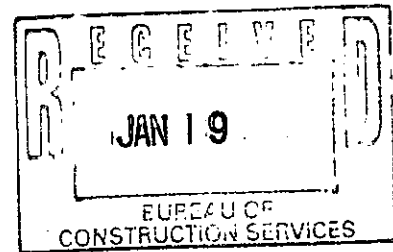


report. hw 734052. 2001.
Site management. pdf



O'BRIEN & GERE
ENGINEERS, INC.



January 15, 2001

Mr. David Crosby, P.E.
Bureau of Construction Services - Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/25463 #2

Dear Mr. Crosby:

This letter presents the status of groundwater treatment plant operations for the former Accurate Die Casting site in Fayetteville, New York for December 2001. This report 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:

1. As of January 2, 2001, a total of 39,039,510 gallons of groundwater has been treated since startup on February 5, 1996. Since December 1, 2000, 562,920 gallons of groundwater was treated; 413,350 gallons from recovery well RW-1, and 149,570 gallons from recovery well RW-2. No ground water was recovered from the sump located outside the northeast corner of the building or from the groundwater collection trench constructed in the former VOC/PAH/PCB Soils Area.
2. 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 in December 2000 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

Activities Scheduled:

1. Continued operation of the ground water recovery and treatment system, including SPDES monitoring.



O'Brien & Gere Engineers, Inc., an O'Brien & Gere company
5000 Brittonfield Parkway / P.O. Box 4873, Syracuse, New York 13221-4873
(315) 437-6100 / FAX (315) 463-7554 • [http:// www.obg.com](http://www.obg.com)
... and offices in major U.S. cities

Mr. David Crosby, P.E.

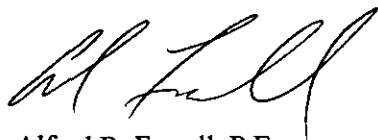
January 15, 2001

Page 2

If you have any questions regarding this report, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

A handwritten signature in black ink, appearing to read 'Alfred R. Farrell'.

Alfred R. Farrell, P.E.
Senior Project Engineer

I:\DIV71\PROJECTS\2488\23123\2_CORRES\9-2000MOR.doc

Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation - NYSDOH
H. Hamel - NYSDOH
M. Peters, Esq - LeBoeuf, Lamb, Greene & MacRae

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

Analyte (units)	Monitoring Requirements				Effluent	Effluent	Effluent	Effluent
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type	12/05/2000	12/06/2000	12/07/2000	12/12/2000
Flow (GPD)	Monitor	150000	Continuous	Meter	17710	---	17640	17520
pH (SU)	6.5 - 8.5		2/Week	Grab	8.12	---	8.12	8.14
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.	---	5 U	---	5 U
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.	---	820	---	810
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	---	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	---	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	0.0002 U	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	0.01 U	---	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	0.50 U	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	10 U	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.

--- - Not analyzed, NA - Data not available

U - Not Detected, J - Estimated

TOD = 1.5 X CBOD5 + 4.5 X TKN

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

Analyte	Effluent 12/14/2000	Effluent 12/19/2000	Effluent 12/20/2000	Effluent 12/21/2000	Effluent 12/26/2000	Effluent 12/27/2000	Effluent 12/28/2000
Flow (GPD)	17378	17378	---	17491	17619	---	17645
pH (SU)	8.14	8.16	---	8.16	8.16	---	8.18
Residue, non-filterable (mg/L)	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	---	---	830	---	---	830	---
CBOD5 (mg/L)	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	0.0002 U	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	0.01 U	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	0.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	0.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	0.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	0.50 U	---	---	---	---
Toluene (ug/L)	---	---	0.50 U	---	---	---	---
Trichloroethene (ug/L)	---	---	0.50 U	---	---	---	---
Acetone (ug/L)	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.

--- - Not analyzed, NA - Data not available

U - Not Detected, J - Estimated

TOD = 1.5 X CBOD5 + 4.5 X TKN

ATTACHMENT A

**SPDES PERMIT COMPLIANCE MONITORING
LABORATORY ANALYTICAL DATA SHEETS**

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R6422
Samp. Description: WTP Effluent

Collected: 11/29/00 Matrix: Water
Received: 11/29/00 15:15

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	830. mg/L	EPA 160.1		12/05/00	120500W23	
Total suspended solids	<5. mg/L	EPA 160.2		12/01/00	120100W22	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: December 14, 2000 Monika Santucci

O'Brien & Gere Laboratories, Inc.

**5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200**

Chain of Custody

7520

[illegible]

Turnaround Time Required:

Routine X
Rush (Specify)

Comments:

Cooler Temperature: 20°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R6789
Samp. Description: WTP Effluent (Comp.)
Units: mg/L

Collected: 12/06/00 Matrix: Water
Received: 12/06/00 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	12/15/00	12/17/00	121500W2	1	
Zinc	<.01	200.7	12/07/00	12/11/00	120700W2	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: December 19, 2000 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R6789
Samp. Description: WTP Effluent (Comp.)

Collected: 12/06/00 Matrix: Water
Received: 12/06/00 15:25

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	820. mg/L	EPA 160.1		12/11/00	121100W21	
Total suspended solids	<5. mg/L	EPA 160.2		12/11/00	121100W22	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: December 20, 2000 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R6788
Samp. Description: WTP Effluent (Grab)
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 12/06/00
Received: 12/06/00
Prepared: 12/07/00
Matrix: Water
QC Batch: 120700W4
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	12/07/00	
Methylene chloride	<2.0		1	12/07/00	
trans-1,2-Dichloroethene	<.50		1	12/07/00	
cis-1,2-Dichloroethene	<.50		1	12/07/00	
Trichloroethene	<.50		1	12/07/00	
4-Methyl-2-pentanone	<5.0		1	12/07/00	
Toluene	<.50		1	12/07/00	
2-Hexanone	<5.0		1	12/07/00	
Tetrachloroethene	<.50		1	12/07/00	
1,1,2,2-Tetrachloroethane	<.50		1	12/07/00	
Dibromofluoromethane (surrogate)	101.%	70-131	1	12/07/00	
1,2-Dichloroethane-d4 (surrogate)	94.%	81-120	1	12/07/00	
Toluene-d8 (surrogate)	101.%	83-117	1	12/07/00	
Bromofluorobenzene (surrogate)	95.%	78-119	1	12/07/00	

Notes:

- Outside control limits J-Estimated value
E - Concentration exceeded the calibration range and is estimated

Authorized: Monika Santucci
Date: December 8, 2000 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R6786
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 10 Instrument: 9001

