Surr)	93	80 - 120		10/19/16 22:59	1
Dibromofluoromethane (Surr)	102	75 - 123		10/19/16 22:59	1

Lab Sample ID: LCS 480-326590/4

Matrix: Water

Analysis Batch: 326590

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	21.3		ug/L		85	76 - 120	
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	74 - 124	
Methylene Chloride	25.0	27.8		ug/L		111	75 - 124	
Tetrachloroethene	25.0	24.7		ug/L		99	74 - 122	
Toluene	25.0	22.9		ug/L		92	80 - 122	
trans-1,2-Dichloroethene	25.0	24.1		ug/L		96	73 - 127	
Trichloroethene	25.0	23.3		ug/L		93	74 - 123	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Toluene-d8 (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	101		75 - 123

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

Lab Sample ID: MB 480-326436/1

Matrix: Water

Analysis Batch: 326436

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

MB MB Result Qualifier Dil Fac RL **RL** Unit Analyte D Prepared Analyzed Total Suspended Solids 1.0 1.0 mg/L 10/19/16 10:36 ND

QC Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-107828-1

Prep Type: Total/NA

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

Lab Sample ID: LCS 480-326436/2

Matrix: Water

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

Analysis Batch: 326436

Spike LCS LCS %Rec. Added Analyte Result Qualifier Limits Unit D %Rec 241 88 - 110 **Total Suspended Solids** 240.8 mg/L 100

Lab Sample ID: 480-107828-1 DU Client Sample ID: EFFLUENT 101716

Matrix: Water

Analysis Batch: 326436

 Sample Analyte
 Sample Result
 Qualifier Qualifier
 Result Result Qualifier
 Unit Qualifier Qualifier
 Unit Qualifier Qualifier
 NC
 RPD
 RPD
 Limit Qualifier
 NC
 10

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-326421/1

Matrix: Water

Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis Batch: 326421

MR MR

AnalyteResult Total Dissolved SolidsResult NDQualifierRLMDL Unit mg/LDPrepared PreparedAnalyzed Prepared No 10/19/16 09:13Dil Fac 10/19/16 09:13

Lab Sample ID: LCS 480-326421/2

Matrix: Water

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 326421

 Analyte
 Added
 Result Possible
 Qualifier Possible
 Unit Possible
 Description
 %Rec.
 Limits

 Total Dissolved Solids
 502
 494.0
 mg/L
 99
 85 - 115

TestAmerica Buffalo

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-107828-1

GC/MS VOA

Analysis Batch: 326590

_ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-107828-2	EFFLUENT 101716	Total/NA	Water	8260C	
MB 480-326590/6	Method Blank	Total/NA	Water	8260C	
_CS 480-326590/4	Lab Control Sample	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 326421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107828-1	EFFLUENT 101716	Total/NA	Water	SM2540 C	
MB 480-326421/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-326421/2	Lab Control Sample	Total/NA	Water	SM2540 C	

Analysis Batch: 326436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107828-1	EFFLUENT 101716	Total/NA	Water	SM 2540D	· ——
MB 480-326436/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-326436/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-107828-1 DU	EFFLUENT 101716	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

TestAmerica Job ID: 480-107828-1

Client Sample ID: EFFLUENT 101716

Date Collected: 10/17/16 07:15 Date Received: 10/18/16 01:00

Lab Sample ID: 480-107828-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	SM 2540D			326436	10/19/16 10:36	KMB	TAL BUF	_
Total/NA	Analysis	SM2540 C		1	326421	10/19/16 09:13	EKB	TAL BUF	

Client Sample ID: EFFLUENT 101716 Lab Sample ID: 480-107828-2

Date Collected: 10/17/16 07:15

Date Received: 10/18/16 01:00

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			326590	10/20/16 05:08	RJF	TAL BUF

Laboratory References:

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

Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-107828-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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Method Summary

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

TestAmerica Job ID: 480-107828-1

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

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

TestAmerica Buffalo

Sample Summary

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

TestAmerica Job ID: 480-107828-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-107828-1	EFFLUENT 101716	Water	10/17/16 07:15	10/18/16 01:00
480-107828-2	EFFLUENT 101716	Water	10/17/16 07:15	10/18/16 01:00

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Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America Job Number: 480-107828-1

Login Number: 107828 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Creator. Williams, Christopher S		
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	

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 480-108298-1

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. Al Farrell

Authorized for release by: 10/31/2016 7:29:49 PM

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@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 Project/Site: Former Accurate Die Cast

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-108298-1

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Detection Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-108298-1

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Client Sample ID: EFFLUENT 102416

Lab	Sample	ID: 400-1	100290-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Total Dissolved Solids	725	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 102416

TestAmerica Job ID: 480-108298-1

Lab Sample ID: 480-108298-1

Matrix: Water

Date Collected: 10/24/16 07:15 Date Received: 10/25/16 02:15

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	725		10.0	4.0	mg/L			10/27/16 09:03	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			10/26/16 08:46	1

Client: O'Brien & Gere Inc of North America

Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-108298-1

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: EFFLUENT 102416

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

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

Lab Sample ID: MB 480-327671/1

Matrix: Water

Analysis Batch: 327671

MB MB

Analyte Result Qualifier RL **RL** Unit D Prepared Analyzed Dil Fac 1.0 10/26/16 08:46 Total Suspended Solids $\overline{\mathsf{ND}}$ 1.0 mg/L

Lab Sample ID: LCS 480-327671/2

Matrix: Water

Analysis Batch: 327671

Spike LCS LCS %Rec. Added Limits Analyte Result Qualifier Unit %Rec **Total Suspended Solids** 249 250.4 mg/L 101 88 - 110

Lab Sample ID: 480-108298-1 DU

Matrix: Water

Analysis Batch: 327671

Sample Sample DU DU **RPD** Result Qualifier RPD Result Qualifier Limit Analyte Unit D **Total Suspended Solids** $\overline{\mathsf{ND}}$ ND mg/L NC 10

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-328028/1

Matrix: Water

Analysis Batch: 328028

MB MB

Result Qualifier **MDL** Unit Prepared Analyzed Total Dissolved Solids ND 10.0 4.0 mg/L 10/27/16 09:03

Lab Sample ID: LCS 480-328028/2

Matrix: Water

Analysis Batch: 328028

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits D Total Dissolved Solids 502 498.0 mg/L 99 85 - 115

TestAmerica Buffalo

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-108298-1

General Chemistry

Analysis Batch: 327671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-108298-1	EFFLUENT 102416	Total/NA	Water	SM 2540D	
MB 480-327671/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-327671/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-108298-1 DU	EFFLUENT 102416	Total/NA	Water	SM 2540D	

Analysis Batch: 328028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-108298-1	EFFLUENT 102416	Total/NA	Water	SM2540 C	
MB 480-328028/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-328028/2	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 TestAmerica Job ID: 480-108298-1

Lab Sample ID: 480-108298-1

Matrix: Water

Client Sample ID: EFFLUENT 102416 Date Collected: 10/24/16 07:15

Date Received: 10/25/16 02:15

l		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Analysis	SM 2540D			327671	10/26/16 08:46	CDC	TAL BUF
	Total/NA	Analysis	SM2540 C		1	328028	10/27/16 09:03	EKB	TAL BUF

Laboratory References:

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

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Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-108298-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-108298-1

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 = 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

TestAmerica Job ID: 480-108298-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-108298-1	EFFLUENT 102416	Water	10/24/16 07:15	10/25/16 02:15

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TestAmerica Buffalo						Totamoric	<u>5</u>
Tu Hazelwood Linve Amherst, NY 14228-2298	Chain of Custody Record	stody Re	cord		4,1100	S S S S S S S S S S S S S S S S S S S	> = = = = = = = = = = = = = = = = = = =
(716) 691-7991							CRASSINAL IFSING
Client Information	Sampler Sewinecky		Lab PM: Johnson, Orlette S	Carrier Tr		COC No: 480-78338-10586.1	
	Phone: 515-729-1300		E-Mail: orlette.johnson@testamericainc.com		200 Rocasos (200	Page. Page 1 of 1	
Company: O'Brien & Gere Inc of North America			Analysi	Analysis Requested		Job #:	
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:					ğ	
Oth: East Syracuse	TAT Requested (days):						N - nexale N - None O - AsNaO2
	representation from the control					D - Nitric Acid P - E - NaHSO4 Q ·	Na2O4S Na2SO3
00(Tel) 315-463-7554(Fax)	PO#. 11600011					<u>.0</u>	S - H2SO4 T - TSP Dodecahydrate
Email: Yuri.Veliz@obg.com	:#OM	N.30	(OV ab)		90		U - Acetone V - MCAA
Cast	Project #. 48008584	9819	ios pa		anlair	L-EDA Z-	w - pri 4-5 Z - other (specify)
Site:	SSOW#:		nebeuq ISD (I)		lop jo	Other:	
	Sample Type Sample (C=comp,	Matrix 60 (w=water, 110 S=solid, Co-wasteloil, 110 S	7(011)/WS/W 40D - Total S - bole O_Coled -		admuN ist		
Sample Identification	Sample Date Time G=grab)	BT=TISSUB, A=Air) ation Code:	2 292 2 292 2 292 2 292		21 X	Special Instructions/Note:	uctions/Note:
Effluent 10 & 4 ()	J 51:4 91-48-01	Water			***		
	 						
		2					
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						,	
Possible Hazard Identification Non-Hazard Flammable Skin Intlant Poison B	on B Unknown Radiological	eg.	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mon	y be assessed if sam Disposal By Lab	imples are retaine	tained longer than 1 mor	n tn) Months
ssted: I, II, III, IV, Other (specify)			Special Instructions/QC Requirements:	rements:			
Empty Kit Relinquished by:	Date: /	Ξ.	Time:	Method of	Method of Shipment:		
My Tangle by Angle of the Manager of	Date/Time; 19:35	Company OBC	Received by	1/415V	Date/Time -24	<u>ال</u> ا - (ک	Chiperit >
211/2116	Date/Time: 19:00	Company	Sales Sales		27.	% 021L 0	Company
4	Date/Time:	Company	Received by:		Date/ Ime:	3	препу
Custody Seals Intact: Custody Seal No.:			Choier Temperature(s) °C and Other Remarks:	ther Remarks:		22	2 #1
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Client: O'Brien & Gere Inc of North America

Job Number: 480-108298-1

Login Number: 108298 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

oroator: Williams, Officiophisi 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	
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.	N/A	
Chlorine Residual checked.	N/A	



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 480-108765-1

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. Al Farrell

Authorized for release by: 11/8/2016 1:03:53 AM

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@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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Receipt Checklists	14

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Definitions/Glossary

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

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-108765-1

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

TestAmerica Buffalo

Page 3 of 14

11/8/2016

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-108765-1

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Job ID: 480-108765-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-108765-1

Receipt

The sample was received on 11/1/2016 1:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7° 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

TestAmerica Job ID: 480-108765-1

Client Sample	ID: EFFL	LUENT	103116
----------------------	----------	-------	--------

Lab Sample ID: 480-108765-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Total Dissolved Solids	671	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 TestAmerica Job ID: 480-108765-1

Client Sample ID: EFFLUENT 103116

Lab Sample ID: 480-108765-1

Date Collected: 10/31/16 07:00 Date Received: 11/01/16 01:30 Matrix: Water

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	671		10.0	4.0	mg/L			11/01/16 17:55	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			11/03/16 10:30	1

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TestAmerica Job ID: 480-108765-1

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 480-329232/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 329232

