

November 4, 2011

### Mr. John C. Grathwol, P.E.

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

RE: Former Accurate Die Casting Site Fayetteville, New York

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 third quarter of 2011 (July 1 through September 30). 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 September 30, 2011, a total of 93,783,160 gallons of groundwater has been treated since startup on February 5, 1996. Since June 1, 2011 (see note below), 1,533,570 gallons of groundwater have been treated: 513,870 gallons from recovery well RW-1; 1,018,870 gallons from recovery well RW-2; and 830 gallons from the sump located outside the northeast corner of the building. No groundwater was collected from the collection trench constructed in the former VOC/PAH/PCB Soils Area.

(Note: The quarterly report dated August 2, 2011 indicated in error that the total of groundwater recovered as of June 30, 2011 was 92,249,590 gallons, but that is the amount recorded as of June 1, 2011. As such, the volumes reported in the August 2, 2011 letter are for the period between April 1 and June 1, 2011 rather than April 1 to June 30, 2011.)

O'Brien & Gere performed the sampling activities associated with the SPDES Fact Sheet (#734052). The analytical results associated with the SPDES Fact Sheet monitoring activities performed during July, August, and September 2011 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, and conduct the annual groundwater monitoring well sampling.

Mr. John C. Grathwol, P.E. November 4, 2011 Page 2

If you have any questions regarding this report, please do not hesitate to call me at (315) 956-6100.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Alfred R. Farrell, P.E. Project Associate

### Attachments

cc: T. Slutzky – The Anderson Company

T. Olmsted – ITT Corporation S. Roland – O'Brien & Gere

J. Sutphen – O'Brien & Gere, Office of General Counsel

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

		Monitoring	Requirements					
	Discharge	Discharge	Minimum					
Analyte (units)	Limitation	Limitation	Measurement	Sample	Effluent	Effluent	Effluent	Efflue
	Daily Average	Daily Maximum	Frequency (1)	Type	7/5/2011	7/7/2011	7/8/2010	7/11/20
Flow (GPD)	Monitor	150000	Continuous	Meter	13033	13018	12960	1293
pH (SU)	6.5-8.5		2/Week	Grab	8.21	8.23	8.25	8.23
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.		5 U		
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.		740		
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.		0.02 U		
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab		0.5 U		
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab		0.5 U		
Methylene chloride (ug/L)	Monitor	20	2/Month	Grab		2 U		
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	10	2/Month	Grab		0.5 U		
Tetrachloroethene (ug/L)	Monitor	10	2/Month	Grab		0.5 U		
Toluene (ug/L)	Monitor	20	2/Month	Grab		0.5 U		
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab		0.5 U		

#### Notes:

- Not analyzed, NA Data Not available
- U Not Detected, J Estimated
- (1) Minimum monitoring requirements based on SPEDES permit modified November, 21, 1997.

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

	ĺ							
Analyte (units)	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
rinaryte (units)	7/12/2011	7/14/2011	7/20/2011	7/25/2011	7/29/2011	8/1/2011	8/4/2011	8/5/2011
Flow (GPD)	12817	12884		12725	12567	12487	12372	12365
pH (SU)	8.23	8.55		8.25	8.23	8.23	8.23	8.21
Residue, non-filterable (mg/L)	5 U		5 U	5 U		5 U		
Total dissolved solids (TDS) (mg/L)	860		750	690		770		
Mercury, total (mg/L)								
Zinc, total (mg/L)								
cis-1,2-Dichloroethene (ug/L)			0.5 U			0.5 U		
trans-1,2-Dichloroethene (ug/L)			0.5 U			0.5 U		
Methylene chloride (ug/L)			2 U			2 U		
1,1,2,2-Tetrachloroethane (ug/L)			0.5 U			0.5 U		
Tetrachloroethene (ug/L)			0.5 U			0.5 U		
Toluene (ug/L)			0.5 U			0.5 U		
Trichloroethene (ug/L)			0.5 U			0.5 U		

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

Analyte (units)	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
[, (,	8/8/2011	8/10/2011	8/11/2011	8/12/2011	8/15/2011	8/17/2011	8/18/2011	8/19/2011
Flow (GPD)	12307	12240	12220	12268	12294	12233	12273	12365
pH (SU)	8.23	8.21	8.23	8.23	8.21	8.23	8.23	8.23
Residue, non-filterable (mg/L)	5 U				5 U			
Total dissolved solids (TDS) (mg/L)	740				720			
Mercury, total (mg/L)								
Zinc, total (mg/L)								
Zano, total (mg/2)								
cis-1,2-Dichloroethene (ug/L)					0.5 U			
trans-1,2-Dichloroethene (ug/L)					0.5 U			
Methylene chloride (ug/L)					2 U			
1,1,2,2-Tetrachloroethane (ug/L)					0.5 U			
Tetrachloroethene (ug/L)					0.5 U			
Toluene (ug/L)					0.5 U			
Trichloroethene (ug/L)					0.5 U			

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

Analyte (units)	Effluent							
Analyte (units)	8/22/2011	8/23/2011	8/24/2011	8/25/2011	8/26/2011	8/29/2011	8/30/2011	8/31/2011
Flow (GPD)	12262	12350	12060	12240	12080	12174	12106	12167
pH (SU)	8.23	8.21	8.23	8.23	8.23	8.23	8.21	8.23
Residue, non-filterable (mg/L)	5 U					5 U		
Total dissolved solids (TDS) (mg/L)	750					720		
rom dissorved solids (123) (mg/2)	750					,20		
Mercury, total (mg/L)								
Zinc, total (mg/L)								
cis-1,2-Dichloroethene (ug/L)								
trans-1,2-Dichloroethene (ug/L)								
Methylene chloride (ug/L)								
1,1,2,2-Tetrachloroethane (ug/L)								
Tetrachloroethene (ug/L)								
Toluene (ug/L)								
Trichloroethene (ug/L)								

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

Analyte (units)	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
	9/2/2011	9/6/2011	9/8/2011	9/9/2011	9/12/2011	9/16/2011	9/19/2011	9/26/2011	9/27/2011
Flow (GPD)	12342	12234	12331	12770	12556	12500	12410	12391	12180
pH (SU)	8.23	8.23	8.23	8.21	8.23	8.21	8.23	8.23	8.23
Residue, non-filterable (mg/L)			5 U		5 U		5 U	5 U	
Total dissolved solids (TDS) (mg/L)			770		770		700	780	
Mercury, total (mg/L)									
Zinc, total (mg/L)									
cis-1,2-Dichloroethene (ug/L)			0.5 U				0.5 U		
trans-1,2-Dichloroethene (ug/L)			0.5 U				0.5 U		
Methylene chloride (ug/L)			2 U				2 U		
1,1,2,2-Tetrachloroethane (ug/L)			0.5 U				0.5 U		
Tetrachloroethene (ug/L)			0.5 U				0.5 U		
Toluene (ug/L)			0.5 U				0.5 U		
Trichloroethene (ug/L)			0.5 U				0.5 U		

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

Analyte (units)	Effluent	Effluent	Effluent
	9/28/2011	9/29/2011	9/30/2011
Flow (GPD)	12400	12327	12280
pH (SU)	8.23	8.23	8.21
Residue, non-filterable (mg/L)			
Total dissolved solids (TDS) (mg/L)			
-			
Mercury, total (mg/L)			
Zinc, total (mg/L)			
cis-1,2-Dichloroethene (ug/L)			
trans-1,2-Dichloroethene (ug/L)			
Methylene chloride (ug/L)			
1,1,2,2-Tetrachloroethane (ug/L)			
Tetrachloroethene (ug/L)			
Toluene (ug/L)			
Trichloroethene (ug/L)			



Thursday, July 21, 2011

Mr. Al Farrell O'Brien & Gere Engineers, Inc. 333 W. Washington St. P.O. Box 4873 Syracuse, NY 13221-4873

TEL: 315-956-6100

Project: FORMER ACCURATE DIE CAST

RE: Analytical Results

Order No.: K1107034

Dear Mr. Al Farrell:

Life Science Laboratories, Inc. received 5 sample(s) on 7/7/2011 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours, Life Science Laboratories, Inc.

Anthony Crescenzi

Project Manager

# **Analytical Results**

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

StateCertNo: 10248

**CLIENT** 

O'Brien & Gere Engineers, Inc.

Lab ID: Client Sample ID: WTP Influent Grab 7/7/11

K1107034-001A

Project:

Former Accurate Die Cast

W Order:

K1107034

**Collection Date:** 

07/07/11 9:30

Matrix:

**Date Received:** PrepDate:

07/07/11 10:12

Inst. ID:

WATER

Sample Size 10 mL

ColumnID: Rtx-VMS

MS01 11

%Moisture:

BatchNo:

R22135

**Revision:** 

07/08/11 8:54

TestCode 8260W

FileID:

1-SAMP-T2181.D

Col Type:

Analyte	Result Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUND	S BY GC/MS		SW8260B		
1,1,2,2-Tetrachloroethane	ND	10.0	μg/L	20	07/07/11 17:48
cis-1,2-Dichloroethene	ND	10.0	μg/L	20	07/07/11 17:48
Methylene chloride	ND	40.0	μg/L	20	07/07/11 17:48
Tetrachloroethene	ND	10.0	μg/L	20	07/07/11 17:48
Toluene	ND	10.0	μg/L	20	07/07/11 17:48
trans-1,2-Dichloroethene	ND	10.0	μg/L	20	07/07/11 17:48
Trichloroethene	513	10.0	μg/L	20	07/07/11 17:48
Surr: 1.2-Dichloroethane-d4	117	75-128	%REC	20	07/07/11 17:48
Surr: 4-Bromofluorobenzene	96	75-125	%REC	20	07/07/11 17:48
Surr: Toluene-d8	100	75-125	%REC	20	07/07/11 17:48

Qualifiers:

Print Date: 07/08/11 8:55

Value exceeds Maximum Contaminant Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

562503

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Page 1 of 3 Project Supervisor: Anthony Crescenzi

### **Analytical Results**

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

StateCertNo: 10248

O'Brien & Gere Engineers, Inc. CLIENT

Former Accurate Die Cast

Lab ID: K1107034-002A Client Sample ID: WTP Between Carbon Grab 7/

Project: K1107034 W Order:

07/07/11 9:30 **Collection Date: Date Received:** 

Matrix: WATER Inst. ID: MS01 11

PrepDate:

07/07/11 10:12

Sample Size 10 mL %Moisture:

BatchNo:

R22135

ColumnID: Rtx-VMS 07/08/11 8:54 **Revision:** 

TestCode 8260W

1-SAMP-T2182.D FileID:

Col Type:

Analyte	Result Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUND	S BY GC/MS		SW8260B		
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1	07/07/11 18:21
cis-1,2-Dichloroethene	1.39	0.50	μg/L	1	07/07/11 18:21
Methylene chloride	ND	2.00	μg/L	1	07/07/11 18:21
Tetrachloroethene	ND	0.50	μg/L	1	07/07/11 18:21
Toluene	ND	0.50	μg/L	1	07/07/11 18:21
trans-1,2-Dichloroethene	ND	0.50	μg/L	1	07/07/11 18:21
Trichloroethene	8.03	0.50	μg/L	1	07/07/11 18:21
Surr: 1.2-Dichloroethane-d4	116	75-128	%REC	1	07/07/11 18:21
Surr: 4-Bromofluorobenzene	95	75-125	%REC	1	07/07/11 18:21
Surr: Toluene-d8	99	75-125	%REC	1	07/07/11 18:21

Qualifiers
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- Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- Analyte detected below the PQL
- Prim./Conf. column %D or RPD exceeds limit
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- Spike Recovery outside accepted recovery limits

Page 2 of 3 Project Supervisor: Anthony Crescenzi 562504 Print Date: 07/08/11 8:55

**Analytical Results** 

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

StateCertNo: 10248

**CLIENT** 

O'Brien & Gere Engineers, Inc.