Collected: 12/06/00
Received: 12/06/00
Prepared: 12/19/00
Analyzed: 12/19/00

Matrix: Water
QC Batch: 121900W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<10.	U	1	
Bromodichloromethane	<10.	U	1	
Bromoform	<100.	U	1	
Bromomethane	<100.	U	1	
Carbon tetrachloride	<10.	U	1	
Chlorobenzene	<10.	U	1	
Chloroethane	<10.	U	1	
2-Chloroethylvinyl ether	<100.	U	1	
Chloroform	<10.	U	1	
Chloromethane	<100.	U	1	
Dibromochloromethane	<10.	U	1	
1,2-Dichlorobenzene	<50.	U	1	
1,3-Dichlorobenzene	<50.	U	1	
1,4-Dichlorobenzene	<50.	U	1	
Dichlorodifluoromethane	<100.	U	1	
1,1-Dichloroethane	<10.	U	1	
1,2-Dichloroethane	<10.	U	1	
1,1-Dichloroethylene	<10.	U	1	
cis-1,2-Dichloroethylene	<10.	U	1	
trans-1,2-Dichloroethylene	<10.	U	1	
Dichloromethane	<10.	U	1	
1,2-Dichloropropane	<10.	U	1	
cis-1,3-Dichloropropylene	<10.	U	1	
trans-1,3-Dichloropropylene	<10.	U	1	
Ethylbenzene	<10.	U	1	
1,1,2,2-Tetrachloroethane	<10.	U	1	
Tetrachloroethylene	<10.	U	1	
Toluene	<10.	U	1	
1,1,1-Trichloroethane	<10.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: December 19, 2000 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R6786
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 10 Instrument: 9001

Collected: 12/06/00
Received: 12/06/00
Prepared: 12/19/00
Analyzed: 12/19/00

Matrix: Water
QC Batch: 121900W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<10.	U	1	
Trichloroethylene	480.		1	
Trichlorofluoromethane	<10.	U	1	
Vinyl Chloride	<10.	U	1	
Xylenes (total)	<30.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	88.%		1	72-123	
Fluorobenzene (surrogate)	99.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: December 19, 2000 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R6787
Samp. Description: WTP Between GAC's
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 12/06/00
Received: 12/06/00
Prepared: 12/18/00
Analyzed: 12/18/00

Matrix: Water
QC Batch: 121800W1
% Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	<1.	U	1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: December 19, 2000 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R6787
Samp. Description: WTP Between GAC's
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 12/06/00
Received: 12/06/00
Prepared: 12/18/00
Analyzed: 12/18/00

Matrix: Water
QC Batch: 121800W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<1.	U	1	
Trichloroethylene	5.		1	
Trichlorofluoromethane	<1.	U	1	
Vinyl Chloride	<1.	U	1	
Xylenes (total)	<3.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	87.%		1	72-123	
Fluorobenzene (surrogate)	100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: December 19, 2000 Monika Santucci

Chain of Custody

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R7070
Samp. Description: WTP Effluent

Collected: 12/12/00
Received: 12/12/00 15:15

Matrix: Water

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	810. mg/L	EPA 160.1		12/18/00	121800W14	
Total suspended solids	<5. mg/L	EPA 160.2		12/19/00	121900W22	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: December 20, 2000 Monika Santucci

Chain of Custody

[illegible]

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R7499
Samp. Description: WTP Effluent (Comp)

Collected: 12/20/00
Received: 12/20/00 15:15
Matrix: Water

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	830. mg/L	EPA 160.1		12/26/00	122600W21	
Total suspended solids	<5. mg/L	EPA 160.2		12/26/00	122600W22	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: January 3, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R7499
Samp. Description: WTP Effluent (Comp)
Units: mg/L

Collected: 12/20/00 Matrix: Water
Received: 12/20/00 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	12/22/00	12/22/00	122200W1	1	
Zinc	<.01	200.7	12/28/00	01/02/01	122800W1	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: January 5, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R7498
Samp. Description: WTP Effluent (Grab)
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 12/20/00
Received: 12/20/00
Prepared: 12/28/20
Matrix: Water
QC Batch: 122800W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	12/28/20	
Methylene chloride	<2.0		1	12/28/20	
trans-1,2-Dichloroethene	<.50		1	12/28/20	
cis-1,2-Dichloroethene	<.50		1	12/28/20	
Trichloroethene	<.50		1	12/28/20	
4-Methyl-2-pentanone	<5.0		1	12/28/20	
Toluene	<.50		1	12/28/20	
2-Hexanone	<5.0		1	12/28/20	
Tetrachloroethene	<.50		1	12/28/20	
1,1,2,2-Tetrachloroethane	<.50		1	12/28/20	
Dibromofluoromethane (surrogate)	101.%	70-131	1	12/28/20	
1,2-Dichloroethane-d4 (surrogate)	99.%	81-120	1	12/28/20	
Toluene-d8 (surrogate)	101.%	83-117	1	12/28/20	
Bromofluorobenzene (surrogate)	98.%	78-119	1	12/28/20	

Notes:

- Outside control limits J-Estimated value
E - Concentration exceeded the calibration range and is estimated

Authorized: Monika Santucci
Date: December 29, 2000 Monika Santucci

Chain of Custody

[illegible]

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R7797
Samp. Description: WTP Effluent

Collected: 12/27/00
Received: 12/27/00 15:45
Matrix: Water

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	830. mg/L	EPA 160.1		12/29/00	122900W22	
Total suspended solids	<5. mg/L	EPA 160.2		12/29/00	122900W23	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: January 11, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

**5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200**

Chain of Custody

7722

[illegible]

Turnaround Time Required:

Routine X
Rush (Specify) _____

Comments:

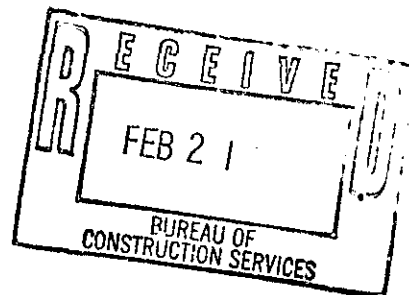
Cooler Temperature: _____

Original-Laboratory Copy-Client



O'BRIEN & GERE
ENGINEERS, INC.

February 14, 2001



Mr. David Crosby, P.E.
Bureau of Construction Services - Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/25463 #2

Dear Mr. Crosby:

This letter presents the status of groundwater treatment plant operations for the former Accurate Die Casting site in Fayetteville, New York for January 2001. This report 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:

1. As of January 31, 2001, a total of 39,535,270 gallons of groundwater has been treated since startup on February 5, 1996. Since January 2, 2001, 495,760 gallons of groundwater was treated; 371,520 gallons from recovery well RW-1, 124,220 gallons from recovery well RW-2, and 20 gallons from the groundwater collection trench constructed in the former VOC/PAH/PCB Soils Area. No ground water was recovered from the sump located outside the northeast corner of the building.
2. 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 in January 2001 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

Activities Scheduled:

1. Continued operation of the ground water recovery and treatment system, including SPDES monitoring.



O'Brien & Gere Engineers, Inc., an O'Brien & Gere company
5000 Brittonfield Parkway / P.O. Box 4873, Syracuse, New York 13221-4873
(315) 437-6100 / FAX (315) 463-7554 • [http:// www.obg.com](http://www.obg.com)
... and offices in major U.S. cities

Mr. David Crosby, P.E.
February 14, 2001
Page 2

If you have any questions regarding this report, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.