MB MB Analyte Result Qualifier RL **RL** Unit Analyzed Dil Fac D Prepared 1.0 11/03/16 10:30 Total Suspended Solids $\overline{\mathsf{ND}}$ 1.0 mg/L

Lab Sample ID: LCS 480-329232/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 329232

Spike LCS LCS %Rec. Added Limits Analyte Result Qualifier Unit %Rec **Total Suspended Solids** 265 261.6 mg/L 99 88 - 110

Lab Sample ID: 480-108765-1 DU Client Sample ID: EFFLUENT 103116

Matrix: Water

Analysis Batch: 329232

Sample Sample DU DU **RPD** Result Qualifier RPD Result Qualifier Limit Analyte Unit D **Total Suspended Solids** $\overline{\mathsf{ND}}$ ND mg/L 10

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-329080/1 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Analysis Batch: 329080

MB MB

Result Qualifier **MDL** Unit Prepared Analyzed Total Dissolved Solids ND 10.0 4.0 mg/L 11/01/16 17:55

Lab Sample ID: LCS 480-329080/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 329080

LCS LCS Spike %Rec. Analyte Added Result Qualifier %Rec Limits Unit D Total Dissolved Solids 508 495.0 mg/L 97 85 - 115

Lab Sample ID: 480-108765-1 DU Client Sample ID: EFFLUENT 103116 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 329080

Sample Sample DU DU **RPD** Result Qualifier Result Qualifier D RPD Analyte Unit Limit **Total Dissolved Solids** 671 687.0 mg/L 10

TestAmerica Buffalo

11/8/2016

QC Association Summary

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

General Chemistry

Analysis Batch: 329080

1	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
-	480-108765-1	EFFLUENT 103116	Total/NA	Water	SM2540 C	
ı	MB 480-329080/1	Method Blank	Total/NA	Water	SM2540 C	
	LCS 480-329080/2	Lab Control Sample	Total/NA	Water	SM2540 C	
4	480-108765-1 DU	EFFLUENT 103116	Total/NA	Water	SM2540 C	

Analysis Batch: 329232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-108765-1	EFFLUENT 103116	Total/NA	Water	SM 2540D	
MB 480-329232/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-329232/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-108765-1 DU	EFFLUENT 103116	Total/NA	Water	SM 2540D	

TestAmerica Job ID: 480-108765-1

Lab Chronicle

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

Client Sample ID: EFFLUENT 103116

TestAmerica Job ID: 480-108765-1

Lab Sample ID: 480-108765-1

Matrix: Water

Date Collected: 10/31/16 07:00 Date Received: 11/01/16 01:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D			329232	11/03/16 10:30	EKB	TAL BUF
Total/NA	Analysis	SM2540 C		1	329080	11/01/16 17:55	CDC	TAL BUF

Laboratory References:

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

Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-108765-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-108765-1

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 = 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

TestAmerica Job ID: 480-108765-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-108765-1	EFFLUENT 103116	Water	10/31/16 07:00	11/01/16 01:30

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Chain of Custody Record

TestAmerica Buffalo

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10 Hazelwood Drive Amherst, NY 14228-2298	Chair	Chain of Custody Record	ody Rec	ord ord			3 Harris and	S S S S S S S S S S S S S S S S S S S)
Phone (716) 691-2600 Fax (716) 691-7991			100						
Client Information	2	Cenweke	Lab PM: Johnson, Orlette	Orlette S	Š	- A. (1990)	COC No: 480-78338-10586.1	0586.1	
lact Veliz	Phone: 3/5-729 -	1300	E-Mail: orfette.joh	E-Mail: orlette.johnson@testamericainc.com		ij	Page: Page 1 of 1		
e Inc of North America				Analysis	sis Requ		Job #.		
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:					480-108765 COC	Preservation Codes	Ö	
City. East Syracuse	TAT Requested (days):						B - NaOH C - Zn Acetate	in - rexaire N - None O - AsNaO2	
					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		E - Narric Acid		
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO#. 11600011		(et			G - Amchior H - Ascorbic Acid	ġ	drate
	WO#:			sbi			I - Ice		ALL PROPERTY OF
Cast	Project #. 48008584			lo2 be			A CEDIA	W - pH 4-5 Z - other (specify)	
	SSOW#:			puadsı			of cor		
	Sample	Sample Type (C=comp,	Matrix 60 (w-water, 111 S=solid, 00	M/S/M;m;obi			radmiuk) ki		
Sample Identification	Sample Date Time	G=grab) Presenta	ښ× کښ	79Z Z				Special Instructions/Note	8
Effluent /03//6			Water		7000		cc	The second of th	
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		13							
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	9)	17.10		<i>F</i>	1		110		
			- Constant			/			
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Possible Hazard Identification Non-Hazard	n B Unknown	☐ Radiological	S	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Mor	nay be asses:	assessed if samples are i	retained longer than Archive For	r 1 month) Months	
seted: I, II, III, IV, Other (specify)			S	Special Instructions/QC Requirements:	quirements:				
d by:	Date: /		Time:			Method of Shipment			
whitemple	1 91-15	10,00 6	Company $\mathcal{OB}\mathcal{E}$	Receiring the Union	45.74		1-31-16	Rompany)	
1841.14	16. 1	19100 Con	Company		-	C Date/Time:	1-16 0130	Company	
			Сопрапу	Repelved by:		Date/Time:		Company	
Custody Seals Intact: Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:	d Other Remarks.			* C-1	1

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America Job Number: 480-108765-1

Login Number: 108765 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

oroator: Williams, Officiophisi 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	
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.	N/A	
Chlorine Residual checked.	N/A	

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 480-109558-1

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. Al Farrell



Authorized for release by: 11/28/2016 2:06:44 PM

Joe Giacomazza, Project Management Assistant II joe.giacomazza@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@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 Project/Site: Former Accurate Die Cast

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-109558-1

Glossary

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
п	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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-109558-1

Job ID: 480-109558-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-109558-1

Receipt

The samples were received on $11/12/2016\ 2:00\ AM$; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was $2.4^{\circ}\ C$.

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

TestAmerica Job ID: 480-109558-1

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Client Sample ID: EFFLUENT 111116

Lab Sample ID: 480-109558-1

No Detections.

Client Sample ID: BETWEEN CARBONS 111116

Lab Sample ID: 480-109558-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
cis-1,2-Dichloroethene	1.3	1.0	0.81 ug/L		8260C	Total/NA

Client Sample ID: EFFLUENT 111116 Lab Sample ID: 480-109558-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil) Method	Prep Type
Total Dissolved Solids	671		10.0	4.0	mg/L		1	SM2540 C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

TestAmerica Job ID: 480-109558-1

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

Client Sample ID: EFFLUENT 111116

Lab Sample ID: 480-109558-1 Date Collected: 11/11/16 07:20 Matrix: Water

Date Received: 11/12/16 02:00

Method: 8260C - Volatile Orga Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/22/16 22:17	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/22/16 22:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/22/16 22:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/22/16 22:17	1
Toluene	ND		1.0	0.51	ug/L			11/22/16 22:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/22/16 22:17	1
Trichloroethene	ND		1.0	0.46	ug/L			11/22/16 22:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120			=		11/22/16 22:17	1
4-Bromofluorobenzene (Surr)	97		73 - 120					11/22/16 22:17	1
Toluene-d8 (Surr)	99		80 - 120					11/22/16 22:17	1
Dibromofluoromethane (Surr)	100		75 - 123					11/22/16 22:17	1

Client Sample ID: BETWEEN CARBONS 111116 Lab Sample ID: 480-109558-2

Date Collected: 11/11/16 07:20 **Matrix: Water**

Date Received: 11/12/16 02:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/22/16 22:44	1
cis-1,2-Dichloroethene	1.3		1.0	0.81	ug/L			11/22/16 22:44	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/22/16 22:44	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/22/16 22:44	1
Toluene	ND		1.0	0.51	ug/L			11/22/16 22:44	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/22/16 22:44	1
Trichloroethene	ND		1.0	0.46	ug/L			11/22/16 22:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)	102		77 - 120			-		11/22/16 22:44	

ı	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	102		77 - 120		11/22/16 22:44	1
	4-Bromofluorobenzene (Surr)	98		73 - 120		11/22/16 22:44	1
l	Toluene-d8 (Surr)	98		80 - 120		11/22/16 22:44	1
l	Dibromofluoromethane (Surr)	99		75 - 123		11/22/16 22:44	1

Client Sample ID: EFFLUENT 111116 Lab Sample ID: 480-109558-3

Date Collected: 11/11/16 07:20 Matrix: Water Date Received: 11/12/16 02:00

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	671		10.0	4.0	mg/L			11/17/16 22:45	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			11/16/16 22:45	1

Surrogate Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-109558-1

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

Matrix: Water Prep Type: Total/NA

				Percent Su	rrogate Rec
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-109558-1	EFFLUENT 111116	100	97	99	100
480-109558-1 MS	EFFLUENT 111116	102	100	101	100
480-109558-1 MSD	EFFLUENT 111116	99	99	100	100
480-109558-2	BETWEEN CARBONS 111116	102	98	98	99
LCS 480-333139/4	Lab Control Sample	100	101	100	103
MB 480-333139/6	Method Blank	100	102	101	99
Surrogate Legend					

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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TestAmerica Job ID: 480-109558-1

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 480-333139/6

Matrix: Water

Analysis Batch: 333139

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

	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			11/22/16 21:37	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/22/16 21:37	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/22/16 21:37	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/22/16 21:37	1
Toluene	ND		1.0	0.51	ug/L			11/22/16 21:37	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/22/16 21:37	1
Trichloroethene	ND		1.0	0.46	ug/L			11/22/16 21:37	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120	-		11/22/16 21:37	1
4-Bromofluorobenzene (Surr)	102		73 - 120			11/22/16 21:37	1
Toluene-d8 (Surr)	101		80 - 120			11/22/16 21:37	1
Dibromofluoromethane (Surr)	99		75 - 123			11/22/16 21:37	1

LCS LCS

23.8

25.2

23.8

24.5

24.1

23.9

24.4

Result Qualifier

ug/L

ug/L

ug/L

Spike

Added

25.0

25.0

25.0

25.0

25.0

25.0

25.0

Lab Sample ID: LCS 480-333139/4

Matrix: Water

Analyte

Toluene

Analysis Batch: 333139

1,1,2,2-Tetrachloroethane

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

Methylene Chloride

Tetrachloroethene

Trichloroethene

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

80 - 122

73 - 127

74 - 123

%Rec. Limits Unit %Rec ug/L 95 76 - 120 ug/L 101 74 - 124 75 - 124 ug/L 95 ug/L 98 74 - 122

96

96

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Toluene-d8 (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	103		75 - 123

Lab Sample ID: 480-109558-1 MS

Matrix: Water

Analysis Batch: 333139

Client Sample I	D: EFFLUENT 111116
	Prep Type: Total/NA

Analysis Batch. 000103	0	0	0						0/ D
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1,2,2-Tetrachloroethane	ND		25.0	25.5		ug/L		102	76 - 120
cis-1,2-Dichloroethene	ND		25.0	26.2		ug/L		105	74 - 124
Methylene Chloride	ND		25.0	24.9		ug/L		100	75 - 124
Tetrachloroethene	ND		25.0	27.7		ug/L		111	74 - 122
Toluene	ND		25.0	26.6		ug/L		107	80 - 122
trans-1,2-Dichloroethene	ND		25.0	26.6		ug/L		106	73 - 127
Trichloroethene	ND		25.0	25.9		ug/L		104	74 - 123