K1107034-003A

Project:

Former Accurate Die Cast

Client Sample ID: WTP Effluent Grab 7/7/11

W Order:

K1107034

**Collection Date:** Date Received:

07/07/11 9:30

Matrix:

WATER

07/07/11 10:12

Inst. ID:

MS01 11

Sample Size 10 mL

TestCode 8260W

PrepDate: BatchNo:

R22135

**Revision:** 07/08/11 8:54

ColumnID: Rtx-VMS

%Moisture:

FileID:

Lab ID:

1-SAMP-T2183.D

Col Type:

Analyte	Result Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS	S BY GC/MS		SW8260B		
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1	07/07/11 18:54
cis-1,2-Dichloroethene	ND	0.50	μg/L	1	07/07/11 18:54
Methylene chloride	ND	2.00	μg/L	1	07/07/11 18:54
Tetrachloroethene	ND	0.50	μg/L	1	07/07/11 18:54
Toluene	ND	0.50	μg/L	1	07/07/11 18:54
trans-1,2-Dichloroethene	ND	0.50	μg/L	1	07/07/11 18:54
Trichloroethene	ND	0.50	μg/L	1	07/07/11 18:54
Surr: 1,2-Dichloroethane-d4	120	75-128	%REC	1	07/07/11 18:54
Surr: 4-Bromofluorobenzene	94	75-125	%REC	1	07/07/11 18:54
Surr: Toluene-d8	98	75-125	%REC	1	07/07/11 18:54

Qualifiers:

Value exceeds Maximum Contaminant Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 07/08/11 8:55 Project Supervisor: Anthony Crescenzi Page 3 of 3 562505



5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

# **Analytical Results**

StateCertNo: 10248

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Former Accurate Die Cast

W Order: K1107034 Matrix: WATER Lab ID:

K1107034-004A

Client Sample ID: WTP Effluent Comp7/7/11

Collection Date:
Date Received:

07/07/11 9:30 07/07/11 10:12

Analyte	Result Qual	PQL Units	DF	Date Analyzed
MERCURY		EPA 245.1	(E245.	1)
Mercury	ND	0.00020 mg/L	1	07/13/11 17:18
TOTAL METALS BY ICP		EPA 200.7	(E200.	2)
Zinc	ND	0.020 mg/L	1	07/12/11 17:30

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 07/14/11 9:12 Project Supervisor: Anthony Crescenzi Page 1 of 2



5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

# **Analytical Results**

StateCertNo: 10248

CLIENT O'Brien & Gere Engineers, Inc.

Project: Former Accurate Die Cast

W Order: K1107034 Matrix: WATER Lab ID: K

K1107034-004B

Client Sample ID: WTP Effluent Comp 7/7/11

Collection Date: Date Received:

07/07/11 9:30 07/07/11 10:12

Analyte	Result Qual	PQL Units	DF	Date Analyzed
RESIDUE-FILTERABLE (TDS)		SM 18-20 2540 C		
Residue-filterable (TDS)	740	10 mg/L	1	07/14/11 10:00
RESIDUE-NON-FILTERABLE (TSS)		SM 18-20 2540 D		
Residue-non-filterable (TSS)	ND	5.0 mg/L	1	07/11/11 14:00

Qualifiers:

\* Value exceeds Maximum Contaminant Level

E Value exceeds the instrument calibration range

Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

Print Date: 07/21/11 10:19 Project Supervisor: Anthony Crescenzi Page 1 of 1



5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

# **Analytical Results**

StateCertNo: 10248

CLIENT: O'Brien & Gere Engineers, Inc. Lab ID: K1107034-005A

Project: Former Accurate Die Cast Client Sample ID: WTP Influent Comp 7/7/11

 W Order:
 K1107034
 Collection Date:
 07/07/11 9:30

 Matrix:
 WATER
 Date Received:
 07/07/11 10:12

Analyte	Result Qual	PQL Units	DF	Date Analyzed
MERCURY		EPA 245.1	(E24	5.1)
Mercury	ND	0.00020 mg/L	1	07/13/11 17:28
TOTAL METALS BY ICP		EPA 200.7	(E200	0.2)
Zinc	ND	0.020 mg/L	1	07/12/11 17:33

Qualifiers:

\* Value exceeds Maximum Contaminant Level

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

Print Date: 07/14/11 9:12 Project Supervisor: Anthony Crescenzi Page 2 of 2



Routine \_\_\_\_\_X\_\_

Cooler Temperature: 17.0 con Ta

# Life Science Laboratories, Inc. Central Lab

5854 Butternut Drive East Syracuse, New York 13057 (315) 445-1105 **Chain of Custody** 

Client: OBRIEN & GERE									Ar	nalysis	/Meth	od	
Project: Accurate Die						/		/				1	
Sampled by: MARTIN KDENNECK	te							/	/,	ر ا ا	/	/	
Client Contact: AL FARREL Phone #								/ 4		5		/	
Sample Description						82	KR, L	1/2					
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	3	/ %	/ <i>N</i> /					Comments
Influent	7-7-11	930	WATER	GRAB	3	3							
BETWEEN CARBONS	7-7-11	930	WATER	GRAB	3	3							
EffLuent	7-7-11	930	water	GRAB			3						
EffLuenT	7-7-11	930	WATER	Comp	2		·	1.	1				
IN FLUENT	7-7-11	9:30	water	Comp				1					
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Relinquished by:	by: Date: Time: Received				d by:					Da	ate:	Time:	
Relinquished by:	Da	ite:	Time	•	Receive	d by Lat	p: /-	< 5	5		D	ate: <sup>ე</sup> − ე '	7-11 11 me: 12 804
Shipment Method: HAND				`	Airbill Nu	ımber:							
Turnaround Time Reguired:	Comments	:								s.			

Original - Laboratory Copy - Client

### Sample Receipt Checklist

Client Name:	OBG-MS			Date and T	ime Received:	7/7/2011 10:12:00 AM
Work Order N	umber: <b>K1107034</b>			Received b	y: gis	
Checklist com	pleted by:	,s <sup>-</sup> 7.	7-\( )	Reviewed	l by:	7-Q-((
		Delivery N	lethod: <u>Hand Delivered</u>			
Shipping conta	ainer/cooler in good con	dition?	Yes 🗸	No 🗌	Not Present	
Custody seals	intact on shipping conta	niner/cooler?	Yes	No 🗌	Not Present	<b>✓</b>
Custody seals	intact on sample bottles	s?	Yes 🗌	No 🗌	Not Applicable	✓
Chain of custo	ody present?		Yes 🔽	No 🗌		
Chain of custo	ody signed when relinqui	shed and received?	Yes 🗸	No 🗌		
Chain of custo	ody agrees with sample I	abels?	Yes 🗸	No 🗌		
Samples in pro	oper container/bottle?		Yes 🗸	No 🗌		
Sample contai	iners intact?		Yes 🗹	No 🗌		
Sufficient sam	ple volume for indicated	test?	Yes 🗸	No 🗌		
	· ceived within holding tin		Yes 🗸	No 🗌		
-	np Blank temperature in		Yes 🗸	No 🗌		
	vials have zero headspa		Yes 🗸	No 🗔	No VOA vials sub	mitted
	ceptable upon receipt?		Yes 🗸	No 🗌	Not Applicable	
>12 <2 <2 <2 <2	Preservative NaOH HNO3 HSO4 1:1 HCL	pH Acceptable  Yes N NA  Yes N NA  Yes N NA  Yes N NA  Yes N NA		<u>Vol</u>	lume of Preservativ	re added in Lab.
5-9	Pest/PCBs (608/8081)	Yes N NA	]			

Comments:

Corrective Action:



Thursday, July 21, 2011

Mr. Al Farrell O'Brien & Gere Engineers, Inc. 333 W. Washington St. P.O. Box 4873 Syracuse, NY 13221-4873

TEL: 315-956-6100

Project: FORMER ACCURATE DIE CAST

RE: Analytical Results

Order No.: K1107070

Dear Mr. Al Farrell:

Life Science Laboratories, Inc. received 1 sample(s) on 7/12/2011 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours, Life Science Laboratories, Inc.