Alfred R. Farrell, P.E.
Senior Project Engineer

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Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation – NYSDOH
H. Hamel – NYSDOH
M. Peters, Esq – LeBoeuf, Lamb, Greene & MacRae

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

Analyte (units)	Monitoring Requirements				Effluent	Effluent	Effluent	Effluent
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type	01/02/2001	01/03/2001	01/04/2001	01/09/2001
Flow (GPD)	Monitor	150000	Continuous	Meter	17555	---	17480	17260
pH (SU)	6.5 - 8.5		2/Week	Grab	8.16	---	8.16	8.16
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.	---	810	---	---
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	5 U	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	0.4 U	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	9.3 U	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	8.30	---	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	0.1 U	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	0.06 U	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	0.01 U	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	0.01 U	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	0.01 U	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	0.05 U	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	0.005 U	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	0.0002 U	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	0.05 U	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	0.01 U	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	0.03 U	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	0.01 U	---	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	0.50 U	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	10 U	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.

--- - Not analyzed, NA - Data not available

U - Not Detected, J - Estimated

TOD = 1.5 X CBOD5 + 4.5 X TKN

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

Analyte	Effluent 01/10/2001	Effluent 01/11/2001	Effluent 01/16/2001	Effluent 01/17/2001	Effluent 01/18/2001	Effluent 01/23/2001	Effluent 01/24/2001	Effluent 01/25/2001
Flow (GPD)	---	17230	17160	---	16906	17020	---	17090
pH (SU)	---	8.16	8.16	---	8.16	8.16	---	8.16
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	850	---	---	810	---	---	780	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	0.0002 U	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	0.01 U	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	0.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Toluene (ug/L)	---	---	---	0.50 U	---	---	---	---
Trichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Acetone (ug/L)	---	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.
 --- - Not analyzed, NA - Data not available
 U - Not Detected, J - Estimated
 TOD = 1.5 X CBOD5 + 4.5 X TKN

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

Analyte	Effluent 01/30/2001	Effluent 01/31/2001
Flow (GPD)	17133	---
pH (SU)	8.16	---
Residue, non-filterable (mg/L)	---	5 U
Total dissolved solids (TDS) (mg/L)	---	850
CBOD5 (mg/L)	---	---
TKN (mg/L)	---	---
TOD (mg/L)	---	---
Dissolved Oxygen (mg/L)	---	---
Aluminum, dissolved (mg/L)	---	---
Antimony, total (mg/L)	---	---
Chromium, total (mg/L)	---	---
Cobalt, total (mg/L)	---	---
Copper, total (mg/L)	---	---
Iron, total (mg/L)	---	---
Lead, total (mg/L)	---	---
Mercury, total (mg/L)	---	---
Nickel, total (mg/L)	---	---
Silver, total (mg/L)	---	---
Vanadium, 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)	---	---
Acetone (ug/L)	---	---
2-Hexanone (ug/L)	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.
 --- - Not analyzed, NA - Data not available
 U - Not Detected, J - Estimated
 $TOD = 1.5 \times CBOD5 + 4.5 \times TKN$

ATTACHMENT A

**SPDES PERMIT COMPLIANCE MONITORING
LABORATORY ANALYTICAL DATA SHEETS**

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R8123
Samp. Description: WTP Effluent (Grab)
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 01/03/01
Received: 01/03/01
Prepared: 01/05/01
Matrix: Water
QC Batch: 010501W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog		Notes
		Limits	Dilution	
Acetone	<10.		1	01/05/01
Methylene chloride	<2.0		1	01/05/01
trans-1,2-Dichloroethene	<.50		1	01/05/01
cis-1,2-Dichloroethene	<.50		1	01/05/01
Trichloroethene	<.50		1	01/05/01
4-Methyl-2-pentanone	<5.0		1	01/05/01
Toluene	<.50		1	01/05/01
2-Hexanone	<5.0		1	01/05/01
Tetrachloroethene	<.50		1	01/05/01
1,1,2,2-Tetrachloroethane	<.50		1	01/05/01
Dibromofluoromethane (surrogate)	96.%	70-131	1	01/05/01
1,2-Dichloroethane-d4 (surrogate)	88.%	81-120	1	01/05/01
Toluene-d8 (surrogate)	101.%	83-117	1	01/05/01
Bromofluorobenzene (surrogate)	90.%	78-119	1	01/05/01

Notes:

- Outside control limits J-Estimated value
E - Concentration exceeded the calibration range and is estimated

Authorized: Monika Santucci
Date: January 10, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R8121
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 01/03/01
Received: 01/03/01
Prepared: 01/09/01
Analyzed: 01/09/01

Matrix: Water
QC Batch: 010901W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<50.	U	1	
Bromodichloromethane	<50.	U	1	
Bromoform	<500.	U	1	
Bromomethane	<500.	U	1	
Carbon tetrachloride	<50.	U	1	
Chlorobenzene	<50.	U	1	
Chloroethane	<50.	U	1	
2-Chloroethylvinyl ether	<500.	U	1	
Chloroform	<50.	U	1	
Chloromethane	<500.	U	1	
Dibromochloromethane	<50.	U	1	
1,2-Dichlorobenzene	<250.	U	1	
1,3-Dichlorobenzene	<250.	U	1	
1,4-Dichlorobenzene	<250.	U	1	
Dichlorodifluoromethane	<500.	U	1	
1,1-Dichloroethane	<50.	U	1	
1,2-Dichloroethane	<50.	U	1	
1,1-Dichloroethylene	<50.	U	1	
cis-1,2-Dichloroethylene	<50.	U	1	
trans-1,2-Dichloroethylene	<50.	U	1	
Dichloromethane	<50.	U	1	
1,2-Dichloropropane	<50.	U	1	
cis-1,3-Dichloropropylene	<50.	U	1	
trans-1,3-Dichloropropylene	<50.	U	1	
Ethylbenzene	<50.	U	1	
1,1,2,2-Tetrachloroethane	<50.	U	1	
Tetrachloroethylene	<50.	U	1	
Toluene	<50.	U	1	
1,1,1-Trichloroethane	<50.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: January 10, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R8121
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 01/03/01
Received: 01/03/01
Prepared: 01/09/01
Analyzed: 01/09/01

Matrix: Water
QC Batch: 010901W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<50.	U	1	
Trichloroethylene	460.		1	
Trichlorofluoromethane	<50.	U	1	
Vinyl Chloride	<50.	U	1	
Xylenes (total)	<150.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	98.%		1	72-123	
Fluorobenzene (surrogate)	98.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: January 10, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R8122
Samp. Description: WTP Between GAC's
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 01/03/01
Received: 01/03/01
Prepared: 01/09/01
Analyzed: 01/09/01

Matrix: Water
QC Batch: 010901W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	2.		1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: January 10, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R8122
Samp. Description: WTP Between GAC's
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 01/03/01
Received: 01/03/01
Prepared: 01/09/01
Analyzed: 01/09/01