TestAmerica Buffalo

Page 8 of 17

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

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

Lab Sample ID: 480-109558-1 MS

Matrix: Water

Analysis Batch: 333139

Client Sample ID: EFFLUENT 111116

Prep Type: Total/NA

MS MS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 102 77 - 120 4-Bromofluorobenzene (Surr) 100 73 - 120 Toluene-d8 (Surr) 101 80 - 120 100 75 - 123 Dibromofluoromethane (Surr)

Lab Sample ID: 480-109558-1 MSD Client Sample ID: EFFLUENT 111116

Matrix: Water Prep Type: Total/NA Analysis Batch: 333139

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1,2,2-Tetrachloroethane	ND		25.0	26.2		ug/L		105	76 - 120	3	15
cis-1,2-Dichloroethene	ND		25.0	26.8		ug/L		107	74 - 124	2	15
Methylene Chloride	ND		25.0	25.2		ug/L		101	75 - 124	1	15
Tetrachloroethene	ND		25.0	27.8		ug/L		111	74 - 122	0	20
Toluene	ND		25.0	27.4		ug/L		110	80 - 122	3	15
trans-1,2-Dichloroethene	ND		25.0	26.9		ug/L		108	73 - 127	1	20
Trichloroethene	ND		25.0	26.1		ug/L		104	74 - 123	0	16

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

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

Lab Sample ID: MB 480-332085/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 332085

	MB	MB							
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			11/16/16 22:45	1

Lab Sample ID: LCS 480-332085/2 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 332085

Analysis Batom 602000								
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Suspended Solids	258	266.0		mg/L		103	88 - 110	

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-332353/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 332353

Analysis Batom 602000	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			11/17/16 22:45	1

TestAmerica Buffalo

Page 9 of 17

QC Sample Results

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

TestAmerica Job ID: 480-109558-1

Lab Sample ID: LCS 480-332353/2

Matrix: Water

Analysis Batch: 332353

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec Total Dissolved Solids 520 530.0 mg/L 102 85 - 115

Lab Sample ID: 480-109558-3 DU Client Sample ID: EFFLUENT 111116

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 332353 Sample Sample DU DU RPD

RPD Limit Analyte Result Qualifier Result Qualifier Unit 0.3 10 Total Dissolved Solids 671 673.0 mg/L

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-109558-1

GC/MS VOA

Analysis Batch: 333139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-109558-1	EFFLUENT 111116	Total/NA	Water	8260C	
480-109558-2	BETWEEN CARBONS 111116	Total/NA	Water	8260C	
MB 480-333139/6	Method Blank	Total/NA	Water	8260C	
LCS 480-333139/4	Lab Control Sample	Total/NA	Water	8260C	
480-109558-1 MS	EFFLUENT 111116	Total/NA	Water	8260C	
480-109558-1 MSD	EFFLUENT 111116	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 332085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-109558-3	EFFLUENT 111116	Total/NA	Water	SM 2540D	
MB 480-332085/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-332085/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 332353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-109558-3	EFFLUENT 111116	Total/NA	Water	SM2540 C	
MB 480-332353/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-332353/2	Lab Control Sample	Total/NA	Water	SM2540 C	
480-109558-3 DU	EFFLUENT 111116	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

TestAmerica Job ID: 480-109558-1

Client Sample ID: EFFLUENT 111116

Date Collected: 11/11/16 07:20 Date Received: 11/12/16 02:00

Lab Sample ID: 480-109558-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			333139	11/22/16 22:17	RJF	TAL BUF

Lab Sample ID: 480-109558-2

Client Sample ID: BETWEEN CARBONS 111116 Date Collected: 11/11/16 07:20

Matrix: Water

Date Received: 11/12/16 02:00

Batch Batch Dilution Batch Prepared Method Factor Prep Type Туре Run Number or Analyzed Analyst Lab RJF TAL BUF Total/NA 8260C 333139 11/22/16 22:44 Analysis

Client Sample ID: EFFLUENT 111116 Lab Sample ID: 480-109558-3

Date Collected: 11/11/16 07:20 **Matrix: Water**

Date Received: 11/12/16 02:00

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab SM 2540D 332085 11/16/16 22:45 CDC Total/NA Analysis TAL BUF SM2540 C Total/NA Analysis 332353 11/17/16 22:45 CDC TAL BUF

Laboratory References:

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

TestAmerica Buffalo

Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-109558-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-109558-1

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

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 = 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

TestAmerica Job ID: 480-109558-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-109558-1	EFFLUENT 111116	Water	11/11/16 07:20	11/12/16 02:00
480-109558-2	BETWEEN CARBONS 111116	Water	11/11/16 07:20	11/12/16 02:00
480-109558-3	EFFLUENT 111116	Water	11/11/16 07:20	11/12/16 02:00

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Amherst, NY 14228-2298 Phone (716) 691-2600 Fax (715) 691-7991 10 Hazelwood Drive

Chain of Custody Record

K.M.

						-	-					
	Sampler:		1		:			Carrier	H		COC No:	
Client Information	MINELLI	10	くのととれて		Johnson, Orlette S					þ	480-78325-10588.1	88.1
Client Contact: Mr. Yuri Veliz	1-518 Phohe	0081-50	300	E-Mail: orlette	E-Mail: orlette.johnson@testamericainc.com	stamericai	nc.com	The source	180	4	Page: Page 1 of 1	
Company: O'Brian & Gara loc of North America						`	Analysis Reduesfer	o i iocto	707-109558 COC	၂၀၁ န	# qor	
	Due Date Reguested:			Ť		}	1200	-			Sal Droconvation Codes	ndoe:
est Washington St. PO BOX 4873				essas (gen							(C) (M Library
	TAT Requested (days)										B-NaOH	N - None
East Syracuse											C - Zn Acetate	O - AsNaO2
State, Zip:											D - Nitric Acid	P - Na204S
NY, 13221											E - NaHSO4	Q - Na2SO3
Phone:	PO#:										F-MeCH	K - Nazszo3
56-6100(Tel) 315-463-7554(Fax)	11600011			April 10	el el	8					H - Ascorbic Acid	5 - FIZSO4 T - TSP Dodecahvdrate
Email:	WO#:					pur					- loe	U - Acetone
/eliz@obg.com					ίσκ	ıodı					J - DI Water	V-MCAA
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Sample identification	Sample Date	Time G	G=grab) _{вт≃т}	BT≃Tissue, A≃Atr	Ť	85	_	_	1			Special Instructions/Note:

S								samples are retained longer than 1 month)	Lab Archive For Months			Date Time 11-16, 0 920 Company	Datestine: 276 000 Congress	
offed 1 1								Sample Disposal (A fee may be assessed if	Return To Client Disposal By	Special Instructions/QC Requirements:	Time:	DS(5) Received by - 14 611 4	Secesive Received Will	
7) 06:1, 91-11-11					1-11-11			[Poison B Unknown		Date:	DaterFinge: 1-16 / 9:20 Con	Date/Time: Date/Time: Only	
11116								Possible Hazard Identification	Non-Hazard Flammable Skin Irritar	Deliverable Requested: I, II, III, IV, Other (specify)	Empty Kit Relinquished by:	Relinquispelly: The King T	Refinquished by	
	C++way 11116 11-11-10 C What 1111	C++wen 111116 11-11-16 11:00 C wollass 1111	C++wen 111116 11-11-11 11:00 C what 1111	111116 1111 11 11 11 11 11 11 11 11 11 1	1111 16 11:00 C WART 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111116 11110 C WARD 1111	1111 16 1110 C WART 1111 16 1110 C WART 1111 16 1111 16 1111 17 11 11 11 11 11 11 11 11 11 11 1	1111 16 11.10 C WARD 1111	Possible Hazard Identification	Possible Hazard Identification Possible Hazard Identification Rediclogical Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo Rediclogical Sample Disposal By Lab Archive For	Possible Hazard Identification Possible Hazard Identification Possible Hazard Identification	Possible Hazard Identification Possible Hazard Identification	Possible Hazard Identification	Possible Hazard Identification Possible Hazard Identification

Effluent

Sample Identification

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Water

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Custody Seal No.:

Custody Seals Intact:

Sooler Temperature(s) C and Other Remarks.

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America Job Number: 480-109558-1

Login Number: 109558 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Creator. Williams, Christopher S		
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	

TestAmerica Buffalo



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 480-109641-1

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. Al Farrell



Authorized for release by: 11/23/2016 11:18:51 AM

Joe Giacomazza, Project Management Assistant II joe.giacomazza@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@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

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-109641-1

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-109641-1

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Job ID: 480-109641-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-109641-1

Receipt

The sample was received on 11/16/2016 1:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

General Chemistry

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

Detection Summary

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

TestAmerica Job ID: 480-109641-1

Client Sample ID: EFFLUENT 111516

Lab Sample ID: 480-109641-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Total Dissolved Solids	723	10.0	4.0 mg/L		SM2540 C	Total/NA

Client Sample Results

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

Client Sample ID: EFFLUENT 111516

TestAmerica Job ID: 480-109641-1

Lab Sample ID: 480-109641-1

Matrix: Water

Date Collected: 11/15/16 07:20 Date Received: 11/16/16 01:00

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	723		10.0	4.0	mg/L			11/21/16 21:36	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			11/17/16 11:41	1

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QC Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-109641-1

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

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

Lab Sample ID: MB 480-332221/1

Matrix: Water

Analysis Batch: 332221

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

MB MB

AnalyteResultQualifierRLRLUnitDPreparedAnalyzedDil FacTotal Suspended SolidsND1.01.0mg/L11/17/16 11:411

Lab Sample ID: LCS 480-332221/2

Matrix: Water

Analysis Batch: 332221

 Spike
 LCS
 LCS
 LCS
 %Rec.

 Analyte
 Added
 Result
 Qualifier
 Unit
 D
 %Rec
 Limits

 Total Suspended Solids
 266
 262.8
 mg/L
 99
 88 - 110

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-332924/1

Matrix: Water

Analysis Batch: 332924

MB MB

AnalyteResult
Total Dissolved SolidsResult
NDQualifierRLMDLUnitDPreparedAnalyzedDil Fac10.04.0mg/L11/21/16 21:361

Lab Sample ID: LCS 480-332924/2

Matrix: Water

Analysis Batch: 332924

 Analyte
 Added Total Dissolved Solids
 Result Spike LCS LCS
 LCS LCS
 MRec. Limits

 520
 500.0
 mg/L
 96
 85 - 115

TestAmerica Buffalo

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-109641-1

General Chemistry

Analysis Batch: 332221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-109641-1	EFFLUENT 111516	Total/NA	Water	SM 2540D	
MB 480-332221/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-332221/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 332924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-109641-1	EFFLUENT 111516	Total/NA	Water	SM2540 C	- <u></u>
MB 480-332924/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-332924/2	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

Client Sample ID: EFFLUENT 111516

TestAmerica Job ID: 480-109641-1

Lab Sample ID: 480-109641-1

Matrix: Water

Matrice Matrice Matrice

Date Collected: 11/15/16 07:20 Date Received: 11/16/16 01:00

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Analysis	SM 2540D		1	332221	11/17/16 11:41	EKB	TAL BUF
l	Total/NA	Analysis	SM2540 C		1	332924	11/21/16 21:36	CDC	TAL BUF

Laboratory References:

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

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Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-109641-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-109641-1

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 = 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

TestAmerica Job ID: 480-109641-1

ab Sample ID Client Sample ID		Matrix	Collected	Received	
480-109641-1	EFFLUENT 111516	Water	11/15/16 07:20	11/16/16 01:00	

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Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America Job Number: 480-109641-1

Login Number: 109641 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Creator. Williams, Christopher S		
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.	N/A	
Chlorine Residual checked.	N/A	



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 480-110005-1

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. Al Farrell



Authorized for release by: 12/5/2016 3:52:42 PM

Joe Giacomazza, Project Management Assistant II joe.giacomazza@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@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 Project/Site: Former Accurate Die Cast

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-110005-1

Qualifiers

GC/MS VOA

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.