Anthony Crescenzi Project Manager



5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

### **Analytical Results**

StateCertNo: 10248

**CLIENT** O'Brien & Gere Engineers, Inc. **Project:** Former Accurate Die Cast

W Order: K1107070 Matrix: WATER Lab ID:

K1107070-001A

Client Sample ID: Effluent Comp7/12/11

Collection Date:
Date Received:

07/12/11 7:30 07/12/11 9:34

Analyte	Result Qual	PQL Units	DF	Date Analyzed		
RESIDUE-FILTERABLE (TDS)		SM 18-20 2540 C				
Residue-filterable (TDS)	860	10 mg/L	1	07/18/11 9:58		
RESIDUE-NON-FILTERABLE (TSS)		SM 18-20 2540 D				
Residue-non-filterable (TSS)	ND	5.0 mg/L	1	07/14/11 11:00		

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 07/21/11 10:15 Project Supervisor: Anthony Crescenzi Page 1 of 1



# Life Science Laboratories, Inc. Central Lab

5854 Butternut Drive
East Syracuse, New York 13057
(315) 445-1105

# **Chain of Custody**

Client: OBRIEN & GERE						Analysis/Method							
Project: Accusate DIL	a.												
Sampled by: MARTIN KDEWNECKE						/_	n /	/	/	· /	/		
Client Contact: AL FARLEL Phone #					1/1	2	/	/					
Sample Description						755	\						
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers		/					/	Comments
EffLuent	3-12-11	730	worke			1							
	-			•									
					***	,							
							-						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	-			2.5							ļ		
		·											
									*************				
												<b>_</b> ,	
<i>M</i>													
Relinquished by:	Da	te:7-/2-	// Time	935	Receive	d by:					. D	ate:	Time:
Relinquished by:	Da	te:	Time		Receive	d by:					D	ate:	Time:
Relinquished by:	Da	te:	Time		Receive	d by Lat	):/ <del>{</del>	[ [	)	- All Marketine and the con-	D	ate; -   2	Time <sub>34</sub>
Shipment Method: HAND				· ·	Airbill No	umber:							<u> </u>

The state of the s	
Turnaround Time Required  Routine  Rush	Comments:
Cooler Temperature:	n.o conta

### Sample Receipt Checklist

Client Name: OBG-MS		Date and Ti	me Receive	d: <b>7</b>	7/12/2011 9:34:00 AM				
Work Order Number: K1107070		Received by	r: g	is					
Checklist completed by:	7-12-11 Date	Reviewed	by:	pe	フー: マー (i				
Delive	ry Method: Hand Delivered								
Shipping container/cooler in good condition?	Yes 🗸	No 🗌	Not Prese	ent 🗌					
Custody seals intact on shipping container/cooler?	Yes	No 🗌	Not Prese	ent 🔽					
Custody seals intact on sample bottles?	Yes	No 🗌	Not Appli	cable 🗹					
Chain of custody present?	Yes 🗹	No 🗌							
Chain of custody signed when relinquished and received?	Yes 🗸	No 🗌							
Chain of custody agrees with sample labels?	Yes 🗸	No 🗌							
Samples in proper container/bottle?	Yes 🗸	No 🗌							
Sample containers intact?	Yes 🗸	No 🗌							
Sufficient sample volume for indicated test?	Yes 🗸	No 🗌							
All samples received within holding time?	Yes 🗸	No 🗌							
Container/Temp Blank temperature in compliance?	Yes 🗹	No 🗌							
Water - VOA vials have zero headspace?	Yes	No 🗌	No VOA via	als submitted	<b>✓</b>				
Water - pH acceptable upon receipt?	Yes	No 🗌	Not Appli	cable 🗹					

Comments:

Corrective Action:



Wednesday, August 03, 2011

Mr. Al Farrell O'Brien & Gere Engineers, Inc. 333 W. Washington St. P.O. Box 4873 Syracuse, NY 13221-4873

TEL: 315-956-6100

Project: FORMER ACCURATE DIE CAST

RE: Analytical Results Order No.: K1107236

Dear Mr. Al Farrell:

Life Science Laboratories, Inc. received 2 sample(s) on 7/20/2011 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours,

Life Science Laboratories, Inc.

Anthony Crescenzi

Project Manager



5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

### **Analytical Results**

StateCertNo: 10248

CLIENT O'Brien & Gere Engineers, Inc.

Former Accurate Die Cast **Project:** 

W Order: K1107236 Matrix: WATER

Lab ID:

K1107236-001A

Client Sample ID: Effluent Comp 7/20/11

**Collection Date:** Date Received:

07/20/11 13:00 07/20/11 13:19

Analyte	Result Qual	PQL Units	DF	Date Analyzed	
RESIDUE-FILTERABLE (TDS)		SM 18-20 2540 C			
Residue-filterable (TDS)	750	10 mg/L	1	07/26/11 10:37	
RESIDUE-NON-FILTERABLE (TSS)		SM 18-20 2540 D			
Residue-non-filterable (TSS)	ND	5.0 mg/L	1	07/25/11 13:30	

Qualifiers:

Value exceeds Maximum Contaminant Level

E Value exceeds the instrument calibration range

Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

Print Date: 08/03/11 8:28 Project Supervisor: Anthony Crescenzi Page 1 of 1

# Life Science Laboratories, Inc. 5854 Butternut Drive

**Analytical Results** 

East Syracuse, NY 13057

(315) 445-1105

StateCertNo: 10248

CLIENT

O'Brien & Gere Engineers, Inc.

Lab ID: Client Sample ID: Effluent Comp 7/20/11

K1107236-002A

**Project:** 

Former Accurate Die Cast

**Collection Date:** 

W Order:

K1107236

%REC

%REC

1

07/20/11 13:00

Matrix:

WATER

**Date Received:** 

07/20/11 13:19

Inst. ID:

MSK 75

ColumnID: Rtx-VMS

Surr: 4-Bromofluorobenzene

Surr: Toluene-d8

08/02/11 14:36

Sample Size 10 mL %Moisture: TestCode 8260W

BatchNo: FileID:

PrepDate:

R22252 1-SAMP-K5033.D

**Revision:** 

Col Type: Units DF **Date Analyzed** Result Qual PQL Analyte **VOLATILE ORGANIC COMPOUNDS BY GC/MS** SW8260B 07/28/11 17:14 0.50 μg/L 1 ND 1.1.2.2-Tetrachloroethane 07/28/11 17:14 0.50 μg/L ND cis-1,2-Dichloroethene 07/28/11 17:14 ND 2.00 µg/L Methylene chloride 07/28/11 17:14 ND 0.50 µg/L Tetrachloroethene 0.50 07/28/11 17:14 µg/L ND Toluene 07/28/11 17:14 0.50 µg/L ND trans-1,2-Dichloroethene 07/28/11 17:14 0.50 μg/L ND Trichloroethene 07/28/11 17:14 104 75-128 %REC 1 Surr: 1,2-Dichloroethane-d4

75-125

75-125

107

97

- Value exceeds Maximum Contaminant Level
- Value exceeds the instrument calibration range
- Analyte detected below the PQL
- Prim./Conf. column %D or RPD exceeds limit
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
  - Spike Recovery outside accepted recovery limits

Page 1 of 1

07/28/11 17:14

07/28/11 17:14



# Life Science Laboratories, Inc. **Central Lab**

Comments:

5854 Butternut Drive East Syracuse, New York 13057 (315) 445-1105

# **Chain of Custody**

Client: OBRULL & GORL						Analysis/Method							
Project: Accurate Die		· (Fo	rue	(C)		/		w/					
Sampled by: Kon Stone				<del>, ,</del>			$\sim$	F/				/	
Client Contact: AL Frence Phone # 35-956-6316				/ .	<b>3</b> / .		/		/	/			
Sample Description					14		^/				/		
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	/		/ ·					Comments
EFFILENT	1/20	1360	<u>'</u>	9	ろ	3							
EPPVens			$\omega$	8	ì		Ì						
	ļ								·				
	-			7.5									
	ļ												
	•												
		7	0	3.4									
Relinquished by: Lyon Stom	Da	te: 7-)	Time	: Kins	Receive	d by:					D	ate:	Time:
Relinquished by:	Da	te:	Time	•	Receive	d by:					D	ate:	Time:
Relinquished by:	Da	te:	Time	•	Receive	d by Lai	D: R	7).	sker	•	D	<del>-07-20</del> ate:	) 13:19 Time:
Shipment Method:				`	Airbill Nu	ımber:						,	
Turnaround Time Required:	omments	•			-					\$. '			· · · · · · · · · · · · · · · · · · ·

Routine <b>X</b>	
Cooler Temperature: 10.4	on ice

### Sample Receipt Checklist

070 44			Data and Tim	- Danishanda	7/00/0044 4:40:00 514
Client Name: OBG-MS			Date and Tim	e Received:	7/20/2011 1:19:00 PM
Work Order Number: K1107236			Received by:	rsd	
Checklist completed by: 6 5	' <b>) -                                   </b>	- <b>\( 1</b>	Reviewed b	y: AC Initials	7-21-11 Date
	Delivery Method: Hand	d Delivered			
Shipping container/cooler in good condition?	Yes	<b>✓</b>	No 🗌	Not Present	
Custody seals intact on shipping container/coo	ler? Yes		No 🗌	Not Present	
Custody seals intact on sample bottles?	Yes		No 🗌	Not Applicable	
Chain of custody present?	Yes	<b>Y</b>	No 🗆		
Chain of custody signed when relinquished and	d received? Yes	<b>✓</b>	No 🗌		
Chain of custody agrees with sample labels?	Yes	✓	No 🗔		
Samples in proper container/bottle?	Yes	Y	No 🗀		
Sample containers intact?	Yes	~	No 🗔		
Sufficient sample volume for indicated test?	Yes	<b>Y</b>	No 🗔		
All samples received within holding time?	Yes	✓	No		
Container/Temp Blank temperature in complia	nce? Yes	V	No 🗆		
Water - VOA vials have zero headspace?	Yes	✓	No 🗌 🗈 N	lo VOA vials subm	nitted
Water - pH acceptable upon receipt?	Yes		No 🗌	Not Applicable	

Comments:

Corrective Action:



Wednesday, August 03, 2011

Mr. Al Farrell O'Brien & Gere Engineers, Inc. 333 W. Washington St. P.O. Box 4873 Syracuse, NY 13221-4873

TEL: 315-956-6100

Project: FORMER ACCURATE DIE CAST

RE: Analytical Results

Dear Mr. Al Farrell:

Life Science Laboratories, Inc. received 1 sample(s) on 7/25/2011 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Order No.: K1107262

Very truly yours, Life Science Laboratories, Inc.

Anthony Crescenzi

Project Manager



5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

# **Analytical Results**

StateCertNo: 10248

CLIENT O'Brien & Gere Engineers, Inc.