Matrix: Water
QC Batch: 010901W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<1.	U	1	
Trichloroethylene	29.		1	
Trichlorofluoromethane	<1.	U	1	
Vinyl Chloride	<1.	U	1	
Xylenes (total)	<3.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	98.%		1	72-123	
Fluorobenzene (surrogate)	98.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: January 10, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R8124
Samp. Description: WTP Effluent (Comp)
Units: mg/L

Collected: 01/03/01 Matrix: Water
Received: 01/03/01 %Solids:
Number of analytes: 11

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Antimony	<.06	200.7	01/09/01	01/11/01	010901W1		1
Chromium	<.01	200.7	01/09/01	01/11/01	010901W1		1
Cobalt	<.01	200.7	01/09/01	01/11/01	010901W1		1
Copper	<.01	200.7	01/09/01	01/11/01	010901W1		1
Iron	<.05	200.7	01/09/01	01/11/01	010901W1		1
Lead	<.005	200.7	01/09/01	01/11/01	010901W1		1
Mercury	<.0002	245.1	01/10/01	01/20/01	011901W2		1
Nickel	<.05	200.7	01/09/01	01/11/01	010901W1		1
Silver	<.01	200.7	01/09/01	01/11/01	010901W1		1
Vanadium	<.03	200.7	01/09/01	01/11/01	010901W1		1
Zinc	<.01	200.7	01/09/01	01/11/01	010901W1		1

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: January 24, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R8147
Samp. Description: WTP Effluent (Comp)
Units: mg/L

Collected: 01/03/01 Matrix: Water
Received: 01/03/01 %Solids:
Number of analytes: 1

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Aluminum, filtered	<.1	200.7	01/09/01	01/11/01	010901W1		1

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: January 24, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R8124
Samp. Description: WTP Effluent (Comp)

Collected: 01/03/01 10:36 Matrix: Water
Received: 01/03/01 15:30

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
CBOD5	<5. mg/L	SM5210B		01/04/01	010401W12	
Total Kjeldahl nitrogen	<.4 mg/L	EPA 351.2	01/18/01	01/22/01	011801W2	
Total dissolved solids	810. mg/L	EPA 160.1		01/08/01	010801W11	
Total suspended solids	<5. mg/L	EPA 160.2		01/05/01	010501W12	

Notes:

J-Estimated value

Authorized: Monika Santucci

Date: January 23, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

Client: <u>OGINA</u>						Analysis/Method								
Project: <u>FORMER ACURATE DIE</u>						VOCs EPA METH 8021 VOCs EPA METH 8021 VOCs EPA METH 8260 METALS + ALUM CODS & TSS/TDS TKN								
Sampled by: <u>JERRY BORN</u>														
Client Contact: <u>AL FAHRELL</u> Phone # <u>2316</u>														
Sample Description														
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers									
WTP INFLUENT	1/3/01	7:02 AM	WATER	GRAB	2	X								
WTP BETWEEN GRAB'S	1/3/01	7:05 AM	WATER	GRAB	2		X							
WTP EFFLUENT	1/3/01	7:07 AM	WATER	GRAB	2			X						
WTP EFFLUENT	1/3/01	10:32 AM	WATER	COMP	1				X					
WTP EFFLUENT	1/3/01	10:32 AM	WATER	COMP	1				X					
WTP EFFLUENT	1/3/01	10:35 AM	WATER	COMP	1					X				
WTP EFFLUENT	1/3/01	10:36 AM	WATER	COMP	1					+				
WTP EFFLUENT	1/3/01	10:39 AM	WATER	COMP	1						+			
Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: _____ Time: _____								
Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: _____ Time: _____								
Relinquished by: <u>Jerry Born</u> Date: <u>1/3/01</u> Time: <u>1530</u>						Received by Lab: <u>M. C. L. L.</u> Date: <u>1/3/01</u> Time: <u>1530</u>								
Shipment Method: <u>HAND DELIVERED</u>						Airbill Number: _____								

Turnaround Time Required:

Routine X
Rush (Specify) _____

Comments:

Cooler Temperature: 1°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

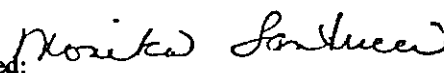
Sample: R8368
Samp. Description: WTP Effluent

Collected: 01/10/01 Matrix: Water
Received: 01/10/01 14:50

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	850. mg/L	EPA 160.1		01/15/01	011501W21	
Total suspended solids	<5. mg/L	EPA 160.2		01/15/01	011501W22	

Notes:

J-Estimated value

Authorized: 
Date: January 18, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

**5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200**

Chain of Custody

[illegible]

Turnaround Time Required:
 Routine _____ ✓
 Rush (Specify) _____

Comments:Cooler Temperature: 2°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R8961
Samp. Description: WTP Effluent (Grab)
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 01/17/01
Received: 01/17/01
Prepared: 01/26/01
Matrix: Water
QC Batch: 012601W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	01/26/01	
Methylene chloride	<2.0		1	01/26/01	
trans-1,2-Dichloroethene	<.50		1	01/26/01	
cis-1,2-Dichloroethene	<.50		1	01/26/01	
Trichloroethene	<.50		1	01/26/01	
4-Methyl-2-pentanone	<5.0		1	01/26/01	
Toluene	<.50		1	01/26/01	
2-Hexanone	<5.0		1	01/26/01	
Tetrachloroethene	<.50		1	01/26/01	
1,1,2,2-Tetrachloroethane	<.50		1	01/26/01	
Dibromofluoromethane (surrogate)	103.%	70-131	1	01/26/01	
1,2-Dichloroethane-d4 (surrogate)	92.%	81-120	1	01/26/01	
Toluene-d8 (surrogate)	104.%	83-117	1	01/26/01	
Bromofluorobenzene (surrogate)	101.%	78-119	1	01/26/01	

Notes:

- Outside control limits J-Estimated value
E - Concentration exceeded the calibration range and is estimated

Authorized: Monika Santucci
Date: January 29, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R8962
Samp. Description: WTP Effluent (Comp)
Units: mg/L

Collected: 01/17/01 Matrix: Water
Received: 01/17/01 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	02/02/01	02/04/01	020201W3		1
Zinc	<.01	200.7	01/30/01	02/01/01	013001W1		1

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: February 5, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R8962
Samp. Description: WTP Effluent (Comp)

Collected: 01/17/01 Matrix: Water
Received: 01/17/01 15:30

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	810. mg/L	EPA 160.1		01/19/01	011901W12	
Total suspended solids	<5. mg/L	EPA 160.2		01/19/01	011901W11	

Notes:

J-Estimated value

Authorized: 
Date: January 23, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

**5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200**

Chain of Custody

[illegible]

Turnaround Time Required:
Routine X
Rush (Specify)

Comments:Cooler Temperature: 23

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R9553
Samp. Description: WTP Effluent

Collected: 01/24/01
Received: 01/24/01 15:15
Matrix: Water

Parameter	Result Units	Method	Prepared Analyzed	QC Batch	Note
Total dissolved solids	780. mg/L	EPA 160.1	01/26/01	012601W21	
Total suspended solids	<5. mg/L	EPA 160.2	01/25/01	012501W24	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: February 12, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: R9779
Samp. Description: WTP Effluent

Collected: 01/31/01 Matrix: Water
Received: 01/31/01 15:10

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	850. mg/L	EPA 160.1		02/01/01	020101W21	
Total suspended solids	<5. mg/L	EPA 160.2		02/01/01	020101W22	

Notes:

J-Estimated value

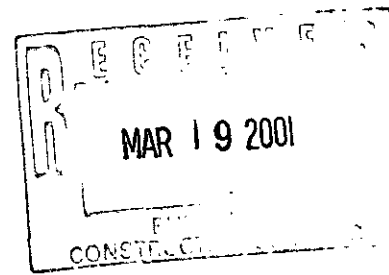
Authorized: _____
Date: February 9, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200



O'BRIEN & GERE
ENGINEERS, INC.