TEF

TEQ

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

TestAmerica Buffalo

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-110005-1

Job ID: 480-110005-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-110005-1

Receipt

The samples were received on 11/22/2016 1:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

GC/MS VOA

Method(s) 8260C: The method blank for preparation batch 334136 contained Methylene chloride above the reporting limit (RL). None of the samples associated with this method blank contained the target compound above the RL; therefore, re-extraction and/or re-analysis of samples were not performed. The following sample is impacted: EFFLUENT 112116 (480-110005-2).

No additional analytical or quality issues were noted, other than those described above or 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 112116

TestAmerica Job ID: 480-110005-1

Lab Sample	ID: 480-110005-1
------------	------------------

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	658		10.0	4.0	mg/L	1	_	SM2540 C	Total/NA

Client Sample ID: EFFLUENT 112116 Lab Sample ID: 480-110005-2

Angluto	Result	Qualifier	ы	MDL	Unit	Dil Fac		Method	Bron Tuno
Analyte	Result	Qualifier	- KL		Offic	DII Fat	ט :	wethou	Prep Type
Methylene Chloride	0.88	JB	1.0	0.44	ug/L	•		8260C	Total/NA

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Client Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-110005-1

Lab Sample ID: 480-110005-1

Jample 1D. 400-110003-1

Matrix: Water

Client Sample ID: EFFLUENT 112116
Date Collected: 11/21/16 06:45

Date Received: 11/22/16 01:30

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	658		10.0	4.0	mg/L			11/23/16 00:58	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			11/23/16 01:43	1

Client Sample ID: EFFLUENT 112116 Lab Sample ID: 480-110005-2

Date Collected: 11/21/16 06:45 Matrix: Water

Date Received: 11/22/16 01:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/01/16 02:51	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/01/16 02:51	1
Methylene Chloride	0.88	JB	1.0	0.44	ug/L			12/01/16 02:51	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/01/16 02:51	1
Toluene	ND		1.0	0.51	ug/L			12/01/16 02:51	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/01/16 02:51	1
Trichloroethene	ND		1.0	0.46	ug/L			12/01/16 02:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120			-		12/01/16 02:51	1
4-Bromofluorobenzene (Surr)	98		73 - 120					12/01/16 02:51	1
Toluene-d8 (Surr)	97		80 - 120					12/01/16 02:51	1
Dibromofluoromethane (Surr)	104		75 - 123					12/01/16 02:51	1

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Surrogate Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-110005-1

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

Matrix: Water Prep Type: Total/NA

_				Percent Su	rrogate Reco
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-110005-2	EFFLUENT 112116	100	98	97	104
LCS 480-334136/4	Lab Control Sample	101	102	100	109
MB 480-334136/7	Method Blank	100	99	97	100
Surrogate Legend					
12DCE = 1,2-Dichloroe	thane-d4 (Surr)				-

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

DBFM = Dibromofluoromethane (Surr)

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TestAmerica Job ID: 480-110005-1

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 480-334136/7

Matrix: Water

Analysis Batch: 334136

Client S	ample ID	: Meth	od Blank
	Prep	Type:	Total/NA

	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			12/01/16 00:28	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/01/16 00:28	1
Methylene Chloride	1.02		1.0	0.44	ug/L			12/01/16 00:28	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/01/16 00:28	1
Toluene	ND		1.0	0.51	ug/L			12/01/16 00:28	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/01/16 00:28	1
Trichloroethene	ND		1.0	0.46	ug/L			12/01/16 00:28	1

MB MB

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100	77 - 120	-	12/01/16 00:28	1
4-Bromofluorobenzene (Surr)	99	73 - 120		12/01/16 00:28	1
Toluene-d8 (Surr)	97	80 - 120		12/01/16 00:28	1
Dibromofluoromethane (Surr)	100	75 - 123		12/01/16 00:28	1

Lab Sample ID: LCS 480-334136/4

Matrix: Water

Analysis Batch: 334136

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

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec 1,1,2,2-Tetrachloroethane 25.0 24.2 ug/L 97 76 - 120 cis-1,2-Dichloroethene 25.0 25.5 ug/L 102 74 - 124 Methylene Chloride 25.0 25.0 ug/L 100 75 - 124 Tetrachloroethene 25.0 24.5 98 74 - 122 ug/L Toluene 25.0 24.4 98 80 - 122 ug/L trans-1,2-Dichloroethene 25.0 24.2 73 - 127 ug/L Trichloroethene 25.0 25.7 74 - 123 ug/L 103

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Toluene-d8 (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	109		75 - 123

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

Lab Sample ID: MB 480-333186/1

Matrix: Water

Analysis Batch: 333186

MB	MB

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			11/23/16 01:43	1

TestAmerica Buffalo

Client Sample ID: Method Blank

Prep Type: Total/NA

TestAmerica Job ID: 480-110005-1

Client: O'Brien & Gere Inc of North America

Project/Site: Former Accurate Die Cast

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

Lab Sample ID: LCS 480-333186/2 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 333186

Spike LCS LCS %Rec. Added Analyte Result Qualifier Limits Unit D %Rec 250 88 - 110 **Total Suspended Solids** 248.4 mg/L 100

Lab Sample ID: 480-110005-1 DU Client Sample ID: EFFLUENT 112116

Matrix: Water

Analysis Batch: 333186

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

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-333184/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 333184

MR MR Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Total Dissolved Solids 10.0 11/23/16 00:58 ND 4.0 mg/L

Lab Sample ID: LCS 480-333184/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 333184

LCS LCS Spike %Rec. Added Result Qualifier Unit D %Rec Limits Total Dissolved Solids 520 525.0 101 85 - 115 mg/L

Lab Sample ID: 480-110005-1 DU Client Sample ID: EFFLUENT 112116 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 333184

Sample Sample DU DU RPD Result Qualifier Result Qualifier RPD Analyte Limit Unit Total Dissolved Solids 658 643.0 mg/L 10

TestAmerica Buffalo

Prep Type: Total/NA

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-110005-1

GC/MS VOA

Analysis Batch: 334136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110005-2	EFFLUENT 112116	Total/NA	Water	8260C	
MB 480-334136/7	Method Blank	Total/NA	Water	8260C	
LCS 480-334136/4	Lab Control Sample	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 333184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110005-1	EFFLUENT 112116	Total/NA	Water	SM2540 C	
MB 480-333184/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-333184/2	Lab Control Sample	Total/NA	Water	SM2540 C	
480-110005-1 DU	EFFLUENT 112116	Total/NA	Water	SM2540 C	

Analysis Batch: 333186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110005-1	EFFLUENT 112116	Total/NA	Water	SM 2540D	
MB 480-333186/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-333186/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-110005-1 DU	EFFLUENT 112116	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 112116

TestAmerica Job ID: 480-110005-1

Lab Sample ID: 480-110005-1

Matrix: Water

Date Collected: 11/21/16 06:45 Date Received: 11/22/16 01:30

Batch Dilution Batch Batch Prepared Prep Type Method Type Run Factor Number or Analyzed Analyst Lab Total/NA Analysis SM 2540D 333186 11/23/16 01:43 KMB TAL BUF SM2540 C 333184 TAL BUF Total/NA Analysis 1 11/23/16 00:58 KMB

Client Sample ID: EFFLUENT 112116 Lab Sample ID: 480-110005-2

Date Collected: 11/21/16 06:45 Matrix: Water

Date Received: 11/22/16 01:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			334136	12/01/16 02:51	NEA	TAL BUF

Laboratory References:

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

Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-110005-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-110005-1

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

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

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Sample Summary

Matrix

Water

Water

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

Client Sample ID

EFFLUENT 112116

EFFLUENT 112116

Lab Sample ID

480-110005-1

480-110005-2

TestAmerica Job ID: 480-110005-1

11/21/16 06:45 11/22/16 01:30

Collected	Received
11/21/16 06:45	11/22/16 01:30

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Chain of Custody Record

TestAmerica Buffalo

10 Hazelwood Drive

TestAmerico

COC No: Lab PM: Sampler Amherst, NY 14228-2298 Phone (716) 691-2600 Fax (716) 691-7991

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Client Contact: Mr. Yuri Veliz	Phone:	129-13	.00€	E-Mail: orlette	E-Mail: orlette.johnson@testamericainc.com	testamerí	cainc.co	Ε	·		31		Page; Page 1 of 1	
e Inc of North America							Analysis	. <u>დ</u>	Reque 4	80-1100	480-110005 COC			
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:	;ç		2.26 7551,2						h			Preservation Codes	odes:
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State, Zp: NY, 13221										.,			D - Nitric Acid E - NaHSO4 E - MeOH	P - Na204S Q - Na2SO3 R - Na2S2O3
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO#: 11600011				(0								G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydraf
Emait: Yuri.Veliz@obg.com	WO#:				+ (on		·					- 1		U - Acetone V - MCAA
Project Name: Former Accurate Die Cast	Project #; 48008584			and others	Jo.se							enletr	N-EDIA L-EDA	X - other (specify)
Site:	SSOW#:			70 70 70 70	A) as							los fo	Other:	
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Sample Identification	Sample Date	Time		全 國	797 1981	33						IOT X		Special Instructions/Note:
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ŀ		1	in control		Special	Special Instructions/QC Requirements:	IS/QC R	equireme	nts:	and Co				
Empty Kit Relinquished by:		Date:			Time:				¥.	Method of Shipment	hipment			

Effluer Page 15 of 16

12/5/2016

elinquished by:

elinquished by

Custody Seal No.:

Custody Seals Intact: △ Yes △ No

Date/Time. /1-22-16

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Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America Job Number: 480-110005-1

Login Number: 110005 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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	

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 480-110150-1

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. Al Farrell



Authorized for release by: 12/2/2016 11:43:51 AM

Joe Giacomazza, Project Management Assistant II joe.giacomazza@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

·····LINKS ·······

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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 Quotient (Dioxin)

TestAmerica Job ID: 480-110150-1

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-110150-1

Job ID: 480-110150-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-110150-1

Receipt

The sample was received on 11/29/2016 1:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1° 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 TestAmerica Job ID: 480-110150-1

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Client Sample ID: EFFLUENT 112816

Lab Sample ID: 480-110150-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Total Dissolved Solids	678	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 TestAmerica Job ID: 480-110150-1

Lab Sample ID: 480-110150-1

Matrix: Water

Client Sample ID: EFFLUENT 112816 Date Collected: 11/28/16 06:45

Date Received: 11/29/16 01:30

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	678		10.0	4.0	mg/L			11/29/16 09:26	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			11/29/16 19:48	1

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TestAmerica Job ID: 480-110150-1

Client Sample ID: Method Blank

Client Sample ID: EFFLUENT 112816

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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 480-333933/1 **Matrix: Water**

Analysis Batch: 333933

мв мв

Result Qualifier RL RL Unit Analyte D Analyzed Dil Fac Prepared 1.0 mg/L 1.0 11/29/16 19:48 **Total Suspended Solids** ND

Lab Sample ID: LCS 480-333933/2

Matrix: Water

Analysis Batch: 333933

LCS LCS %Rec. Spike Added Analyte Result Qualifier Unit %Rec Limits **Total Suspended Solids** 226 225.2 mg/L 100 88 - 110