Project: Former Accurate Die Cast

W Order: K1107262 Matrix: WATER

Lab ID:

K1107262-001A

Client Sample ID: Effluent Comp7/25/11

**Collection Date:** 07/25/11 6:00 07/25/11 8:04 Date Received:

Analyte	Result Qual	PQL Units	DF	Date Analyzed		
RESIDUE-FILTERABLE (TDS)		SM 18-20 2540 C				
Residue-filterable (TDS)	690	10 mg/L	1	07/26/11 10:37		
RESIDUE-NON-FILTERABLE (TSS)		SM 18-20 2540 D				
Residue-non-filterable (TSS)	ND	5.0 mg/L	1	07/28/11 12:00		

Qualifiers:

Value exceeds Maximum Contaminant Level

E Value exceeds the instrument calibration range

Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

Print Date: 08/03/11 8:26 Project Supervisor: Anthony Crescenzi Page 1 of 1

K1107262



# Life Science Laboratories, Inc. Central Lab

5854 Butternut Drive East Syracuse, New York 13057 (315) 445-1105 **Chain of Custody** 

Client: OBRIEN & GERE									Ar	alysis	/Meth	od	
Project: Accurate Die						/	/				7	/	
Sampled by: MARTIN Koenneck	40						h /	/				/	
	hone #						$\delta$						
Sample Description						. /	,					/	
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	12							Comments
001 EffluenT	7-25-11	6:00	water	Comp	/	1							
	<u> </u>												
	<u> </u>												
		<u> </u>		·									
												,	
									•				
													-
Relinquished by: Month Kouche	Da	te: <b>3</b> -35.	// Time:	805	Receive	d by:					Da	ate:	Time:
Relinquished by:	Da	te:	Time		Receive	d by:		- Marie Carlos Company			Da	ate:	Time:
Relinquished by:	Da	te:	Time		Receive	d by Lab	:X	<del>}</del>	<u> </u>	2.5	D <sub>Q</sub>	ate:	Time:
Shipment Method: HAND				`	Airbill Nu	umber:			The state of the s		- U - U		

<b>Turnaround Time</b>	Required:
Routine	X

Rush

Cooler Temperature:

Comments:

TEMP 14.4 °C

Original - Laboratory Copy - Client

### Sample Receipt Checklist

Client Name: OBG-MS Work Order Number: K1107262		Date and Ti	me Received:	7/25/2011 8:04:00 AM
	5 - 1 l Date	_ Reviewed	by: Ac	7-25-11 Date
Delivery Meth	hod: <u>Hand Delivered</u>	<u>l</u>		
Shipping container/cooler in good condition?	Yes 🗸	No 🗆	Not Present	
Custody seals intact on shipping container/cooler?	Yes	No 🗌	Not Present	
Custody seals intact on sample bottles?	Yes	No 🗆	Not Applicable	
Chain of custody present?	Yes 🗸	No 🗆		
Chain of custody signed when relinquished and received?	Yes 🗸	No 🗌		
Chain of custody agrees with sample labels?	Yes 🗸	No 🗌		
Samples in proper container/bottle?	Yes 🗸	No 🗌		
Sample containers intact?	Yes 🗸	No 🗌		
Sufficient sample volume for indicated test?	Yes 🗸	No 🗌		
All samples received within holding time?	Yes 🗸	No 🗌		
Container/Temp Blank temperature in compliance?	Yes 🗸	No 🗆		
Water - VOA vials have zero headspace?	Yes	No 🗌	No VOA vials subn	nitted 🗹
Water - pH acceptable upon receipt?	Yes	No 🗌	Not Applicable	<b>Z</b>

Comments:

Corrective Action:



Thursday, August 25, 2011

Mr. Al Farrell O'Brien & Gere Engineers, Inc. 333 W. Washington St. P.O. Box 4873 Syracuse, NY 13221-4873

TEL: 315-956-6100

Project: FORMER ACCURATE DIE CAST

RE: Analytical Results

Dear Mr. Al Farrell:

Life Science Laboratories, Inc. received 3 sample(s) on 8/1/2011 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Order No.: K1108009

Very truly yours, Life Science Laboratories, Inc.

Anthony Crescenzi Project Manager

only a



5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

# **Analytical Results**

StateCertNo: 10248

08/01/11 8:00

08/01/11 9:36

K1108009-001A

CLIENT O'Brien & Gere Engineers, Inc.

Project: Former Accurate Die Cast

Client Sample ID: Effluent Comp 8/1/11

W Order: K1108009 **Collection Date:** Matrix: WATER **Date Received:** 

Analyte	Result Qual	PQL Units	DF	Date Analyzed
RESIDUE-FILTERABLE (TDS)		SM 18-20 2540 C		
Residue-filterable (TDS)	770	10 mg/L	1	08/04/11 11:30
RESIDUE-NON-FILTERABLE (TSS)		SM 18-20 2540 D		
Residue-non-filterable (TSS)	ND	5.0 mg/L	1	08/04/11 13:30

Lab ID:

Qualifiers:

Value exceeds Maximum Contaminant Level

E Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 08/25/11 14:08 Project Supervisor: Anthony Crescenzi Page 1 of 1

# Life Science Laboratories, Inc. 5854 Butternut Drive

**Analytical Results** 

East Syracuse, NY 13057

(315) 445-1105

StateCertNo: 10248

O'Brien & Gere Engineers, Inc. **CLIENT** Former Accurate Die Cast Project:

K1108009 W Order: WATER Matrix:

Inst. ID: MSK\_75 ColumnID: Rtx-VMS

Sample Size 10 mL %Moisture:

TestCode 8260W **Revision:** 08/10/11 10:18

K1108009-002A Lab ID: Client Sample ID: Effluent Grab 8/1/11

08/01/11 8:00 **Collection Date:** 08/01/11 9:36 Date Received:

PrepDate:

R22315

BatchNo: FileID: 1-SAMP-K5079.D

Col Type:

Cor Type:					
Analyte	Result Qual	PQL_	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUND	S BY GC/MS		SW8260B		
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1	08/03/11 11:08
cis-1,2-Dichloroethene	ND	0.50	μg/L	1	08/03/11 11:08
Methylene chloride	ND	2.00	μg/L	1	08/03/11 11:08
Tetrachloroethene	ND	0.50	μg/L	1	08/03/11 11:08
Toluene	ND	0.50	μg/L	1	08/03/11 11:08
trans-1,2-Dichloroethene	ND	0.50	μg/L	1	08/03/11 11:08
Trichloroethene	ND	0.50	μg/L	1	08/03/11 11:08
Surr: 1,2-Dichloroethane-d4	124	75-128	%REC	1	08/03/11 11:08
Surr: 4-Bromofluorobenzene	105	75-125	%REC	1	08/03/11 11:08
Surr: Toluene-d8	94	75-125	%REC	1	08/03/11 11:08

Oualifiers:	*	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
Quantiers.	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Page 1 of 2 Project Supervisor: Anthony Crescenzi **Print Date:** 08/10/11 10:19 566596

### **Analytical Results**

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

StateCertNo: 10248

**CLIENT** 

O'Brien & Gere Engineers, Inc.

Lab ID:

K1108009-003A

Project:

Former Accurate Die Cast

Client Sample ID: Between Carbons Grab 8/1/11

W Order:

K1108009

**Collection Date: Date Received:** 

08/01/11 8:00

Matrix:

WATER

Inst. ID:

Sample Size 10 mL

PrepDate:

08/01/11 9:36

ColumnID: Rtx-VMS

MSK\_75

%Moisture:

BatchNo:

R22315

Revision:

TestCode 8260W 08/10/11 10:18

FileID: 1-SAMP-K5080.D

Col	Type:

Analyte	Result Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUND	S BY GC/MS		SW8260B		
1.1.2.2-Tetrachloroethane	ND	0.50	μg/L	1	08/03/11 11:40
cis-1,2-Dichloroethene	ND	0.50	μg/L	1	08/03/11 11:40
Methylene chloride	ND	2.00	μg/L	1	08/03/11 11:40
Tetrachloroethene	ND	0.50	μg/L	1	08/03/11 11:40
Toluene	ND	0.50	μg/L	1	08/03/11 11:40
trans-1,2-Dichloroethene	ND	0.50	μg/L	1	08/03/11 11:40
Trichloroethene	ND	0.50	μg/L	1	08/03/11 11:40
Surr: 1,2-Dichloroethane-d4	125	75-128	%REC	1	08/03/11 11:40
Surr: 4-Bromofluorobenzene	106	75-125	%REC	1	08/03/11 11:40
Surr: Toluene-d8	96	75-125	%REC	1	08/03/11 11:40

Qualifiers:

Value exceeds Maximum Contaminant Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 08/10/11 10:19

566597

Project Supervisor: Anthony Crescenzi

Page 2 of 2

K1108009



# Life Science Laboratories, Inc. Central Lab

5854 Butternut Drive East Syracuse, New York 13057 (315) 445-1105 **Chain of Custody** 

Client: OBRIEN & GERE					Analysis/Method								
Project: ACCURATE DIE						/	7	7	/	/ /	7		
Sampled by: MARTIN KOENIN	vecke					1 /	h /	/					
	Phone #					1 / 1	5	$\sim 1$	/			/	
Sample Des	scription					1 /	/		8				:
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	12,5%	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						Comments
EffLuenT	8-1-11	8:00	waten	Comp	1	1							
EffluenT	8-1-11	8:00	water	GRAB	3		3						
BETWEEN CARBONS	8-1-11	8:00	water	GRAB	3			3					·
	<u> </u>						·						
													٠
										ļ. <u></u>	· .		
						ļ					ļ		
						ļ							
	<u> </u>					ļ	<u> </u>						
M / I					<u>.</u>								
Relinquished by: Mark Kounke	Da	ite: 8 - /- ,	// Time	:937	Receive	ed by:					Di	ate:	Time:
Relinquished by:	Da	ite:	Time	:	Receive	ed by:					Da	ate:	Time:
Relinquished by:	Da	ite:	Time	:	Receive	d by La	b: ¿	13	5	The state of the s	Da	ate: 0 8-	-01-1 <b>Time</b> 9:36 /:
Shipment Method: HAND				`	Airbill N	umber:	1	5 /				** <u> </u>	
Turnaround Time Populad	<b>3</b>									<b>3-</b>			

Routine Required:  Rush	Comments
Cooler Temperature:	11.0 con Fa

### Sample Receipt Checklist

Client Name: OBG-MS		Date and Tim	e Received:	8/1/2011 9:36:00 AM
Work Order Number: K1108009		Received by:	gis	
Checklist completed by: 65	-   -    Date	Reviewed b	y: AC Initials	&-  -    Date
Delivery Me	ethod: <u>Hand Delivere</u>	<u>a</u>		
Shipping container/cooler in good condition?	Yes 🗸	No 🗌	Not Present	
Custody seals intact on shipping container/cooler?	Yes	No 🗌	Not Present	
Custody seals intact on sample bottles?	Yes	No 🗌	Not Applicable 🗹	
Chain of custody present?	Yes 🗸	No 🗌		
Chain of custody signed when relinquished and received?	Yes 🗸	No 🗌		
Chain of custody agrees with sample labels?	Yes 🗹	No 🗌		
Samples in proper container/bottle?	Yes 🗹	No 🗌		
Sample containers intact?	Yes 🗸	No 🗌		
Sufficient sample volume for indicated test?	Yes 🗸	No 🗌		
All samples received within holding time?	Yes 🗸	No 🗌		
Container/Temp Blank temperature in compliance?	Yes 🗸	No 🗌		
Water - VOA vials have zero headspace?	Yes 🗸	No 🗌 N	lo VOA vials submitted	
Water - pH acceptable upon receipt?	Yes	No 🗌	Not Applicable 🗹	

Comments:

Corrective Action:



Tuesday, September 06, 2011

Mr. Al Farrell O'Brien & Gere Engineers, Inc. 333 W. Washington St. P.O. Box 4873 Syracuse, NY 13221-4873

TEL: 315-956-6100

Project: FORMER ACCURATE DIE CAST

RE: Analytical Results Order No.: K1108106

Dear Mr. Al Farrell:

Life Science Laboratories, Inc. received 1 sample(s) on 8/8/2011 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours, Life Science Laboratories, Inc.