March 14, 2001



Mr. David Crosby, P.E.
Bureau of Construction Services - Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/25463 #2

Dear Mr. Crosby:

This letter presents the status of groundwater treatment plant operations for the former Accurate Die Casting site in Fayetteville, New York for February 2001. This report 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:

1. As of March 1, 2001, a total of 40,040,050 gallons of groundwater has been treated since startup on February 5, 1996. Since January 31, 2001, 504,780 gallons of groundwater was treated; 359,910 gallons from recovery well RW-1, 144,830 gallons from recovery well RW-2, 30 gallons from the groundwater collection trench constructed in the former VOC/PAH/PCB Soils Area, and 10 gallons from the sump located outside the northeast corner of the building.
2. 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 in February 2001 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

Activities Scheduled:

1. Continued operation of the ground water recovery and treatment system, including SPDES monitoring.



O'Brien & Gere Engineers, Inc., an O'Brien & Gere company
5000 Brittonfield Parkway / P.O. Box 4873, Syracuse, New York 13221-4873
(315) 437-6100 / FAX (315) 463-7554 • [http:// www.obg.com](http://www.obg.com)
... and offices in major U.S. cities

Mr. David Crosby, P.E.
March 14, 2001
Page 2

If you have any questions regarding this report, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

A handwritten signature in black ink, appearing to read 'Alfred R. Farrell', written in a cursive style.

Alfred R. Farrell, P.E.
Senior Project Engineer

I:\DIV71\PROJECTS\2488\23123\2_CORRES\1-2001MOR.doc
Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation – NYSDOH
H. Hamel – NYSDOH
M. Peters, Esq – LeBoeuf, Lamb, Greene & MacRae

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

Analyte (units)	Monitoring Requirements				Effluent	Effluent	Effluent	Effluent
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type	02/01/2001	02/06/2001	02/07/2001	02/08/2001
Flow (GPD)	Monitor	150000	Continuous	Meter	16930	17311	---	17260
pH (SU)	6.5 - 8.5		2/Week	Grab	8.16	8.16	---	8.16
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.	---	---	920	---
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	---	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min	Quarterly	Grab	---	---	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	---	0.0002 U	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	---	0.01 U	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	---	0.50 U	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	---	0.50 U	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	---	2.0 U	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	---	0.50 U	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	---	0.50 U	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	---	0.50 U	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	---	0.50 U	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	---	10 U	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	---	5.0 U	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	---	5.0 U	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.

--- - Not analyzed, NA - Data not available

U - Not Detected, J - Estimated

TOD = 1.5 X CBOD5 + 4.5 X TKN



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

Analyte	Effluent 02/13/2001	Effluent 02/14/2001	Effluent 02/15/2001	Effluent 02/20/2001	Effluent 02/21/2001	Effluent 02/22/2001	Effluent 02/27/2001	Effluent 02/28/2001
Flow (GPD)	17740	---	18307	18738	---	18759	19075	---
pH(SU)	8.18	---	8.16	8.20	---	8.20	8.20	---
Residue, non-filterable (mg/L)	---	5 U	---	---	5 U	---	---	5 U
Total dissolved solids (TDS) (mg/L)	---	820	---	---	790	---	---	850
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	---	0.0002 U	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	---	0.01 U	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Methylene chloride (ug/L)	---	---	---	---	2.0 U	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	---	0.50 U	---	---	---
Tetrachloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Toluene (ug/L)	---	---	---	---	0.50 U	---	---	---
Trichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Acetone (ug/L)	---	---	---	---	10 U	---	---	---
2-Hexanone (ug/L)	---	---	---	---	5.0 U	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	---	5.0 U	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.
 --- - Not analyzed, NA - Data not available
 U - Not Detected, J - Estimated
 TOD = 1.5 X CBOD5 + 4.5 X TKN

ATTACHMENT A

**SPDES PERMIT COMPLIANCE MONITORING
LABORATORY ANALYTICAL DATA SHEETS**

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S0132
Samp. Description: WTP Effluent (Grab)
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 02/07/01
Received: 02/07/01
Prepared: 02/15/01
Matrix: Water
QC Batch: 021501W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	02/15/01	
Methylene chloride	<2.0		1	02/15/01	
trans-1,2-Dichloroethene	<.50		1	02/15/01	
cis-1,2-Dichloroethene	<.50		1	02/15/01	
Trichloroethene	<.50		1	02/15/01	
4-Methyl-2-pentanone	<5.0		1	02/15/01	
Toluene	<.50		1	02/15/01	
2-Hexanone	<5.0		1	02/15/01	
Tetrachloroethene	<.50		1	02/15/01	
1,1,2,2-Tetrachloroethane	<.50		1	02/15/01	
Dibromofluoromethane (surrogate)	99.%	70-131	1	02/15/01	
1,2-Dichloroethane-d4 (surrogate)	87.%	81-120	1	02/15/01	
Toluene-d8 (surrogate)	97.%	83-117	1	02/15/01	
Bromofluorobenzene (surrogate)	105.%	78-119	1	02/15/01	

Notes:

- Outside control limits J-Estimated value
E - Concentration exceeded the calibration range and is estimated

Authorized: Monika Santucci
Date: February 16, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S0130
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 02/07/01
Received: 02/07/01
Prepared: 02/09/01
Analyzed: 02/09/01