Lab Sample ID: 480-110150-1 DU

Matrix: Water

Analysis Batch: 333933

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

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-333819/1

Matrix: Water

Analysis Batch: 333819

MB MB

Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared Total Dissolved Solids ND 10.0 11/29/16 09:26 4.0 mg/L

Lab Sample ID: LCS 480-333819/2

Matrix: Water

Analysis Batch: 333819

Spike LCS LCS %Rec. Added Result Qualifier Analyte Limits Unit %Rec Total Dissolved Solids 530 533.0 mg/L 101 85 - 115

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

TestAmerica Buffalo

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-110150-1

General Chemistry

Analysis Batch: 333819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110150-1	EFFLUENT 112816	Total/NA	Water	SM2540 C	
MB 480-333819/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-333819/2	Lab Control Sample	Total/NA	Water	SM2540 C	

Analysis Batch: 333933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110150-1	EFFLUENT 112816	Total/NA	Water	SM 2540D	
MB 480-333933/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-333933/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-110150-1 DU	EFFLUENT 112816	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

TestAmerica Job ID: 480-110150-1

Client Sample ID: EFFLUENT 112816

Lab Sample ID: 480-110150-1 Date Collected: 11/28/16 06:45

Matrix: Water

Date Received: 11/29/16 01:30

ı		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Analysis	SM 2540D		1	333933	11/29/16 19:48	CDC	TAL BUF
	Total/NA	Analysis	SM2540 C		1	333819	11/29/16 09:26	EKB	TAL BUF

Laboratory References:

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

Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-110150-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-110150-1

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 = 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

TestAmerica Job ID: 480-110150-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-110150-1	EFFLUENT 112816	Water	11/28/16 06:45	11/29/16 01:30

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Cooler Temperature(s) °C and Other Remarks:

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Chain of Custody Record

TestAmerica Buffalo

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10 Hazelwood Drive	ಕ	Chain of Custody Record	ıstody l	Secor	Nagari (i					· 18	3	S S	- 5 8
(716) 691-7991			:						•	† *	a leader in i	the eeader is princed desired. Pesting	병
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	Phone: 3/5, 7	12		lail: ette.johnsor	E-Mail: orfette.johnson@testamericainc.com	cainc.com				Page.	Page: Page 1 of 1		T
Company: O'Brien & Gere Inc of North America						Analysis	s Reques		3	gor	Job#:		T
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:								480-110150 COC	Pre	Preservation Codes	des:	
City: East Syracuse	TAT Requested (days):							1-7		, W ()	A - HOL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2	
State, Zip: NY, 13221						August 1990				ப்ப	- Nitric Acid		
00(Tel) 315-463-7554(Fax)	PO#: 11600011			(C	si					ιοi	F - MeOH G - Amchlor H - Ascorbic Acid	R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate	<u> </u>
Email: Yuri.Veliz@obg.com	WO#			(on						3	1 - loe J - DI Water		***************************************
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Non-Hazard Hammable Skin Imrant Folso Deliverable Requested: I, III, IV, Other (specify)	son B Onknown	Nauloigical	ğ	Speck	Instruction	Special Instructions/QC Requirements:	irements:	Disposal by Lab		Alcaive ro	ō	MOTHIS	1
Emoty Kit Relinquished by:	Date	, .6		Time:	،			Method of Shipment	nipment.				T
	Date/Time:	12.0	Company	-\ 	Received by:		1		Date/Time:	-		Corpeany	T

Custody Seal No.:

ustody Seals Intact:

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America Job Number: 480-110150-1

Login Number: 110150 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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 campered 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 ITs)	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	
here 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 iameter.	N/A	
necessary, staff have been informed of any short hold time or quick TAT eeds	True	
fultiphasic samples are not present.	True	
amples 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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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 480-110496-1

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. Al Farrell



Authorized for release by: 12/13/2016 10:21:13 AM

Joe Giacomazza, Project Management Assistant II joe.giacomazza@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

·····LINKS ······

Review your project results through

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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 Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-110496-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
-----------	-----------------------

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

Metals

Qualifier	Qualifier Description

Relative error ratio

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

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

Glossary

RER

RPD TEF

TEQ

RL

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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

TestAmerica Buffalo

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-110496-1

Job ID: 480-110496-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-110496-1

Receipt

The samples were received on 12/6/2016 2:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.9° C.

GC/MS VOA

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: INFLUENT 120516 (480-110496-4). 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

Client Sample ID: EFFLUENT 120516

TestAmerica Job ID: 480-110496-1

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Lab Sample ID: 480-110496-1

Lab Sample ID: 480-110496-2

Lab Sample ID: 480-110496-3

Lab Sample ID: 480-110496-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Typ	е
Zinc	0.0047	J	0.010	0.0015	mg/L	1	_	6010C	Total/NA	
Total Dissolved Solids	702		10.0	4.0	mg/L	1		SM2540 C	Total/NA	

-

Client Sample ID: BETWEEN CARBONS 120516

_							
Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type	
cis-1,2-Dichloroethene	3.0	1.0	0.81 ug/L		8260C	Total/NA	
Trichloroethene	0.96 J	1.0	0.46 ug/L	1	8260C	Total/NA	

7

Client Sample ID: INFLUENT 120516

ì	_						
	Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
	Zinc	0.0040 J	0.010	0.0015 mg/L		6010C	Total/NA

9

Client Sample ID: INFLUENT 120516

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Trichloroethene	340	8.0	3.7 ug/L	8 8260C	Total/NA

12

Client Sample ID: EFFLUENT 120516

Lab Sample ID: 480-110496-5

No Detections.

TestAmerica Job ID: 480-110496-1

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

Client Sample ID: EFFLUENT 120516

Lab Sample ID: 480-110496-1

Matrix: Water

Date Collected: 12/05/16 07:30 Date Received: 12/06/16 02:00

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.0047	J	0.010	0.0015	mg/L		12/06/16 08:55	12/06/16 20:57	1
Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/06/16 08:25	12/06/16 13:19	1
General Chemistry									
Analyte	Result	Qualifier	RI	MDI	Unit	D	Prenared	Analyzed	Dil Fac

10.0

RL

4.0

4.0 mg/L

RL Unit

4.0 mg/L

D

Prepared

Client Sample ID: BETWEEN CARBONS 120516

702

ND

Result Qualifier

Lab Sample ID: 480-110496-2

12/06/16 17:46

Analyzed

12/07/16 16:05

Date Collected: 12/05/16 07:30 Matrix: Water

Date Received: 12/06/16 02:00

Total Dissolved Solids

Total Suspended Solids

Analyte

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/06/16 17:02	1
cis-1,2-Dichloroethene	3.0		1.0	0.81	ug/L			12/06/16 17:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/06/16 17:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/06/16 17:02	1
Toluene	ND		1.0	0.51	ug/L			12/06/16 17:02	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/06/16 17:02	1
Trichloroethene	0.96	J	1.0	0.46	ug/L			12/06/16 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		77 - 120		12/06/16 17:02	1
4-Bromofluorobenzene (Surr)	95		73 - 120		12/06/16 17:02	1
Toluene-d8 (Surr)	85		80 - 120		12/06/16 17:02	1
Dibromofluoromethane (Surr)	93		75 - 123		12/06/16 17:02	1

Client Sample ID: INFLUENT 120516

Lab Sample ID: 480-110496-3

Date Collected: 12/05/16 07:30 **Matrix: Water**

Date Received: 12/06/16 02:00

Date Received: 12/06/16 02:00

Method: 6010C - Metals (ICP) Analyte Zinc	Result 0.0040	Qualifier J	RL 0.010	MDL 0.0015		<u>D</u>	Prepared 12/06/16 08:55	Analyzed 12/06/16 21:00	Dil Fac
Method: 7470A - Mercury (CVAA)	Popult	Qualifier	RL	MDL	Unit	Б	Branarad	Analyzad	Dil Fac
Analyte Mercury	ND	Qualifier	0.00020			— –	Prepared 12/06/16 08:25	Analyzed	DII Fac

Client Sample ID: INFLUENT 120516

Lab Sample ID: 480-110496-4

Date Collected: 12/05/16 07:30 **Matrix: Water**

Method: 8260C - Volatile Organic Compounds by GC/MS								
Analyte	Result Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND ND	8.0	1.7 u	ıg/L			12/06/16 17:29	8

TestAmerica Buffalo

Page 6 of 18

12/13/2016

Dil Fac

Client Sample Results

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

TestAmerica Job ID: 480-110496-1

Client Sample ID: INFLUENT 120516

Date Collected: 12/05/16 07:30 Date Received: 12/06/16 02:00 Lab Sample ID: 480-110496-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		8.0	6.5	ug/L			12/06/16 17:29	8
Methylene Chloride	ND		8.0	3.5	ug/L			12/06/16 17:29	8
Tetrachloroethene	ND		8.0	2.9	ug/L			12/06/16 17:29	8
Toluene	ND		8.0	4.1	ug/L			12/06/16 17:29	8
trans-1,2-Dichloroethene	ND		8.0	7.2	ug/L			12/06/16 17:29	8
Trichloroethene	340		8.0	3.7	ug/L			12/06/16 17:29	8
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		77 - 120			-		12/06/16 17:29	8
4-Bromofluorobenzene (Surr)	96		73 - 120					12/06/16 17:29	8
Toluene-d8 (Surr)	91		80 - 120					12/06/16 17:29	8
Dibromofluoromethane (Surr)	92		75 - 123					12/06/16 17:29	8

Client Sample ID: EFFLUENT 120516

Date Collected: 12/05/16 07:30

Date Received: 12/06/16 02:00

Lab Sample ID:	480-110496-5
	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			12/06/16 17:56	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/06/16 17:56	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/06/16 17:56	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/06/16 17:56	1
Toluene	ND		1.0	0.51	ug/L			12/06/16 17:56	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/06/16 17:56	1
Trichloroethene	ND		1.0	0.46	ug/L			12/06/16 17:56	1

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93	77 - 120		12/06/16 17:56	1
4-Bromofluorobenzene (Surr)	98	73 - 120		12/06/16 17:56	1
Toluene-d8 (Surr)	87	80 - 120		12/06/16 17:56	1
Dibromofluoromethane (Surr)	94	75 - 123		12/06/16 17:56	1

Surrogate Summary

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

TestAmerica Job ID: 480-110496-1

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

Matrix: Water Prep Type: Total/NA

		Percent Surrogate R			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-110496-2	BETWEEN CARBONS 120516	91	95	85	93
480-110496-4	INFLUENT 120516	93	96	91	92
480-110496-5	EFFLUENT 120516	93	98	87	94
LCS 480-334907/5	Lab Control Sample	91	99	90	96
MB 480-334907/7	Method Blank	90	99	87	92

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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TestAmerica Job ID: 480-110496-1

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 480-334907/7

Matrix: Water

Analysis Batch: 334907

Client Sample ID: Method Blank

Prep Type: Total/NA

мв мв Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Analyte 1,1,2,2-Tetrachloroethane ND 1.0 0.21 ug/L 12/06/16 12:25 cis-1,2-Dichloroethene ND 1.0 0.81 ug/L 12/06/16 12:25 Methylene Chloride ND 1.0 0.44 ug/L 12/06/16 12:25 Tetrachloroethene ND 1.0 0.36 ug/L 12/06/16 12:25 Toluene ND 1.0 0.51 ug/L 12/06/16 12:25 trans-1,2-Dichloroethene ND 1.0 0.90 ug/L 12/06/16 12:25 Trichloroethene ND 1.0 0.46 ug/L 12/06/16 12:25