Anthony Crescenzi Project Manager



5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

# **Analytical Results**

StateCertNo: 10248

**CLIENT** O'Brien & Gere Engineers, Inc.

Project: Former Accurate Die Cast

W Order: K1108106 Matrix: WATER

Lab ID:

K1108106-001A

Client Sample ID: Effluent Comp 8/8/11

**Collection Date:** 

08/08/11 11:00

08/08/11 11:23

Matrix: WATER		Date Received:	08/08/11	1 11:23	
Analyte	Result Qual	PQL Units	DF	Date Analyzed	
RESIDUE-FILTERABLE (TDS)		SM 18-20 2540 C			
Residue-filterable (TDS)	740	10 mg/L	1	08/10/11 9:16	
RESIDUE-NON-FILTERABLE (TSS)		SM 18-20 2540 D			
Residue-non-filterable (TSS)	ND	5.0 mg/L	1	08/11/11 12:00	

Qualifiers:

\* Value exceeds Maximum Contaminant Level

Ε Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

Spike Recovery outside accepted recovery limits

Print Date: 09/06/11 14:07 Project Supervisor: Anthony Crescenzi Page 1 of 1



# Life Science Laboratories, Inc. Central Lab

5854 Butternut Drive East Syracuse, New York 13057 (315) 445-1105 **Chain of Custody** 

Client: OBRIEN & GERE							Analysis/Method						
Project: Accurate Die	(Form	er\				/			/-				
Sampled by: MARTIN KOENNECKE		J				/	5/	/	/	/	/	/	
Client Contact: AL FARREL	Phone #						3/		/				
Sample Description					/ h	١ /							
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	1/2							Comments
EfflierT	8-8-11	11:00	WATER	Comp	l	1							
		·											
								<u> </u>					
											<u> </u>		
											· ·		
Relinquished by: Month formative	Da	te:8-8-1	/ Time	11:25	Receive	d by:				•	D	ate:	Time:
Relinquished by:	Da	te:	Time	:	Receive	d by:					Da	ate:	Time:
Relinquished by:	Da	te:	Time		Receive	d by Lat	o: R	P	ula		Da	ate:3-0	
Shipment Method: HAND				· ·	Airbili Nu	ımber:			- 40.04		<del></del>		
Turnaround Time Required: Routine	Comments	<b>:</b> .								s.			

Cooler Temperature: 12.4° on ice

#### Sample Receipt Checklist

Client Name: OBG-MS				Date and Time Received: 8/8/2011 11:23:00 A						
Work Order Number: K110810	6		Received by	y: rsd						
Checklist completed by:	65	<b>G-G-11</b> Date	Reviewed	by:	8 /5-// Date					
	Delivery	Method: Hand Delivered								
Shipping container/cooler in goo	od condition?	Yes 🗹	No 🗌	Not Present						
Custody seals intact on shipping	g container/cooler?	Yes	No 🗌	Not Present						
Custody seals intact on sample	bottles?	Yes	No 🗀	Not Applicable						
Chain of custody present?		Yes 🗸	No 🗌							
Chain of custody signed when r	relinquished and received?	Yes 🗸	No 🗌							
Chain of custody agrees with sa	ample labels?	Yes 🗸	No 🗆							
Samples in proper container/bo	ttle?	Yes 🗸	No 🗆							
Sample containers intact?		Yes 🗹	No 🗌							
Sufficient sample volume for inc	dicated test?	Yes 🗹	No 🗌							
All samples received within hole	ding time?	Yes 🔽	No 🗌							
Container/Temp Blank tempera	ture in compliance?	Yes 🔽	No 🗌							
Water - VOA vials have zero he	eadspace?	Yes	No 🗌	No VOA vials subm	nitted 🗸					
Water - pH acceptable upon re-	ceipt?	Yes	No 🗌	Not Applicable						

Comments:



Wednesday, August 31, 2011

Mr. Al Farrell O'Brien & Gere Engineers, Inc. 333 W. Washington St. P.O. Box 4873 Syracuse, NY 13221-4873

TEL: 315-956-6100

Project: FORMER ACCURATE DIE CAST

RE: Analytical Results Order No.: K1108151

Dear Mr. Al Farrell:

Life Science Laboratories, Inc. received 2 sample(s) on 8/15/2011 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours, Life Science Laboratories, Inc.

Anthony Crescenzi Project Manager



5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

**Analytical Results** 

StateCertNo: 10248

O'Brien & Gere Engineers, Inc. **Project:** 

Former Accurate Die Cast

W Order: K1108151 Matrix: WATER

Lab ID:

K1108151-001A

Client Sample ID: Effluent Comp 8/15/11

**Collection Date:** Date Received:

08/15/11 10:40 08/15/11 11:17

Analyte	Result Qual	PQL Units	DF	Date Analyzed	
RESIDUE-FILTERABLE (TDS)		SM 18-20 2540 C			
Residue-filterable (TDS)	720	10 mg/L	1	08/16/11 10:02	
RESIDUE-NON-FILTERABLE (TSS)		SM 18-20 2540 D			
Residue-non-filterable (TSS)	ND	5.0 mg/L	1	08/18/11 14:00	

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- Analyte detected below the PQL
- Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 08/26/11 15:31 Project Supervisor: Anthony Crescenzi Page 1 of 1

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

**Analytical Results** 

StateCertNo: 10248

**CLIENT** 

O'Brien & Gere Engineers, Inc.

Project:

Former Accurate Die Cast

W Order:

K1108151

Matrix: Inst. ID: WATER

MSK 75

ColumnID: Rtx-VMS

08/24/11 15:44

Sample Size 10 mL %Moisture:

TestCode 8260W

Lab ID:

K1108151-002A Client Sample ID: Effluent Grab 8/15/11

**Collection Date:** 

08/15/11 10:40 08/15/11 11:17

Date Received: PrepDate:

BatchNo: FileID:

R22399

1-SAMP-K5304.D

Rev	ision:
Col	Type:

Analyte	Result Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUND	S BY GC/MS		SW8260B		
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1	08/18/11 13:44
cis-1,2-Dichloroethene	ND	0.50	μg/L	1	08/18/11 13:44
Methylene chloride	ND	2.00	μg/L	1	08/18/11 13:44
Tetrachioroethene	ND	0.50	μg/L	1	08/18/11 13:44
Toluene	ND	0.50	μg/L	1	08/18/11 13:44
trans-1,2-Dichloroethene	ND	0.50	μg/L	1	08/18/11 13:44
Trichloroethene	ND	0.50	μg/L	1	08/18/11 13:44
Surr: 1,2-Dichloroethane-d4	114	75-128	%REC	1	08/18/11 13:44
Surr: 4-Bromofluorobenzene	111	75-125	%REC	1	08/18/11 13:44
Surr: Toluene-d8	92	75-125	%REC	1	08/18/11 13:44

Q	ual	ifie	rs
---	-----	------	----

- Value exceeds Maximum Contaminant Level
- Value exceeds the instrument calibration range
- Analyte detected below the PQL
- Prim./Conf. column %D or RPD exceeds limit
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- Spike Recovery outside accepted recovery limits

K1108151



# Life Science Laboratories, Inc. Central Lab

5854 Butternut Drive East Syracuse, New York 13057 (315) 445-1105 **Chain of Custody** 

Client: OBRIEN & GERE						Analysis/Method							
Project: Accurate Die						/	/	7				/	
Sampled by: MARTIN Koennecke	9					1 /	ω/				/	. /	
	Phone #					1 / <i>j</i>	9'/		/				
Sample Description						1 25	826	3/					
Sample Location		Time Collected			No. of Containers	/ K	\ \\ \partial \chi_0^2 \chi_0^2	<u> </u>					Comments
Effluent	8-15-11	1040	water	Comp	1	l							
EffLuenT	8-15-11	1040	water	GRAB	3		3						
		<b></b>				·							
						ļ							-
							*****						
										<u> </u>			
	<del>                                     </del>					ļ				<u> </u>			
	•	<u>                                     </u>											
			<u> </u>		<u> </u>								
												<u> </u>	
Relinquished by: Mark Kornache	Da	ite: $g$ - $/5$	Time	:1120	Receive	ed by:					. D	ate:	Time:
Relinquished by:	Da	ite:	Time	:	Receive	ed by:					D	ate:	Time:
Relinquished by:	Da	ite:	Time	:	Receive	ed by Lal	p: R(	7)	har		ß	용=15- ate:	Time:
Shipment Method: HAND					Airbill N	umber:			7/ 0/				
Turnaround Time Required:	Comments	••								٠.		•	

Routine	uired: <		
Cooler Temperature:	8.800	00	ice

#### Sample Receipt Checklist

Client Name: OBG-MS		Date and Tim	ne Received: 8/15/2011 11:17:00 AM
Work Order Number: K1108151		Received by:	rsd
Initials	Date  Method: Hand Delivered	Reviewed b	Date 6-16-11
Delivery	wethod. Hand Delivered		
Shipping container/cooler in good condition?	Yes 🗹	No 🗌	Not Present
Custody seals intact on shipping container/cooler?	Yes	No 🗆	Not Present 🔽
Custody seals intact on sample bottles?	Yes	No 🗌	Not Applicable 🗹
Chain of custody present?	Yes 🗸	No 🗌	
Chain of custody signed when relinquished and received?	Yes 🗸	No 🗆	
Chain of custody agrees with sample labels?	Yes 🗸	No 🗌	
Samples in proper container/bottle?	Yes 🗸	No 🗌	
Sample containers intact?	Yes 🗸	No 🗌	
Sufficient sample volume for indicated test?	Yes 🗸	No 🗌	
All samples received within holding time?	Yes 🗸	No 🗆	
Container/Temp Blank temperature in compliance?	Yes 🗸	No 🗌	
Water - VOA vials have zero headspace?	Yes 🗸	No 🗌 N	lo VOA vials submitted
Water - pH acceptable upon receipt?	Yes	No 🗌	Not Applicable ✓

Comments:



Tuesday, September 06, 2011

Mr. Al Farrell O'Brien & Gere Engineers, Inc. 333 W. Washington St. P.O. Box 4873 Syracuse, NY 13221-4873

TEL: 315-956-6100

Project: FORMER ACCURATE DIE CAST

RE: Analytical Results Order No.: K1108289

Dear Mr. Al Farrell:

Life Science Laboratories, Inc. received 1 sample(s) on 8/22/2011 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours, Life Science Laboratories, Inc.