Matrix: Water
QC Batch: 020901W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<50.	U	1	
Bromodichloromethane	<50.	U	1	
Bromoform	<500.	U	1	
Bromomethane	<500.	U	1	
Carbon tetrachloride	<50.	U	1	
Chlorobenzene	<50.	U	1	
Chloroethane	<50.	U	1	
2-Chloroethylvinyl ether	<500.	U	1	
Chloroform	<50.	U	1	
Chloromethane	<500.	U	1	
Dibromochloromethane	<50.	U	1	
1,2-Dichlorobenzene	<250.	U	1	
1,3-Dichlorobenzene	<250.	U	1	
1,4-Dichlorobenzene	<250.	U	1	
Dichlorodifluoromethane	<500.	U	1	
1,1-Dichloroethane	<50.	U	1	
1,2-Dichloroethane	<50.	U	1	
1,1-Dichloroethylene	<50.	U	1	
cis-1,2-Dichloroethylene	<50.	U	1	
trans-1,2-Dichloroethylene	<50.	U	1	
Dichloromethane	<50.	U	1	
1,2-Dichloropropane	<50.	U	1	
cis-1,3-Dichloropropylene	<50.	U	1	
trans-1,3-Dichloropropylene	<50.	U	1	
Ethylbenzene	<50.	U	1	
1,1,2,2-Tetrachloroethane	<50.	U	1	
Tetrachloroethylene	<50.	U	1	
Toluene	<50.	U	1	
1,1,1-Trichloroethane	<50.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: February 14, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S0130
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 02/07/01
Received: 02/07/01
Prepared: 02/09/01
Analyzed: 02/09/01

Matrix: Water
QC Batch: 020901W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<50.	U	1	
Trichloroethylene	500.		1	
Trichlorofluoromethane	<50.	U	1	
Vinyl Chloride	<50.	U	1	
Xylenes (total)	<150.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	96. %		1	76-121	
Fluorobenzene (surrogate)	103. %		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: February 14, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S0131
Samp. Description: WTP Between GAC's
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Collected: 02/07/01
Received: 02/07/01
Prepared: 02/13/01
Analyzed: 02/13/01

Matrix: Water
QC Batch: 021301W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<2.	U	1	
Bromodichloromethane	<2.	U	1	
Bromoform	<20.	U	1	
Bromomethane	<20.	U	1	
Carbon tetrachloride	<2.	U	1	
Chlorobenzene	<2.	U	1	
Chloroethane	<2.	U	1	
2-Chloroethylvinyl ether	<20.	U	1	
Chloroform	<2.	U	1	
Chloromethane	<20.	U	1	
Dibromochloromethane	<2.	U	1	
1,2-Dichlorobenzene	<10.	U	1	
1,3-Dichlorobenzene	<10.	U	1	
1,4-Dichlorobenzene	<10.	U	1	
Dichlorodifluoromethane	<20.	U	1	
1,1-Dichloroethane	<2.	U	1	
1,2-Dichloroethane	<2.	U	1	
1,1-Dichloroethylene	<2.	U	1	
cis-1,2-Dichloroethylene	3.		1	
trans-1,2-Dichloroethylene	<2.	U	1	
Dichloromethane	<2.	U	1	
1,2-Dichloropropane	<2.	U	1	
cis-1,3-Dichloropropylene	<2.	U	1	
trans-1,3-Dichloropropylene	<2.	U	1	
Ethylbenzene	<2.	U	1	
1,1,2,2-Tetrachloroethane	<2.	U	1	
Tetrachloroethylene	<2.	U	1	
Toluene	<2.	U	1	
1,1,1-Trichloroethane	<2.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: February 14, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S0131
Samp. Description: WTP Between GAC's
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Collected: 02/07/01 Matrix: Water
Received: 02/07/01 QC Batch: 021301W1
Prepared: 02/13/01 %Solids:
Analyzed: 02/13/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<2.	U	1	
Trichloroethylene	80.		1	
Trichlorofluoromethane	<2.	U	1	
Vinyl Chloride	<2.	U	1	
Xylenes (total)	<6.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	91.%		1	76-121	
Fluorobenzene (surrogate)	104.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: February 14, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S0133
Samp. Description: WTP Effluent (Comp)
Units: mg/L

Collected: 02/07/01 Matrix: Water
Received: 02/07/01 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	02/14/01	02/14/01	021401W1		1
Zinc	<.01	200.7	02/12/01	02/15/01	021201W2		1

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: February 19, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S0133
Samp. Description: WTP Effluent (Comp)

Collected: 02/07/01 Matrix: Water
Received: 02/07/01 15:15

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	920. mg/L	EPA 160.1		02/14/01	021401W22	
Total suspended solids	<5. mg/L	EPA 160.2		02/13/01	021301W13	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: February 19, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

Client: <u>OG/NA</u>						Analysis/Method									
Project: <u>FORMER ACCURATE DIE</u>						VOCs EPA METH 82021 VOCs EPA METH 82021 VOCs EPA METH 8260 Zn & Hg TSS/TDS									
Sampled by: <u>JERRY BORN</u>															
Client Contact: <u>AL FARRELL</u> Phone # <u>2316</u>															
Sample Description															
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers										
WTP INFLUENT	2/7/01	6:55 AM	WATER	GRAB	2	X									
WTP BETWEEN GAC'S	2/7/01	6:57 AM	WATER	GRAB	2										
WTP EFFLUENT	2/7/01	6:59 AM	WATER	GRAB	2										
WTP EFFLUENT	2/7/01	10:00 AM	WATER	COMP	1										
WTP EFFLUENT	2/7/01	9:59 AM	WATER	COMP	1										
Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: _____ Time: _____									
Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: _____ Time: _____									
Relinquished by: <u>Jerry Born</u> Date: <u>2/7/01</u> Time: <u>1515</u>						Received by Lab: <u>[Signature]</u> Date: <u>2/7/01</u> Time: <u>1515</u>									
Shipment Method: <u>HAND DELIVERED</u>						Airbill Number: _____									

Turnaround Time Required:
 Routine X
 Rush (Specify) _____

Comments:

Cooler Temperature: 2°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S0549
Samp. Description: WTP Effluent

Collected: 02/14/01 Matrix: Water
Received: 02/14/01 14:15

Parameter	Result Units	Method	Prepared Analyzed	QC Batch	Note
Total dissolved solids	820. mg/L	EPA 160.1	02/19/01	021901W23	
Total suspended solids	<5. mg/L	EPA 160.2	02/19/01	021901W24	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: February 21, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

**5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200**

Chain of Custody

80910

[illegible]**Turnaround Time Required:**

Routine ☒
Rush (Specify)

Comments:Cooler Temperature: 200

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S0807
Samp. Description: WTP Effluent (Grab)
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 02/21/01
Received: 02/21/01
Prepared: 02/23/01
Matrix: Water
QC Batch: 022301W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	02/23/01	
Methylene chloride	<2.0		1	02/23/01	
trans-1,2-Dichloroethene	<.50		1	02/23/01	
cis-1,2-Dichloroethene	<.50		1	02/23/01	
Trichloroethene	<.50		1	02/23/01	
4-Methyl-2-pentanone	<5.0		1	02/23/01	
Toluene	<.50		1	02/23/01	
2-Hexanone	<5.0		1	02/23/01	
Tetrachloroethene	<.50		1	02/23/01	
1,1,2,2-Tetrachloroethane	<.50		1	02/23/01	
Dibromofluoromethane (surrogate)	104.%	70-131	1	02/23/01	
1,2-Dichloroethane-d4 (surrogate)	93.%	81-120	1	02/23/01	
Toluene-d8 (surrogate)	96.%	83-117	1	02/23/01	
Bromofluorobenzene (surrogate)	105.%	78-119	1	02/23/01	