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90	77 - 120		12/06/16 12:25	1
4-Bromofluorobenzene (Surr)	99	73 - 120		12/06/16 12:25	1
Toluene-d8 (Surr)	87	80 - 120		12/06/16 12:25	1
Dibromofluoromethane (Surr)	92	75 - 123		12/06/16 12:25	1

Lab Sample ID: LCS 480-334907/5

Matrix: Water

Analysis Batch: 334907

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

Spike LCS LCS %Rec. Result Qualifier Analyte Added Unit D %Rec Limits 1,1,2,2-Tetrachloroethane 25.0 22.1 ug/L 88 76 - 120 cis-1,2-Dichloroethene 25.0 22.2 ug/L 89 74 - 124 Methylene Chloride 25.0 21.2 ug/L 85 75 - 124 25.0 19.5 78 74 - 122 Tetrachloroethene ug/L Toluene 25.0 21.2 85 80 - 122 ug/L trans-1,2-Dichloroethene 25.0 20.3 81 73 - 127 ug/L 25.0 20.2 74 - 123 Trichloroethene ug/L 81

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91	-	77 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120
Toluene-d8 (Surr)	90		80 - 120
Dibromofluoromethane (Surr)	96		75 - 123

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-334855/1-A

Matrix: Water

Analysis Batch: 335085

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

Prep Batch: 334855

MB MB Result Qualifier RL MDL Unit Analyzed Dil Fac Analyte Prepared 0.010 Zinc 12/06/16 08:55 12/06/16 20:12 ND 0.0015 mg/L

TestAmerica Buffalo

TestAmerica Job ID: 480-110496-1

Prep Batch: 334862

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

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-334855/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Analysis Batch: 335085 **Prep Batch: 334855** Spike LCS LCS

babbA Result Qualifier Limits Analyte Unit D %Rec Zinc 0.200 0.207 mg/L 104 80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-334862/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water Analysis Batch: 334979

мв мв Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac

0.00020 0.00012 mg/L 12/06/16 08:25 12/06/16 12:36 Mercury ND

Lab Sample ID: LCS 480-334862/2-A Client Sample ID: Lab Control Sample

Matrix: Water Prep Type: Total/NA Analysis Batch: 334979 **Prep Batch: 334862**

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Mercury 0.00667 0.00702 mg/L 105 80 - 120

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

Lab Sample ID: MB 480-335254/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 335254

мв мв

Analyte Result Qualifier RL **RL** Unit D Dil Fac Prepared Analyzed 1.0 Total Suspended Solids 1.0 mg/L 12/07/16 16:05 ND

Lab Sample ID: LCS 480-335254/2 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 335254

Total Dissolved Solids

Spike LCS LCS %Rec.

Added Analyte Result Qualifier I imits Unit %Rec 239 Total Suspended Solids 237.6 mg/L 99 88 - 110

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-335024/1 Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA Analysis Batch: 335024

ND

мв мв Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac

10.0

4.0 mg/L

TestAmerica Buffalo

12/06/16 17:46

QC Sample Results

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-110496-1

Method: SM2540 C - Total Dissolved Solids (Continued)

Lab Sample ID: LCS 480-335024/2

Matrix: Water

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 335024

Spike LCS LCS %Rec. Added Result Qualifier Analyte %Rec Limits Unit D Total Dissolved Solids 530 98 85 - 115 521.0 mg/L

Lab Sample ID: 480-110496-1 DU Client Sample ID: EFFLUENT 120516

Matrix: Water Prep Type: Total/NA

Analysis Batch: 335024

 Analyte
 Result Total Dissolved Solids
 702
 Result Reput Result Processing
 Qualifier Result Res

QC Association Summary

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

TestAmerica Job ID: 480-110496-1

GC/MS VOA

Analysis Batch: 334907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110496-2	BETWEEN CARBONS 120516	Total/NA	Water	8260C	
480-110496-4	INFLUENT 120516	Total/NA	Water	8260C	
480-110496-5	EFFLUENT 120516	Total/NA	Water	8260C	
MB 480-334907/7	Method Blank	Total/NA	Water	8260C	
LCS 480-334907/5	Lab Control Sample	Total/NA	Water	8260C	

Metals

Prep Batch: 334855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch	1
480-110496-1	EFFLUENT 120516	Total/NA	Water	3005A	
480-110496-3	INFLUENT 120516	Total/NA	Water	3005A	
MB 480-334855/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-334855/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 334862

Lab Saı	mple ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110	0496-1	EFFLUENT 120516	Total/NA	Water	7470A	
480-110	0496-3	INFLUENT 120516	Total/NA	Water	7470A	
MB 480)-334862/1-A	Method Blank	Total/NA	Water	7470A	
LCS 48	0-334862/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 334979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110496-1	EFFLUENT 120516	Total/NA	Water	7470A	334862
480-110496-3	INFLUENT 120516	Total/NA	Water	7470A	334862
MB 480-334862/1-A	Method Blank	Total/NA	Water	7470A	334862
LCS 480-334862/2-A	Lab Control Sample	Total/NA	Water	7470A	334862

Analysis Batch: 335085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110496-1	EFFLUENT 120516	Total/NA	Water	6010C	334855
480-110496-3	INFLUENT 120516	Total/NA	Water	6010C	334855
MB 480-334855/1-A	Method Blank	Total/NA	Water	6010C	334855
LCS 480-334855/2-A	Lab Control Sample	Total/NA	Water	6010C	334855

General Chemistry

Analysis Batch: 335024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110496-1	EFFLUENT 120516	Total/NA	Water	SM2540 C	
MB 480-335024/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-335024/2	Lab Control Sample	Total/NA	Water	SM2540 C	
480-110496-1 DU	EFFLUENT 120516	Total/NA	Water	SM2540 C	

Analysis Batch: 335254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110496-1	EFFLUENT 120516	Total/NA	Water	SM 2540D	
MB 480-335254/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-335254/2	Lab Control Sample	Total/NA	Water	SM 2540D	

TestAmerica Buffalo

Page 12 of 18

12/13/2016

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

Client Sample ID: EFFLUENT 120516

Lab Sample ID: 480-110496-1

Matrix: Water

Date Collected: 12/05/16 07:30 Date Received: 12/06/16 02:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			334855	12/06/16 08:55	MVZ	TAL BUF
Total/NA	Analysis	6010C		1	335085	12/06/16 20:57	LMH	TAL BUF
Total/NA	Prep	7470A			334862	12/06/16 08:25	RMZ	TAL BUF
Total/NA	Analysis	7470A		1	334979	12/06/16 13:19	RMZ	TAL BUF
Total/NA	Analysis	SM 2540D		1	335254	12/07/16 16:05	CDC	TAL BUF
Total/NA	Analysis	SM2540 C		1	335024	12/06/16 17:46	CDC	TAL BUF

Client Sample ID: BETWEEN CARBONS 120516

Lab Sample ID: 480-110496-2

Matrix: Water

Date Collected: 12/05/16 07:30 Date Received: 12/06/16 02:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334907	12/06/16 17:02	SMY	TAL BUF

Client Sample ID: INFLUENT 120516

Lab Sample ID: 480-110496-3

Matrix: Water

Date Collected: 12/05/16 07:30 Date Received: 12/06/16 02:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			334855	12/06/16 08:55	MVZ	TAL BUF
Total/NA	Analysis	6010C		1	335085	12/06/16 21:00	LMH	TAL BUF
Total/NA	Prep	7470A			334862	12/06/16 08:25	RMZ	TAL BUF
Total/NA	Analysis	7470A		1	334979	12/06/16 13:21	RMZ	TAL BUF

Client Sample ID: INFLUENT 120516

Lab Sample ID: 480-110496-4

Matrix: Water

Date Collected: 12/05/16 07:30 Date Received: 12/06/16 02:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		8	334907	12/06/16 17:29	SMY	TAL BUF

Client Sample ID: EFFLUENT 120516

Lab Sample ID: 480-110496-5

Matrix: Water

Date Collected: 12/05/16 07:30 Date Received: 12/06/16 02:00

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8260C			334907	12/06/16 17:56	SMY	TAL BUF	-

Laboratory References:

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

TestAmerica Buffalo

Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-110496-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-110496-1

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

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 = 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

TestAmerica Job ID: 480-110496-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-110496-1	EFFLUENT 120516	Water	12/05/16 07:30	12/06/16 02:00
480-110496-2	BETWEEN CARBONS 120516	Water	12/05/16 07:30	12/06/16 02:00
480-110496-3	INFLUENT 120516	Water	12/05/16 07:30	12/06/16 02:00
480-110496-4	INFLUENT 120516	Water	12/05/16 07:30	12/06/16 02:00
480-110496-5	EFFLUENT 120516	Water	12/05/16 07:30	12/06/16 02:00

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10 Hazelwood Drive	ັບ	Chain of Custody Record	Custo	odv Re	cord								B	Ē	2 0
Amherst, NY 14228-2298 Phone (716) 691-2600 Fax (716) 691-7991		ļ		•	!				Ì		:		the leader	IN PRINCE	the liader in princeptivial testing
Client Information	Sample MATIN	W	remede		Lab PM: Johnson, Orlette S	S			υ_	نڌ	wa Ta		COC No: 480-78315-10589.1	10589.1	-
Client Contact Mr. Yuri Veliz	1 1	18	300	E-Mail: orlette.	johnson@	testamer	icainc.c	Ę	l		53		Page: Page 1 of 1		
Company: O'Brien & Gere Inc of North America							Analysis	.9	Requ	80-1104	480-110496 COC		Job #.		
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:				400.00					,			Preservation Codes	ပ္ပိ	
City: East Syracuse	TAT Requested (days):	s):											B - NaOH C - Zn Acetate		N - None O - AsNaO2
State, Zip: NY, 13221													D - Nitric Acid E - NaHSO4 F - MeOH		a2048 a2803 a28203
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO#. 11600011												G - Amchior H - Ascorbic A	g	2SO4 SP Dodecahydra
	WO#.			N 493	• (on							s)	i - Ice J - Di Water	A-U	cetone CAA
Cast	Project #: 48008584			9X).9	JO Se							enistr	L-EDA	Z-d	ner (specify)
	SSOW#.			ames	y) ası							oo Jo	Other:		
				Matrix es (w=water, E= s=solid, 0=wasteriolit, 0=wasteriolit, 0=wasteriolit, 0=0	W.S.M. Mich Is IBIOT - GOP	40C Caled - '	onis - 201 706 - Mercur					redmuN (sr		,	
Sample Identification	Sample Date	Time		7 黎	797 X 58		- 					o1 X	Spec	ial Instruc	Special Instructions/Note:
Effluent /205//0	12-5-16	730	J	Water			_					7			
Between Carbons 120516	12-5-16	1:30	9	Water		W						m			
Inffluent 120516	12-5-16	7:30	U	Water			//					K.			_
Inflorm 120516	12-5-16	7:30	9	with		3						ത			
Fftwar 120516	13-5-16	17:30	71 (3)	water		3						200	-		
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Possible Hazard Identification	Interpretation	<u> </u>	Radiological		Sample	le Disposal (A t Retum To Client	I (A fee	may be	assess	assessed if san Disposal By Lab	nples are	Archive	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	an 1 mont	mth) Months
Other (specify)	ŀ		500		Special	Special Instructions/QC Requirements:	ns/QC R	equiren	ents:						
Empty Kit Relinquished by:		Date:		T	Time:		(Method of Shipment:	hipment				
Relinquished by: Matter Frahm	Date/Time: 12-16	4.6/	3	$\mathcal{G}\mathcal{S}_{Aueduo}^{O}$	Recei	Year by:	1	3	[]	5)	Qate/Time:		2-5-	(C Company	とい
REVELLILE	Date/Time: 	231	1,02	Company	Receive	New York	X X		-		Date/Time:	6-16	0300		Company
	Date/Time: /		Ö	Company	Receiv	vijdloy:	,		İ		Date/Time:			Сотрану	any
Custody Seals Intact: Custody Seal No.:					Coale	Cooler Temperature(s) °C and Other Remarks:	ure(s) °C	and Other	Remarks.					Ö	本 5