Anthony Crescenzi Project Manager



5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

# **Analytical Results**

StateCertNo: 10248

**CLIENT** O'Brien & Gere Engineers, Inc.

Project: Former Accurate Die Cast

W Order: K1108289 Matrix: WATER Lab ID:

K1108289-001A

Client Sample ID: Effluent Comp 8/22/11

Collection Date:
Date Received:

08/22/11 10:30 08/22/11 10:40

Analyte	Result Qual	PQL Units	DF	Date Analyzed
RESIDUE-FILTERABLE (TDS)		SM 18-20 2540 C		····
Residue-filterable (TDS)	750	10 mg/L	1	08/24/11 8:33
RESIDUE-NON-FILTERABLE (TSS)		SM 18-20 2540 D		
Residue-non-filterable (TSS)	ND	5.0 mg/L	1	08/25/11 10:00

Qualifiers:

\* Value exceeds Maximum Contaminant Level

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

Print Date: 09/06/11 14:08 Project Supervisor: Anthony Crescenzi Page 1 of 1



# Life Science Laboratories, Inc. Central Lab

5854 Butternut Drive
East Syracuse, New York 13057
(315) 445-1105

**Chain of Custody** 

Client: OBRIEN & GERE				,		Analysis/Method							
Project: ACCURATE DIE		***************************************				7	/	7		/			
Sampled by: MARTIN KOENIVE	ke						us /						
Client Contact: AL FARREL Phone #					/£								
Sample Description					/ sh	,							
Sample Location		Time Collected	Sample Matrix		No. of Containers	/R							Comments
F-66 Luent	8-22-11	10:30	water	Comp		ı							
													·.
	<u> </u>												
													•
											· ·		
									<u> </u>				
	<u> </u>			ļ							· ·		· · · · · · · · · · · · · · · · · · ·
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780	·												
										<u></u>			
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Relinquished by: Math Kommune	Da	ite: 8-22.	// Time	10:40	Receive	d by:					. Da	ate:	Time:
Relinquished by:	Da	ite:	Time	:	Receive	d by:					D	ate:	Time:
Relinquished by:	Da	ite:	Time	:	Receive	d by Lat	): /C	7	5_		D	ate\$-22-	11 Time/0:40
Shipment Method: HAND				`	Airbill N	umber:		<del>)</del>				<u> </u>	
Turnaround Time Required:	omments	:			•		•••			٠.			

Turnaround Time Required:  Routine  Rush	Comments
Cooler Temperature:	11000 on Ice

#### Sample Receipt Checklist

Client Name: OBG-MS		Date and Tir	ne Received:	8/22/2011 10:40:00 AM
Work Order Number: K1108289		Received by	: gis	
Checklist completed by:  Initials  65	312-((	Reviewed	by:	8-274/
Delivery M	lethod: <u>Hand Delivered</u>	!		
Shipping container/cooler in good condition?	Yes 🗸	No 🗌	Not Present	
Custody seals intact on shipping container/cooler?	Yes	No 🗌	Not Present	
Custody seals intact on sample bottles?	Yes	No 🗌	Not Applicable	
Chain of custody present?	Yes 🔽	No 🗌		
Chain of custody signed when relinquished and received?	Yes 🗸	No 🗌		
Chain of custody agrees with sample labels?	Yes 🗹	No 🗌		
Samples in proper container/bottle?	Yes 🗸	No 🗌		
Sample containers intact?	Yes 🗸	No $\square$		
Sufficient sample volume for indicated test?	Yes 🗹	No 🗌		
All samples received within holding time?	Yes 🗹	No 🗌		
Container/Temp Blank temperature in compliance?	Yes 🗸	No 🗌		
Water - VOA vials have zero headspace?	Yes	No 🗌	No VOA vials submi	tted 🗸
Water - pH acceptable upon receipt?	Yes	No 🗌	Not Applicable	

Comments:



Tuesday, September 06, 2011

Mr. Al Farrell O'Brien & Gere Engineers, Inc. 333 W. Washington St. P.O. Box 4873 Syracuse, NY 13221-4873

TEL: 315-956-6100

Project: FORMER ACCURATE DIE CAST

RE: Analytical Results

Dear Mr. Al Farrell:

Life Science Laboratories, Inc. received 1 sample(s) on 8/29/2011 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Order No.: K1108378

Very truly yours, Life Science Laboratories, Inc.

Anthony Crescenzi Project Manager



Project:

Matrix:

W Order: K1108378

WATER

### Life Science Laboratories, Inc.

5854 Butternut Drive

Former Accurate Die Cast

CLIENT O'Brien & Gere Engineers, Inc.

East Syracuse, NY 13057

(315) 445-1105

# **Analytical Results**

StateCertNo: 10248

Lab ID:

K1108378-001A

Client Sample ID: Effluent Comp 8/29/11

**Collection Date:** Date Received:

08/29/11 7:30 08/29/11 8:21

Analyte	Result Qual	PQL Units	DF	Date Analyzed	
RESIDUE-FILTERABLE (TDS)		SM 18-20 2540 C			
Residue-filterable (TDS)	720	10 mg/L	1	08/29/11 11:00	
RESIDUE-NON-FILTERABLE (TSS)		SM 18-20 2540 D			
Residue-non-filterable (TSS)	ND	5.0 mg/L	1	09/01/11 12:00	

Qualifiers:

Value exceeds Maximum Contaminant Level

E Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

Print Date: 09/06/11 14:10 Project Supervisor: Anthony Crescenzi Page 1 of 1



# Life Science Laboratories, Inc. Central Lab

5854 Butternut Drive East Syracuse, New York 13057 (315) 445-1105

# **Chain of Custody**

Client: OBRIEN & GERE	Client: OBRIEN & GERE								Ar	nalysis	/Meth	od	
Project: Accurate Die						/	/	7	/	/			
Sampled by: MARTIN KOENNECKE								/		/		/	
	hone #					1 / É	$\gtrsim$ \	/	/				
Sample Des	cription	1				1/5					/ /		
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	125		/ ·					Comments
001 EffLuenT	8-29-11	7:30	WATER		1	1							
	<u> </u>										·		
					ļ								
		ļ											
		ļ											
	ļ	ļ								ļ			
	<u> </u>												
										ļ			
Relinquished by: Math Kunhine	Da	ate: 8-29-	// Time	:8/25	Receive	d by:					D	ate:	Time:
Relinquished by:	Da	ate:	Time	) <b>:</b>	Receive	d by:					D	ate:	Time:
Relinquished by:	Da	ate:	Time	:	Receive	d by Lal	b: / C	2	5		D	<b>ate</b> ;8-2	29-11 <b>Time:</b> 21 IN
Shipment Method: HAND				`	Airbill N	umber:	()	<del>''                                   </del>				,	0 4
Turnaround Time Required:	`ommonto							······································		···			÷

Routine X
Rush

Cooler Temperature: 10.0

Comments:

Original - Laboratory Copy - Client

# Sample Receipt Checklist

Client Name: OBG-MS		Date and Time Received:	8/29/2011 8:21:00 AM
Work Order Number: K1108378		Received by: gis	
Checklist completed by:	8-29-11 Date	Reviewed by:	9-29-11 Date
Delivery	Method: Hand Delivered	L.	
Shipping container/cooler in good condition?	Yes 🗸	No Not Present	]
Custody seals intact on shipping container/cooler?	Yes	No Not Present	
Custody seals intact on sample bottles?	Yes	No ☐ Not Applicable ☑	
Chain of custody present?	Yes 🔽	No 🗌	
Chain of custody signed when relinquished and received?	Yes 🗸	No 🗌	
Chain of custody agrees with sample labels?	Yes 🗸	No 🗌	
Samples in proper container/bottle?	Yes 🗸	No 🗆	
Sample containers intact?	Yes 🗸	No 🗆	
Sufficient sample volume for indicated test?	Yes 🗸	No 🗌	
All samples received within holding time?	Yes 🗹	No 🗆	
Container/Temp Blank temperature in compliance?	Yes 🗹	No 🗌	
Water - VOA vials have zero headspace?	Yes	No OA vials subm	nitted 🔽
Water - pH acceptable upon receipt?	Yes	No ☐ Not Applicable ☑	

Comments:



Tuesday, September 20, 2011

Mr. Al Farrell O'Brien & Gere Engineers, Inc. 333 W. Washington St. P.O. Box 4873 Syracuse, NY 13221-4873

TEL: 315-956-6100

Project: FORMER ACCURATE DIE CAST

RE: Analytical Results

Dear Mr. Al Farrell:

Life Science Laboratories, Inc. received 3 sample(s) on 9/8/2011 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Order No.: K1109054

Very truly yours,

Life Science Laboratories, Inc.

Anthony Crescenzi Project Manager



5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

# **Analytical Results**

StateCertNo: 10248

CLIENT O'Brien & Gere Engineers, Inc.