Notes:

- Outside control limits J-Estimated value
E - Concentration exceeded the calibration range and is estimated

Authorized: _____
Date: February 28, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S0808
Samp. Description: WTP Effluent (Comp)

Collected: 02/21/01 Matrix: Water
Received: 02/21/01 15:10

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	790. mg/L	EPA 160.1		02/28/01	022801W22	
Total suspended solids	<5. mg/L	EPA 160.2		02/26/01	022601W22	

Notes:

J-Estimated value

Authorized: _____
Date: March 2, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S0808
Samp. Description: WTP Effluent (Comp)
Units: mg/L

Collected: 02/21/01 Matrix: Water
Received: 02/21/01 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut. Note
Mercury	<.0002	245.1	03/02/01	03/02/01	030201W2	1
Zinc	<.01	200.7	02/26/01	03/01/01	022601W2	1

Notes:

J-Estimated value

Authorized: _____
Date: March 12, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S1079
Samp. Description: WTP Effluent

Collected: 02/28/01 Matrix: Water
Received: 02/28/01 15:15

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	850. mg/L	EPA 160.1		03/06/01	030601W27	
Total suspended solids	<5. mg/L	EPA 160.2		03/06/01	030601W26	

Notes:

J-Estimated value

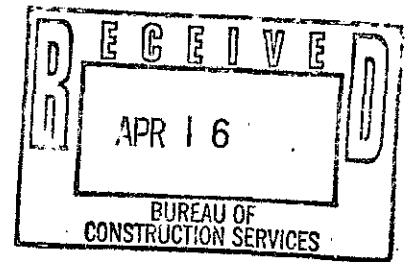
Authorized: _____
Date: March 12, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200



O'BRIEN & GERE
ENGINEERS, INC.

April 13, 2001



Mr. David Crosby, P.E.
Bureau of Construction Services - Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/25463 #2

Dear Mr. Crosby:

This letter presents the status of groundwater treatment plant operations for the former Accurate Die Casting site in Fayetteville, New York for March 2001. This report 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:

1. As of April 2, 2001, a total of 40,711,510 gallons of groundwater has been treated since startup on February 5, 1996. Since March 1, 2001, 671,460 gallons of groundwater was treated; 426,630 gallons from recovery well RW-1, 244,710 gallons from recovery well RW-2, 110 gallons from the groundwater collection trench constructed in the former VOC/PAH/PCB Soils Area, and 10 gallons from the sump located outside the northeast corner of the building.
2. 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 in March 2001 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.
3. On March 16, 2001 the granular activated carbon was removed and replaced from GAC unit #2. After replacing the spent carbon from GAC unit #2, the valves were reconfigured so that GAC unit #1 is the lead vessel.

Activities Scheduled:

1. Continued operation of the ground water recovery and treatment system, including SPDES monitoring.



O'Brien & Gere Engineers, Inc., an O'Brien & Gere company
5000 Brittonfield Parkway / P.O. Box 4873, Syracuse, New York 13221-4873
(315) 437-6100 / FAX (315) 463-7554 • [http:// www.obg.com](http://www.obg.com)
... and offices in major U.S. cities

Mr. David Crosby, P.E.
April 13, 2001
Page 2

If you have any questions regarding this report, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

A handwritten signature in black ink, appearing to read 'A. Farrell', written in a cursive style.

Alfred R. Farrell, P.E.
Senior Project Engineer

I:\DIV71\PROJECTS\2488\23123\2_CORRES\3-2001MOR.doc
Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation – NYSDOH
H. Hamel – NYSDOH
M. Peters, Esq – LeBoeuf, Lamb, Greene & MacRae

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

Analyte (units)	Monitoring Requirements				Effluent	Effluent	Effluent	Effluent
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type	03/01/2001	03/06/2001	03/07/2001	03/08/2001
Flow (GPD)	Monitor	150000	Continuous	Meter	19411	19763	---	19671
pH (SU)	6.5 - 8.5		2/Week	Grab	8.21	8.21	---	8.21
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.	---	---	720	---
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	---	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	---	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	---	0.0002 U	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	---	0.01 U	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	---	0.50 U	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	---	0.50 U	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	---	2.0 U	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	---	0.50 U	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	---	0.50 U	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	---	0.50 U	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	---	0.50 U	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	---	10 U	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	---	5.0 U	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	---	5.0 U	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.

--- - Not analyzed, NA - Data not available

U - Not Detected, J - Estimated

TOD = 1.5 X CBOD5 + 4.5 X TKN

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

Analyte	Effluent 03/13/2001	Effluent 03/14/2001	Effluent 03/15/2001	Effluent 03/20/2001	Effluent 03/21/2001	Effluent 03/22/2001	Effluent 03/27/2001	Effluent 03/28/2001
Flow (GPD)	19956	---	19942	20550	---	20622	20971	---
pH (SU)	8.2	---	8.2	8.47	---	8.41	8.29	---
Residue, non-filterable (mg/L)	---	5 U	---	---	5 U	---	---	5 U
Total dissolved solids (TDS) (mg/L)	---	780	---	---	680	---	---	700
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	---	0.0002 U	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	---	0.04	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Methylene chloride (ug/L)	---	---	---	---	2.0 U	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	---	0.50 U	---	---	---
Tetrachloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Toluene (ug/L)	---	---	---	---	0.50 U	---	---	---
Trichloroethene (ug/L)	---	---	---	---	1.1	---	---	---
Acetone (ug/L)	---	---	---	---	10 U	---	---	---
2-Hexanone (ug/L)	---	---	---	---	5.0 U	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	---	5.0 U	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.

--- - Not analyzed, NA - Data not available

U - Not Detected, J - Estimated

TOD = 1.5 X CBOD5 + 4.5 X TKN

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

Analyte	Effluent
	03/29/2001
Flow (GPD)	21070
pH (SU)	8.25
Residue, non-filterable (mg/L)	---
Total dissolved solids (TDS) (mg/L)	---
CBOD5 (mg/L)	---
TKN (mg/L)	---
TOD (mg/L)	---
Dissolved Oxygen (mg/L)	---
Aluminum, dissolved (mg/L)	---
Antimony, total (mg/L)	---
Chromium, total (mg/L)	---
Cobalt, total (mg/L)	---
Copper, total (mg/L)	---
Iron, total (mg/L)	---
Lead, total (mg/L)	---
Mercury, total (mg/L)	---
Nickel, total (mg/L)	---
Silver, total (mg/L)	---
Vanadium, 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)	---
Acetone (ug/L)	---
2-Hexanone (ug/L)	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---
NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997. --- - Not analyzed, NA - Data not available U - Not Detected, J - Estimated TOD = 1.5 X CBOD5 + 4.5 X TKN	