TestAmerica Buffalo

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America Job Number: 480-110496-1

Login Number: 110496 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Creator. Williams, Christopher 3		
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	

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 480-110978-1

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. Al Farrell



Authorized for release by: 12/20/2016 11:07:32 AM

Joe Giacomazza, Project Management Assistant II joe.giacomazza@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

·····LINKS ·······

Review your project results through
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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 Project/Site: Former Accurate Die Cast

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-110978-1

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-110978-1

Job ID: 480-110978-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-110978-1

Receipt

The sample was received on 12/13/2016 2:15 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7° 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 TestAmerica Job ID: 480-110978-1

Client Sample ID: EFFLUENT 121216

Lab Sample ID: 480-110978-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Total Dissolved Solids	675	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 TestAmerica Job ID: 480-110978-1

Client Sample ID: EFFLUENT 121216

Lab Sample ID: 480-110978-1

Matrix: Water

Date Collected: 12/12/16 07:45 Date Received: 12/13/16 02:15

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	675		10.0	4.0	mg/L			12/16/16 21:33	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			12/16/16 00:39	1

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TestAmerica Job ID: 480-110978-1

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: EFFLUENT 121216

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

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 480-336712/1

Matrix: Water

Analysis Batch: 336712

мв мв

Result Qualifier RL Analyte RL Unit D Prepared Analyzed Dil Fac 1.0 12/16/16 00:39 **Total Suspended Solids** ND 1.0 mg/L

Lab Sample ID: LCS 480-336712/2

Matrix: Water

Analysis Batch: 336712

LCS LCS %Rec. Spike Added Analyte Result Qualifier Unit %Rec Limits **Total Suspended Solids** 246 245.6 mg/L 100 88 - 110

Lab Sample ID: 480-110978-1 DU

Matrix: Water

Analysis Batch: 336712

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

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-336925/1

Matrix: Water

Analysis Batch: 336925

мв мв

Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared Total Dissolved Solids ND 10.0 12/16/16 21:33 4.0 mg/L

Lab Sample ID: LCS 480-336925/2

Matrix: Water

Analysis Batch: 336925

	Spike	LCS L	LCS			%Rec.	
Analyte	Added	Result (Qualifier U	nit D	%Rec	Limits	
Total Dissolved Solids	523	507.0	m	g/L	97	85 - 115	

TestAmerica Buffalo

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-110978-1

General Chemistry

Analysis Batch: 336712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110978-1	EFFLUENT 121216	Total/NA	Water	SM 2540D	
MB 480-336712/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-336712/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-110978-1 DU	EFFLUENT 121216	Total/NA	Water	SM 2540D	

Analysis Batch: 336925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110978-1	EFFLUENT 121216	Total/NA	Water	SM2540 C	
MB 480-336925/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-336925/2	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

Client Sample ID: EFFLUENT 121216

TestAmerica Job ID: 480-110978-1

Lab Sample ID: 480-110978-1

Matrix: Water

Date Collected: 12/12/16 07:45 Date Received: 12/13/16 02:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	336712	12/16/16 00:39	KMB	TAL BUF
Total/NA	Analysis	SM2540 C		1	336925	12/16/16 21:33	ELR	TAL BUF

Laboratory References:

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

Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-110978-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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Method Summary

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

TestAmerica Job ID: 480-110978-1

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 = 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

TestAmerica Job ID: 480-110978-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-110978-1	EFFLUENT 121216	Water	12/12/16 07:45	12/13/16 02:15

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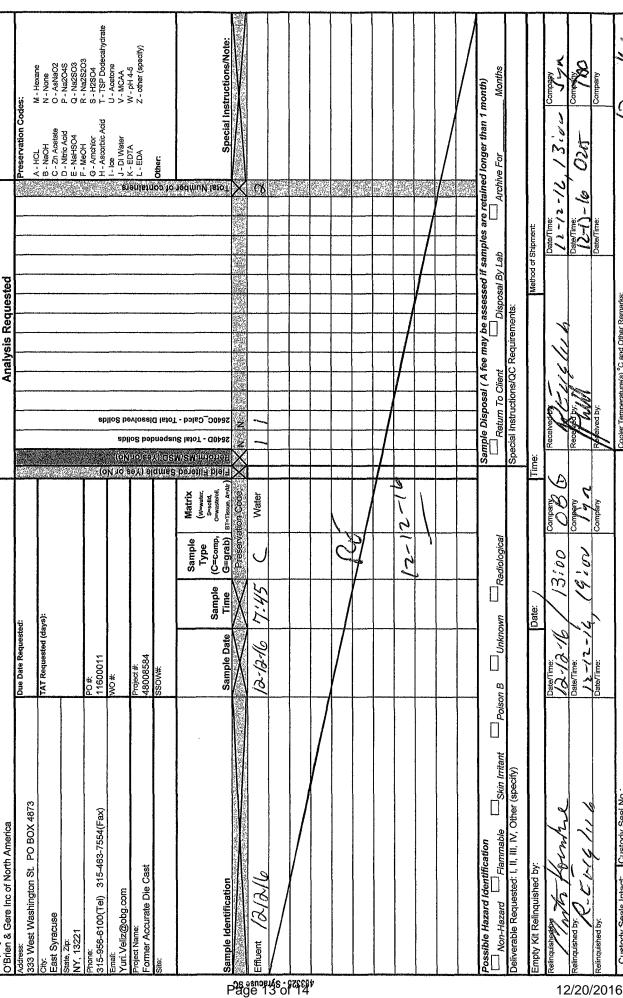
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TestAmerica Buffalo

Amherst, NY 14228-2298 Phone (716) 691-7600 Fax (716) 691-7991 10 Hazelwood Drive

(1 (0) 03 (-2000 (ex (1 (0) 03 (-1 33)			
ient information	Sampler ATIN KOEWWECKE	Lab PM: Johnson, Orlette S	
ant Contact	Phone: 7 7 / Cincip	E-Mail;	480-110978 000
	スプランチャン シンクロ	orlotto introductorionino com	



Custody Seals Intact:

Δ Yes Δ No

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America Job Number: 480-110978-1

Login Number: 110978 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Creator. Williams, Christopher S		
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.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica Buffalo



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 480-111471-1

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. Al Farrell



Authorized for release by: 12/29/2016 10:06:16 AM

Joe Giacomazza, Project Management Assistant II joe.giacomazza@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@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)

TestAmerica Job ID: 480-111471-1

Glossary

TEF

TEQ

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

TestAmerica Buffalo

Page 3 of 16

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-111471-1

estAmenca 300 ib. 400-11147 1-1

Job ID: 480-111471-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-111471-1

Receipt

The samples were received on $12/23/2016\ 2:00\ AM$; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was $1.0^{\circ}\ C$.

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 TestAmerica Job ID: 480-111471-1

Client Sample ID: EFFLUENT 122216

Lab Sample ID: 480-111471-1

AnalyteResultQualifierRLMDLUnitDil FacDMethodPrep TypeTotal Dissolved Solids68610.04.0mg/L15M2540 CTotal/NA

Client Sample ID: EFFLUENT 122216 Lab Sample ID: 480-111471-2

No Detections.

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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 122216

TestAmerica Job ID: 480-111471-1

Lab Sample ID: 480-111471-1

Matrix: Water

Date Collected: 12/22/16 10:30 Date Received: 12/23/16 03:00

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	686		10.0	4.0	mg/L			12/27/16 10:06	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			12/23/16 15:58	1

Client Sample ID: EFFLUENT 122216 Lab Sample ID: 480-111471-2

Date Collected: 12/22/16 10:30 **Matrix: Water**

Date Received: 12/23/16 03:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/23/16 14:12	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/23/16 14:12	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/23/16 14:12	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/23/16 14:12	1
Toluene	ND		1.0	0.51	ug/L			12/23/16 14:12	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/23/16 14:12	1
Trichloroethene	ND		1.0	0.46	ug/L			12/23/16 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120			•		12/23/16 14:12	1
4-Bromofluorobenzene (Surr)	90		73 - 120					12/23/16 14:12	1
Toluene-d8 (Surr)	100		80 - 120					12/23/16 14:12	1
Dibromofluoromethane (Surr)	104		75 - 123					12/23/16 14:12	1

Surrogate Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-111471-1

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

Matrix: Water Prep Type: Total/NA

_		Percent Surrogate Recovery (Acceptance Limits)						
		12DCE	BFB	TOL	DBFM			
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)			
480-111471-2	EFFLUENT 122216	102	90	100	104			
LCS 480-337885/18	Lab Control Sample	99	94	103	100			
MB 480-337885/7	Method Blank	100	89	102	105			
Surrogate Legend								
12DCE = 1,2-Dichloro	ethane-d4 (Surr)							

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

DBFM = Dibromofluoromethane (Surr)

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TestAmerica Job ID: 480-111471-1

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 480-337885/7

Matrix: Water

Analysis Batch: 337885

Client Sample ID: Method Blank

Prep Type: Total/NA

	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			12/23/16 12:09	1
cis-1,2-Dichloroethene	ND	1.0	0.81	ug/L			12/23/16 12:09	1
Methylene Chloride	ND	1.0	0.44	ug/L			12/23/16 12:09	1
Tetrachloroethene	ND	1.0	0.36	ug/L			12/23/16 12:09	1
Toluene	ND	1.0	0.51	ug/L			12/23/16 12:09	1
trans-1,2-Dichloroethene	ND	1.0	0.90	ug/L			12/23/16 12:09	1
Trichloroethene	ND	1.0	0.46	ug/L			12/23/16 12:09	1

MB MB

Surrogate	%Recovery	Qualifier Limi	ts	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	100	77 -	120		12/23/16 12:09	1	
4-Bromofluorobenzene (Surr)	89	73 -	120		12/23/16 12:09	1	
Toluene-d8 (Surr)	102	80 -	120		12/23/16 12:09	1	
Dibromofluoromethane (Surr)	105	75 -	123		12/23/16 12:09	1	

Lab Sample ID: LCS 480-337885/18

Matrix: Water

Analysis Batch: 337885

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client Sample ID: Method Blank

Prep Type: Total/NA

, ,	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1,2,2-Tetrachloroethane	25.0	25.3		ug/L		101	76 - 120
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	74 - 124
Methylene Chloride	25.0	23.9		ug/L		96	75 - 124
Tetrachloroethene	25.0	22.0		ug/L		88	74 - 122
Toluene	25.0	24.0		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	73 - 127
Trichloroethene	25.0	22.3		ug/L		89	74 - 123

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	94		73 - 120
Toluene-d8 (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	100		75 - 123

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

Lab Sample ID: MB 480-337969/1

Matrix: Water

Analysis Batch: 337969

MB MB

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			12/23/16 15:58	1

Page 8 of 16

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

TestAmerica Job ID: 480-111471-1

Lab Sample ID: LCS 480-337969/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 337969** Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit D %Rec Limits Total Suspended Solids 246 244.0 mg/L 99 88 - 110