Project: Former Accurate Die Cast

W Order: K1109054 Matrix: WATER

Lab ID:

K1109054-001A

Client Sample ID: Effluent Comp 9/8/11

**Collection Date:** Date Received:

09/08/11 9:00 09/08/11 9:49

WAILK		Date Received.	09/06/11	7.47
Analyte	Result Qual	PQL Units	DF	Date Analyzed
RESIDUE-FILTERABLE (TDS)		SM 18-20 2540 C		
Residue-filterable (TDS)	770	10 mg/L	1	09/08/11 11:50
RESIDUE-NON-FILTERABLE (TSS)		SM 18-20 2540 D		
Residue-non-filterable (TSS)	ND	5.0 mg/L	1	09/12/11 14:00

Qualifiers:

Value exceeds Maximum Contaminant Level

E Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

Print Date: 09/20/11 12:07 Project Supervisor: Anthony Crescenzi Page 1 of 1

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

**Analytical Results** 

StateCertNo: 10248

O'Brien & Gere Engineers, Inc. CLIENT **Project:** 

Former Accurate Die Cast

W Order: K1109054 WATER Matrix:

MSK 75 Inst. ID: ColumnID: Rtx-VMS

**Revision:** 09/12/11 14:55 Sample Size 10 mL

%Moisture: TestCode 8260W Lab ID:

K1109054-002A Client Sample ID: Effluent Grab 9/8/11

**Collection Date: Date Received:** 

09/08/11 9:00 09/08/11 9:49

PrepDate:

BatchNo:

R22541

FileID:

1-SAMP-K5587.D

Col Type:

SW8260B		
μg/L	1	09/09/11 18:25
µg/L	1	09/09/11 18:25
μg/L	1	09/09/11 18:25
μg/L	1	09/09/11 18:25
%REC	1	09/09/11 18:25
%REC	1 .	09/09/11 18:25
%REC	1	09/09/11 18:25
	µg/L µg/L µg/L µg/L µg/L µg/L %REC %REC	μg/L 1 %REC 1

Oualifiers:	*	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
Quanners.	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J.	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

# LSL

# Life Science Laboratories, Inc.

**Analytical Results** 

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

CLIENT

W Order:

Revision:

Project:

O'Brien & Gere Engineers, Inc.

Former Accurate Die Cast

K1109054 WATER

Matrix: WATER Inst. ID: MSK\_75

ColumnID: Rtx-VMS

09/12/11 14:55

Sample Size 10 mL

%Moisture: TestCode 8260W Lab ID:

K1109054-003A

Client Sample ID: Between Carbons Grab 9/8/11

**Collection Date:** 

09/08/11 9:00

Date Received:

09/08/11 9:49

PrepDate:

BatchNo:

R22541

FileID:

1-SAMP-K5588.D

Col Type:		201200-0			
Analyte	Result Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMP	OUNDS BY GC/MS		SW8260B		
1.1.2.2-Tetrachloroethane	ND	0.50	μg/L	1	09/09/11 18:57
cis-1,2-Dichloroethene	· ND	0.50	μg/L	1	09/09/11 18:57
Methylene chloride	ND	2.00	μg/L	1	09/09/11 18:57
Tetrachloroethene	ND	0.50	μg/L	. 1	09/09/11 18:57
Toluene	ND	0.50	μg/L	1	09/09/11 18:57
trans-1.2-Dichloroethene	ND	0.50	μg/L	1	09/09/11 18:57
Trichloroethene	ND	0.50	μg/L	1	09/09/11 18:57
Surr: 1,2-Dichloroethane-d4	106	75-128	%REC	1	09/09/11 18:57
Surr: 4-Bromofluorobenzene	112	75-125	%REC	1	09/09/11 18:57
Surr Toluene d8	104	75-125	%REC	1	09/09/11 18:57

Oi	ral	11	ia	200

- Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Page 2 of 2

Print Date: 09/12/11 14:56

571481

Project Supervisor: Anthony Crescenzi



# Life Science Laboratories, Inc. Central Lab

5854 Butternut Drive East Syracuse, New York 13057 (315) 445-1105 **Chain of Custody** 

Client: OBPIEN & CENE					·	Т -							***************************************
O DOICE & ISERE									Α	nalysis	s/Meth	od	
Project: Accurate Die						/	/	/ /	//	/ /		/. /	
Sampled by: MARTIN KOENNY	ec ka					1 /	n /	/	/	/	/	/	
Client Contact: AL FARREL	Phone #				· · · · · · · · · · · · · · · · · · ·	1/6	$\vec{\sigma}_{i} \setminus \vec{\sigma}_{i}$					/	
Sample D	escription	1				1/2	) 00°		<b>8</b> /			/	
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	1/ 1/	\ 000					/	Comments
EffLuent	9-8-11	9:00	water	Comp	i	1							
Effluent	9-8-11	9:00	WATER	GRAB	3		3						
BETWEEN CARBONS	9-8-11		WATER		3			3		:			
							,		:				
	-										٠.		-
					٠								· · · · · · · · · · · · · · · · · · ·
Relinquished by: Month Lounke	Da	te: 9-8-	// Time	9:50	Receive	d by:		Her Silver	Le digital in which is	Anna de Austria de Angelon	D:	ate:	Time:
Relinquished by:	Da		Time		Receive								*
Relinquished by:	Da	te:	Time		Receive			7 6	and the same of the same of	XIIIO		ate:	Time:
Shipment Method: HAND					Airbill Nu		· · · ·	) > <	<u> </u>	and the state of t	- ∂Da	at <b>6:</b> ∂ - 1	19:Time: IN
Turnaround Time Required:  RoutineX	Comments		· .		Anom 140	iiibei.			1	٠.			

Routine X Rush Cooler Temperature: \_\_\_\_\_//, 5 \*-

Original - Laboratory Copy - Client

#### Sample Receipt Checklist

Client Name: OBG-MS		Date and Time Received:	9/8/2011 9:49:00 AM
Work Order Number: K1109054		Received by: gis	
	9-8-11 ate	Reviewed by:	5-6-1/ Date
Delivery Meth	od: <u>Hand Delivered</u>		
Shipping container/cooler in good condition?	Yes 🗸	No Not Present	
Custody seals intact on shipping container/cooler?	Yes	No Not Present	
Custody seals intact on sample bottles?	Yes	No ☐ Not Applicable ✓	
Chain of custody present?	Yes 🗸	No 🗌	
Chain of custody signed when relinquished and received?	Yes 🗸	No 🗀	
Chain of custody agrees with sample labels?	Yes 🗸	No 🗌	
Samples in proper container/bottle?	Yes 🗸	No 🗌	
Sample containers intact?	Yes 🗸	No 🗌	
Sufficient sample volume for indicated test?	Yes 🗸	No 🗆	
All samples received within holding time?	Yes 🗸	No 🗌	
Container/Temp Blank temperature in compliance?	Yes 🗸	No 🗔	
Water - VOA vials have zero headspace?	Yes 🗸	No COA vials submitted	d
Water - pH acceptable upon receipt?	Yes	No Not Applicable	

Comments:



Tuesday, September 20, 2011

Mr. Al Farrell O'Brien & Gere Engineers, Inc. 333 W. Washington St. P.O. Box 4873 Syracuse, NY 13221-4873

TEL: 315-956-6100

Project: FORMER ACCURATE DIE CAST

RE: Analytical Results Order No.: K1109089

Dear Mr. Al Farrell:

Life Science Laboratories, Inc. received 1 sample(s) on 9/12/2011 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours, Life Science Laboratories, Inc.

Anthony Crescenzi Project Manager



5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

**Analytical Results** 

StateCertNo: 10248

CLIENT O'Brien & Gere Engineers, Inc.

Project: Former Accurate Die Cast

W Order: K1109089 Matrix: WATER

Lab ID:

K1109089-001A

Client Sample ID: Effluent Comp 9/12/11

**Collection Date:** 

09/12/11 7:30

Date Received: 09/12/11 12:43

Analyte	Result Qual	PQL Units	DF	Date Analyzed			
RESIDUE-FILTERABLE (TDS) Residue-filterable (TDS)	770	<b>SM 18-20 2540 C</b> 10 mg/L	1	09/15/11 11:09			
RESIDUE-NON-FILTERABLE (TSS) Residue-non-filterable (TSS)	ND	SM 18-20 2540 D					
residue-non-interable (133)	עא	5.0 mg/L	1	09/18/11 12:00			

Qualifiers:

Print Date: 09/20/11 12:13

Project Supervisor: Anthony Crescenzi

Page 1 of 1

<sup>\*</sup> Value exceeds Maximum Contaminant Level

Value exceeds the instrument calibration range

Analyte detected below the PQL

Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits



# Life Science Laboratories, Inc. Central Lab

5854 Butternut Drive East Syracuse, New York 13057 (315) 445-1105 **Chain of Custody** 

Client: OBRIEN & GERE	MANAGE OF THE STREET,		***************************************	····			<u></u>		Ar	nalysis	/Meth	od	
Project: ACCURATE DIE						/	1		/		7		
Sampled by: MARTIN KOEM	12KP				· · · · · · · · · · · · · · · · · · ·	1 /	4/	/	/	/		/1	
Client Contact: AL FARREL Phone #							5			/		/ [	
Sample Description						1/5	/m//						
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp.	No. of Containers	I/ N							Comments
Effluent	9-12-11	730	WATER		T	1							
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							·						
													***************************************
	t et												
Relinquished by: Martikashe	Da	ate: 9-12	୍ୟା Time	:12:47	Receive	d by:					D:	ate:	Time:
Relinquished by:	Da	ate:	Time	:	Receive	d by:					D	ate:	Time:
Relinquished by:	Da	ate:	Time	:	Receive		o: <i>[</i>	7/	/				
Shipment Method: HAND					Airbill N	·		file	e <u>sspa</u>			ate: 9-16	2-// Time: 12:43
Turnaround Time Required:	omments	<b>S</b> :			<b></b>		•••			N.		:	

#### Sample Receipt Checklist

Client Name: OBG-MS		Date and Time Received:	9/12/2011 12:43:00 PM
Work Order Number: K1109089		Received by: rsd	
Checklist completed by:	9-/3-// Date	Reviewed by:	9-13-11 Date
Delive	ry Method: <u>Hand Delivered</u>		
Shipping container/cooler in good condition?	Yes <b>✓</b>	No Not Present	
Custody seals intact on shipping container/cooler?	Yes	No Not Present	
Custody seals intact on sample bottles?	Yes	No Not Applicable	✓
Chain of custody present?	Yes 🗸	No 🗆	
Chain of custody signed when relinquished and received?	Yes 🗸	No 🗆	
Chain of custody agrees with sample labels?	Yes 🗸	No 🗆	
Samples in proper container/bottle?	Yes 🗸	No 🗌	
Sample containers intact?	Yes 🗸	No 🗌	
Sufficient sample volume for indicated test?	Yes 🗸	No 🗆	
All samples received within holding time?	Yes 🗹	No 🗆	
Container/Temp Blank temperature in compliance?	Yes 🗸	No 🗌	
Water - VOA vials have zero headspace?	Yes	No OA vials sub	mitted 🗹
Water - pH acceptable upon receipt?	Yes	No Not Applicable	<b>✓</b>

Comments:



Friday, October 14, 2011

Mr. Al Farrell O'Brien & Gere Engineers, Inc. 333 W. Washington St. P.O. Box 4873 Syracuse, NY 13221-4873

TEL: 315-956-6100

Project: FORMER ACCURATE DIE CAST

RE: Analytical Results Order No.: K1109213

Dear Mr. Al Farrell:

Life Science Laboratories, Inc. received 2 sample(s) on 9/19/2011 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours, Life Science Laboratories, Inc.

arty C

Anthony Crescenzi

Project Manager



5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

# **Analytical Results**

StateCertNo: 10248

CLIENT O'Brien & Gere Engineers, Inc.