Lab Sample ID: 480-111471-1 DU Client Sample ID: EFFLUENT 122216 **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 337969

Sample Sample DU DU **RPD** Result Qualifier Result Qualifier Analyte Unit D RPD Limit **Total Suspended Solids** $\overline{\mathsf{ND}}$ ND mg/L NC

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-338054/1 Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA** Analysis Batch: 338054

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac **Total Dissolved Solids** ND 10.0 4.0 mg/L 12/27/16 10:06

Lab Sample ID: LCS 480-338054/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Analysis Batch: 338054

LCS LCS Spike %Rec. Added Result Qualifier Unit %Rec Limits Total Dissolved Solids 506 505.0 mg/L 100 85 - 115

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-111471-1

GC/MS VOA

Analysis Batch: 337885

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
80-111471-2	EFFLUENT 122216	Total/NA	Water	8260C	
MB 480-337885/7	Method Blank	Total/NA	Water	8260C	
.CS 480-337885/18	Lab Control Sample	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 337969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
480-111471-1	EFFLUENT 122216	Total/NA	Water	SM 2540D
MB 480-337969/1	Method Blank	Total/NA	Water	SM 2540D
LCS 480-337969/2	Lab Control Sample	Total/NA	Water	SM 2540D
480-111471-1 DU	EFFLUENT 122216	Total/NA	Water	SM 2540D

Analysis Batch: 338054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-111471-1	EFFLUENT 122216	Total/NA	Water	SM2540 C	
MB 480-338054/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-338054/2	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 TestAmerica Job ID: 480-111471-1

Client Sample ID: EFFLUENT 122216

Date Collected: 12/22/16 10:30 Date Received: 12/23/16 03:00 Lab Sample ID: 480-111471-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D			337969	12/23/16 15:58	CDC	TAL BUF
Total/NA	Analysis	SM2540 C		1	338054	12/27/16 10:06	EKB	TAL BUF

Client Sample ID: EFFLUENT 122216 Lab Sample ID: 480-111471-2

Date Collected: 12/22/16 10:30

Date Received: 12/23/16 03:00

Lab Sample ID: 480-111471-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	337885	12/23/16 14:12	RRS	TAL BUF

Laboratory References:

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

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Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-111471-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-111471-1

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

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

TestAmerica Buffalo

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Sample Summary

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

TestAmerica Job ID: 480-111471-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-111471-1	EFFLUENT 122216	Water	12/22/16 10:30	12/23/16 03:00
480-111471-2	EFFLUENT 122216	Water	12/22/16 10:30	12/23/16 03:00

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Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record

TestAmerica Buffalo

TestAmerico THE LIABER MANUFICAMENTAL TESTING

			てくているという
10 Hazelwood Drive	Chain of Custody Record	70	ı
Amherst, NY 14228-2238 Phone (716) 691-2600 Fax (716) 691-7991	`		the etable metaphornal testing
Client Information	Sample All Knewne & Johnson, Orlette S	Carr K K K K K K K K K K K K K K K K K K	COC No: 480-78352-10587.1
Client Contact.	300	Section in the section is the section in the section in the section is the section in the sectio	Page:
IMI. YUTI VEIIZ	0001-100	onette, jonnson (grestamen cainc. com	Fage 1 or 1
O'Brien & Gere Inc of North America		Analysis Reque	
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:	480-111471 COC	Preservation Cod
City: East Syracuse	TAT Requested (days):		
State, Zip: NY, 13221			D - Nitric Acid P - Na2O4S E - NathSO4 Q - Na2SO3
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO#		F - MeOrt R - Nazszos Marchior S - HzSO4 H - Ascorbic Acid T - TSP Dodecahydrate
Emait: Yuri.Veliz@obg.com	(9) N 10	ilos b	1 - Ice J - DI Water
Project Name: Former Accurate Die Cast	10 sa	oviossi	CANCELL PROPERTY OF THE
Site:	x) as	G isto'	Other:
	Sample Matrix od SS ST Type (Verwater, TS) (T) Total	- Total St Aolatile	івфилу
Sample Identification	S-solid, 0 0 P, O-wastefoli, 0 0 D	5240C	(五) Special Instructions/Note:
· Constitution	Preservation Code:	T N	
Effluent 12216	13-32-16 1030 C Water 11		C (0)
Extlest 122216	12-22-16 1030 (5 Withtel	3	S.
	37		
	-		
	01-77-71		
Possible Hazard Identification Non-Hazard Elemmahle Skin Irritant Poison B	Unknown Badiological	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal BV Lab Hon	re retained longer than 1 month) Archive For Months
ssted: I, II, IV, Other (specify)		Requirem	
Empty Kit Relinquished by:	Date: / Time:	Method of Shipment:	
Refinquished by: My H. M.	Date Time: 1 1 95 Company G Rec	Date/Time:	32-16. 11.05 Company
1221111		- W. W. W.	

telinquished by: Relinquished by: Custody Seal No.:

Custody Seals Intact: △ Yes △ No

12-22-76 Date/Time:

Client: O'Brien & Gere Inc of North America

Job Number: 480-111471-1

Login Number: 111471 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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	

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

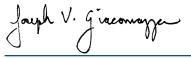
TestAmerica Job ID: 480-111539-1

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. Al Farrell



Authorized for release by: 12/30/2016 9:59:46 AM

Joe Giacomazza, Project Management Assistant II joe.giacomazza@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@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 Quotient (Dioxin)

TestAmerica Job ID: 480-111539-1

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Case Narrative

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-111539-1

Job ID: 480-111539-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-111539-1

Receipt

The sample was received on 12/28/2016 9:15 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° 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 TestAmerica Job ID: 480-111539-1

Client Sample ID: EFFLUENT 122716

Lab Sample ID: 480-111539-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Total Dissolved Solids	731	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

Client Sample ID: EFFLUENT 122716

TestAmerica Job ID: 480-111539-1

Lab Sample ID: 480-111539-1

Matrix: Water

Date Collected: 12/27/16 07:30 Date Received: 12/28/16 09:15

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	731		10.0	4.0	mg/L			12/28/16 18:57	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			12/28/16 16:58	1

TestAmerica Job ID: 480-111539-1

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 480-338274/1 Client Sample ID: Method Blank
Matrix: Water Prep Type: Total/NA

Analysis Batch: 338274

 Analyte
 Result
 Qualifier
 RL
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total Suspended Solids
 ND
 1.0
 1.0
 mg/L
 12/28/16 16:58
 1

Lab Sample ID: LCS 480-338274/2

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 338274

 Spike
 LCS
 LCS
 %Rec.

 Analyte
 Added
 Result
 Qualifier
 Unit
 D
 %Rec
 Limits

 Total Suspended Solids
 236
 233.2
 mg/L
 99
 88 - 110

Lab Sample ID: 480-111539-1 DU

Matrix: Water

Client Sample ID: EFFLUENT 122716

Prep Type: Total/NA

Analysis Batch: 338274

 Sample
 Sample
 DU DU
 RPD

 Analyte
 Result Qualifier
 Result Qualifier Qualifier
 Unit D
 RPD Limit NC

 Total Suspended Solids
 ND
 ND
 mg/L
 NC
 10

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-338286/1

Matrix: Water

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

Analysis Batch: 338286

 MB MB

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total Dissolved Solids
 ND
 10.0
 4.0
 mg/L
 12/28/16 18:57
 1

Lab Sample ID: LCS 480-338286/2

Matrix: Water

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 338286

 Analyte
 Added Dissolved Solids
 Result Solids
 Qualifier Unit Dissolved Solids
 Unit Dissolved Solids
 Discolution Name
 WRec.
 Limits

 Total Dissolved Solids
 506
 505.0
 mg/L
 100
 85 - 115

TestAmerica Buffalo

12/30/2016

QC Association Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-111539-1

General Chemistry

Analysis Batch: 338274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
480-111539-1	EFFLUENT 122716	Total/NA	Water	SM 2540D
MB 480-338274/1	Method Blank	Total/NA	Water	SM 2540D
LCS 480-338274/2	Lab Control Sample	Total/NA	Water	SM 2540D
480-111539-1 DU	EFFLUENT 122716	Total/NA	Water	SM 2540D

Analysis Batch: 338286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-111539-1	EFFLUENT 122716	Total/NA	Water	SM2540 C	
MB 480-338286/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-338286/2	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

Client Sample ID: EFFLUENT 122716

TestAmerica Job ID: 480-111539-1

Lab Sample ID: 480-111539-1

Matrix: Water

Date Collected: 12/27/16 07:30

Date Received: 12/28/16 09:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	338274	12/28/16 16:58	CDC	TAL BUF
Total/NA	Analysis	SM2540 C		1	338286	12/28/16 18:57	CDC	TAL BUF

Laboratory References:

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

Certification Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-111539-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-111539-1

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 = 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

TestAmerica Job ID: 480-111539-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-111539-1	EFFLUENT 122716	Water	12/27/16 07:30	12/28/16 09:15

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Chain of Custody Record

mation	3	Johnson, Orlette S		480-78339-10586.1
Client Contact: Mr. Yuri Veliz	Phone: 3/5-729-1300	E-wall: orlette.johnson@testamericainc.com		rage. Page 1 of 1
Company: O'Brien & Gere Inc of North America		Analysis Req	Requested	Job #:
Address: 333 West Washington St. PO BOX 4873	Due Date Requested;			Ö
City: East Syracuse State, Zip: NY 12221	TAT Requested (days):			A - TUL M - HEXARE B - NADV N - None C - Zn Acetate O - AshaOZ D - Nitric Acid P - Na2O4S E - NaHSO4
00(Tel) 315-463-7554(Fax)	PO# 11600011			F - MeOH G - Amchlor H - Ascorbic
	WO#:	No) abil		i - ice J - Di Water K - EDTA
Cast	Project #: 48008584	os paj		L-EDA 480-111539 COC
	SSOW#;	isbenc		Other:
Sample Identification	Sample Type Sample (C=comp,	Matrix (Vi-wate, Collection) (Vi-wate, Collection) S-solid O-washold (Collection) S5400 - Total S S5400 - Collection S5400 - Co	ied muki istoT	Special Instructions/Note:
	Preserva	z X		
Effluent /22716	12-2/16 7:30 C V	Water	76	
/				
	7		2 - WA	
	7-6-7			
	0 />			,
Possible Hazard Identification	n B	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client	assessed if samples are retained I	d longer than 1 month) ve For Months
Other (specify)		Requirem		
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:	
Retinguisher of the Kerne Mu	Date/Time: 18-27-16 / 1045 0001	H MILLER STORE OF THE	2 Southerner	-16 1045 SUL
Relinquisped By Many	27 +K 1400	Z	128/	6 OGIO Company
	Date/Time: Compleny		Date/Tine:	Company
Custody Seals Intact: Custody Seal No.: △ Yes △ No		Cooler Temperature(s) ${}^{\circ}$ C and Other Remarks:	marks:	Tr.
		1		
		1 2 3 4	5 7 8 9	1 2 3 4

TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228-2298 Phone (716) 691-2600 Fax (716) 691-7991

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12/30/2016

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America Job Number: 480-111539-1

Login Number: 111539 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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.
Samples were received on ice. True
Cooler Temperature is acceptable. True
Cooler Temperature is recorded.
COC is present. True
COC is filled out in ink and legible.
COC 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.
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 N/A diameter.
If necessary, staff have been informed of any short hold time or quick TAT True needs
Multiphasic samples are not present. True
Samples do not require splitting or compositing.
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

TestAmerica Buffalo

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