Project: Former Accurate Die Cast

W Order: K1109213 Matrix: WATER Lab ID: K1109213-001A

Client Sample ID: Effluent Comp 9/19/11 07:00

**Collection Date:** 09/19/11 7:00 **Date Received:** 09/19/11 13:20

Analyte	Result Qual	PQL Units	DF	Date Analyzed
RESIDUE-FILTERABLE (TDS)		SM 18-20 2540 C		
Residue-filterable (TDS)	700	10 mg/L	1	09/22/11 10:57
RESIDUE-NON-FILTERABLE (TSS)		SM 18-20 2540 D		
Residue-non-filterable (TSS)	ND	5.0 mg/L	1	09/22/11 13:30

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
  - S Spike Recovery outside accepted recovery limits

Print Date: 10/14/11 11:44 Project Supervisor: Anthony Crescenzi Page 1 of 1

# Life Science Laboratories, Inc. 5854 Butternut Drive

**Analytical Results** 

East Syracuse, NY 13057

(315) 445-1900

StateCertNo: 10248

**CLIENT** 

O'Brien & Gere Engineers, Inc.

Lab ID:

K1109213-002A

Project:

Former Accurate Die Cast

Client Sample ID: Effluent Grab 9/19/11 07:00

W Order:

K1109213

**Collection Date: Date Received:** 

09/19/11 7:00

Matrix:

WATER

09/19/11 13:20

Inst. ID:

MSK 75

Sample Size 10 mL

PrepDate:

R22717

ColumnID: Rtx-VMS 10/05/11 14:36

%Moisture:

TestCode 8260W

BatchNo: FileID:

1-SAMP-K5747.D

Revision: Cal Tymas

Col Type:					
Analyte	Result Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUND	S BY GC/MS		SW8260B		
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1	09/22/11 11:11
cis-1.2-Dichloroethene	ND	0.50	μg/L	1	09/22/11 11:11
,	ND	2.00	μg/L	1	09/22/11 11:11
Methylene chloride	ND	0.50	μg/L	1	09/22/11 11:11
Tetrachloroethene	ND	0.50	μg/L	1	09/22/11 11:11
Toluene	ND	0.50	μg/L	1	09/22/11 11:11
trans-1,2-Dichloroethene	ND	0.50	μg/L	1	09/22/11 11:11
Trichloroethene	118	75-128	%REC	1	09/22/11 11:11
Surr: 1,2-Dichloroethane-d4	• • •		%REC	1	09/22/11 11:11
Surr: 4-Bromofluorobenzene	110	75-125		1	09/22/11 11:11
Surr: Toluene-d8	101	75-125	%REC	'	09/22/11 11.11

Qualifiers
------------

- Value exceeds Maximum Contaminant Level
- Value exceeds the instrument calibration range
- Analyte detected below the PQL
- Prim./Conf. column %D or RPD exceeds limit
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
  - Spike Recovery outside accepted recovery limits

**Print Date:** 10/05/11 14:40

575310

Project Supervisor: Anthony Crescenzi

Page 1 of 1

#### Sample Receipt Checklist

Client Name: OBG-MS		Date and Time	e Received:	9/19/2011 1:20:00 PM
Work Order Number: K1109213		Received by:	rsd	
Checklist completed by: 65 Date	19-11	Reviewed by	/:	9-19-11 Date
Delivery Method	d: Hand Delivered			
Shipping container/cooler in good condition?	Yes 🗹	No 🗌	Not Present	
Custody seals intact on shipping container/cooler?	Yes	No 🗌	Not Present	
Custody seals intact on sample bottles?	Yes	No 🗌	Not Applicable 🗹	
Chain of custody present?	Yes 🗸	No 🗌		
Chain of custody signed when relinquished and received?	Yes 🗸	No 🗌		
Chain of custody agrees with sample labels?	Yes 🗸	No 🗌		
Samples in proper container/bottle?	Yes 🗸	No 🗌		
Sample containers intact?	Yes 🗸	No 🗌		
Sufficient sample volume for indicated test?	Yes 🗸	No 🗀		
All samples received within holding time?	Yes 🗸	No 🗆		
Container/Temp Blank temperature in compliance?	Yes 🗸	No 🗌		
Water - VOA vials have zero headspace?	Yes 🗸	No 🗌 N	o VOA vials submiti	ted
Water - pH acceptable upon receipt?	Yes	No 🗌	Not Applicable 🗹	

Comments:



Cooler Temperature: 5.8°C on ice

# Life Science Laboratories, Inc. Central Lab

5854 Butternut Drive East Syracuse, New York 13057 (315) 445-1105 **Chain of Custody** 

Client: OBRIEN & GERE										Aı	nalysis	/Meth	od	
Project: For	rmen Accurate I	Dre					7			/		/ /	'· /	
Sampled by:	MARTIN KOENNE						] /	, /						
Client Contact:	AL FARREL	Phone #					] / i	\Z\_	/					
Sample Description							755 7DS		0 /					
Sar	nple Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	1 K	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						Comments
OCIA	EffLienT	9-19-11		worker	Comp	1	1							
PAOCE	EALVERT	9-19-11	7:00	wäter	GRAB	3		3	ļ					
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Relinquished by:		Da	,	Time		Receive	ed by:					D	ate:	Time:
Relinquished by:		Da	ite:	Time	e:	Receive	ed by Lai	p: /	20	6		····	ate: 9//	
Shipment Method:	HAND				,	Airbill N	umber:			vaalle?				<u>17/1 /3.20</u>
Turnaround Time	Required:	Comments	:								5 r			



Thursday, October 27, 2011

Mr. Al Farrell O'Brien & Gere Engineers, Inc. 333 W. Washington St. P.O. Box 4873 Syracuse, NY 13221-4873

TEL: 315-956-6100

Project: FORMER ACCURATE DIE CAST

RE: Analytical Results Order No.: K1109300

Dear Mr. Al Farrell:

Life Science Laboratories, Inc. received 1 sample(s) on 9/26/2011 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours, Life Science Laboratories, Inc.

Anthony Crescenzi Project Manager



5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

# **Analytical Results**

StateCertNo: 10248

**CLIENT** O'Brien & Gere Engineers, Inc.

Project: Former Accurate Die Cast

W Order: K1109300 Matrix: WATER Lab ID:

K1109300-001A

Client Sample ID: Effluent Comp 9/26/11

Collection Date: Date Received:

09/26/11 8:05 09/26/11 8:32

Analyte	Result Qual	PQL Units	DF	Date Analyzed
RESIDUE-FILTERABLE (TDS)		SM 18-20 2540 C		
Residue-filterable (TDS)	780	10 mg/L	1	09/26/11 8:24
RESIDUE-NON-FILTERABLE (TSS)		SM 18-20 2540 D		
Residue-non-filterable (TSS)	ND	5.0 mg/L	1	09/26/11 12:00

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
  - S Spike Recovery outside accepted recovery limits

Print Date: 10/27/11 12:34 Project Supervisor: Anthony Crescenzi Page 1 of 1

#### Sample Receipt Checklist

Client Name: OBG-MS	. •	Date and Time Received:	9/26/2011 8:32:00 AM
Work Order Number: K1109300		Received by: gis	
Volk Gladi Hambol. Ki 19990		J.	
Checklist completed by: 6 5	9-26-11	Reviewed by:	9-26-11 Date
Initials	Date	Initials	Date
Deliver	ry Method: <u>Hand Delivered</u>		
Shipping container/cooler in good condition?	Yes 🔽	No Not Present	
Custody seals intact on shipping container/cooler?	Yes	No ☐ Not Present ✓	
Custody seals intact on sample bottles?	Yes	No ☐ Not Applicable ✓	
Chain of custody present?	Yes 🗹	No 🗌	
Chain of custody signed when relinquished and received?	Yes 🗸	No 🗌	
Chain of custody agrees with sample labels?	Yes 🗹	No 🗌	
Samples in proper container/bottle?	Yes 🗸	No 🗌	
Sample containers intact?	Yes 🗹	No 🗌	
Sufficient sample volume for indicated test?	Yes 🗸	No 🗌	
All samples received within holding time?	Yes 🗸	No 🗌	
Container/Temp Blank temperature in compliance?	Yes 🗸	No 🗌	
Water - VOA vials have zero headspace?	Yes	No OA vials submitte	ed 🗹
Water - pH acceptable upon receipt?	Yes	No ☐ Not Applicable ✓	

Comments:



Routine Rush

Cooler Temperature: 1010

# Life Science Laboratories, Inc. Central Lab

5854 Butternut Drive East Syracuse, New York 13057 (315) 445-1105 **Chain of Custody** 

Client: OBRIEN & GERE									Ar	nalysis	/Meth	od	
Project: FORMACCURATE DIE						/	/	/	/				
Sampled by: MARTIN Koennecke							9/				/		
Client Contact: AL FARREL Phone #							105		/		/		
Sample Des	cription	1				1/4							
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	I/ /\							Comments
EffLuenT	9-26-11	8:05	WATER	Comp									
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Relinquished by: Marti frenchil	Da	ite:9-2(	-// Time	: 8:35	Receive	d by:					D	ate:	Time:
Relinquished by:	Da	ite:	Time	:	Receive	d by:					D	ate:	Time:
Relinquished by:	Da	ite:	Time	:	Receive	d by Lat	p: /	75	-5		D	ate:25	
Shipment Method: HAND				`	Airbill N	umber:		<del>) /-</del>			** /* /*		
Turnaround Time Required:	comments	· · · · · · · · · · · · · · · · · · ·					·		-	٠.			