ATTACHMENT A

**SPDES PERMIT COMPLIANCE MONITORING
LABORATORY ANALYTICAL DATA SHEETS**

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S1538
Samp. Description: WTP Effluent (Grab)
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 03/07/01
Received: 03/07/01
Prepared: 03/09/01
Matrix: Water
QC Batch: 030901W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	03/09/01	
Methylene chloride	<2.0		1	03/09/01	
trans-1,2-Dichloroethene	<.50		1	03/09/01	
cis-1,2-Dichloroethene	<.50		1	03/09/01	
Trichloroethene	<.50		1	03/09/01	
4-Methyl-2-pentanone	<5.0		1	03/09/01	
Toluene	<.50		1	03/09/01	
2-Hexanone	<5.0		1	03/09/01	
Tetrachloroethene	<.50		1	03/09/01	
1,1,2,2-Tetrachloroethane	<.50		1	03/09/01	
Dibromofluoromethane (surrogate)	107.%	70-131	1	03/09/01	
1,2-Dichloroethane-d4 (surrogate)	104.%	81-120	1	03/09/01	
Toluene-d8 (surrogate)	103.%	83-117	1	03/09/01	
Bromofluorobenzene (surrogate)	106.%	78-119	1	03/09/01	

Notes:

- Outside control limits J-Estimated value
E - Concentration exceeded the calibration range and is estimated

Authorized: Monika Santucci
Date: March 9, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S1536
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 03/07/01
Received: 03/07/01
Prepared: 03/09/01
Analyzed: 03/09/01

Matrix: Water
QC Batch: 030901W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<50.	U	1	
Bromodichloromethane	<50.	U	1	
Bromoform	<500.	U	1	
Bromomethane	<500.	U	1	
Carbon tetrachloride	<50.	U	1	
Chlorobenzene	<50.	U	1	
Chloroethane	<50.	U	1	
2-Chloroethylvinyl ether	<500.	U	1	
Chloroform	<50.	U	1	
Chloromethane	<500.	U	1	
Dibromochloromethane	<50.	U	1	
1,2-Dichlorobenzene	<250.	U	1	
1,3-Dichlorobenzene	<250.	U	1	
1,4-Dichlorobenzene	<250.	U	1	
Dichlorodifluoromethane	<500.	U	1	
1,1-Dichloroethane	<50.	U	1	
1,2-Dichloroethane	<50.	U	1	
1,1-Dichloroethylene	<50.	U	1	
cis-1,2-Dichloroethylene	<50.	U	1	
trans-1,2-Dichloroethylene	<50.	U	1	
Dichloromethane	<50.	U	1	
1,2-Dichloropropane	<50.	U	1	
cis-1,3-Dichloropropylene	<50.	U	1	
trans-1,3-Dichloropropylene	<50.	U	1	
Ethylbenzene	<50.	U	1	
1,1,2,2-Tetrachloroethane	<50.	U	1	
Tetrachloroethylene	<50.	U	1	
Toluene	<50.	U	1	
1,1,1-Trichloroethane	<50.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: 
Date: March 22, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S1536
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 03/07/01
Received: 03/07/01
Prepared: 03/09/01
Analyzed: 03/09/01

Matrix: Water
QC Batch: 030901W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<50.	U	1	
Trichloroethylene	680.		1	
Trichlorofluoromethane	<50.	U	1	
Vinyl Chloride	<50.	U	1	
Xylenes (total)	<150.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	103.%		1	76-121	
Fluorobenzene (surrogate)	103.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: March 22, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S1537
Samp. Description: WTP Between GAC's
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Collected: 03/07/01
Received: 03/07/01
Prepared: 03/20/01
Analyzed: 03/20/01

Matrix: Water
QC Batch: 032001W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<5.	U	1	
Bromodichloromethane	<5.	U	1	
Bromoform	<50.	U	1	
Bromomethane	<50.	U	1	
Carbon tetrachloride	<5.	U	1	
Chlorobenzene	<5.	U	1	
Chloroethane	<5.	U	1	
2-Chloroethylvinyl ether	<50.	U	1	
Chloroform	<5.	U	1	
Chloromethane	<50.	U	1	
Dibromochloromethane	<5.	U	1	
1,2-Dichlorobenzene	<25.	U	1	
1,3-Dichlorobenzene	<25.	U	1	
1,4-Dichlorobenzene	<25.	U	1	
Dichlorodifluoromethane	<50.	U	1	
1,1-Dichloroethane	<5.	U	1	
1,2-Dichloroethane	<5.	U	1	
1,1-Dichloroethylene	<5.	U	1	
cis-1,2-Dichloroethylene	<5.	U	1	
trans-1,2-Dichloroethylene	<5.	U	1	
Dichloromethane	<5.	U	1	
1,2-Dichloropropane	<5.	U	1	
cis-1,3-Dichloropropylene	<5.	U	1	
trans-1,3-Dichloropropylene	<5.	U	1	
Ethylbenzene	<5.	U	1	
1,1,2,2-Tetrachloroethane	<5.	U	1	
Tetrachloroethylene	<5.	U	1	
Toluene	<5.	U	1	
1,1,1-Trichloroethane	<5.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: March 22, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S1537
Samp. Description: WTP Between GAC's
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Collected: 03/07/01 Matrix: Water
Received: 03/07/01 QC Batch: 032001W1
Prepared: 03/20/01 %Solids:
Analyzed: 03/20/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<5.	U	1	
Trichloroethylene	150.		1	
Trichlorofluoromethane	<5.	U	1	
Vinyl Chloride	<5.	U	1	
Xylenes (total)	<15.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	79. %		1	76-121	
Fluorobenzene (surrogate)	103. %		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: March 22, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

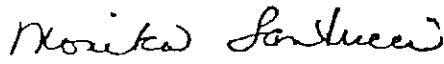
Sample: S1539
Samp. Description: WTP Effluent (Comp)
Units: mg/L

Collected: 03/07/01 Matrix: Water
Received: 03/07/01 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	03/15/01	03/16/01	031501W1	1	
Zinc	<.01	200.7	03/13/01	03/14/01	031301W1	1	

Notes:

J-Estimated value

Authorized: 

Date: March 24, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S1539
Samp. Description: WTP Effluent (Comp)

Collected: 03/07/01 Matrix: Water
Received: 03/07/01 15:10

Parameter	Result Units	Method	Prepared Analyzed	QC Batch	Note
Total dissolved solids	720. mg/L	EPA 160.1	03/12/01	031201W21	
Total suspended solids	<5. mg/L	EPA 160.2	03/12/01	031201W22	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: March 16, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Chain of Custody

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S2164
Samp. Description: WTP Effluent

Collected: 03/14/01 Matrix: Water
Received: 03/14/01 15:20

Parameter	Result Units	Method	Prepared Analyzed	QC Batch	Note
Total dissolved solids	780. mg/L	EPA 160.1	03/20/01	032001W23	
Total suspended solids	<5. mg/L	EPA 160.2	03/15/01	031501W21	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: March 21, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

**5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200**

Chain of Custody

[illegible]**Turnaround Time Required:**

Routine ☒
 Rush (Specify) _____

Comments:

Cooler Temperature: 2

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S2654
Samp. Description: WTP Effluent (Grab)
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 14

Collected: 03/21/01
Received: 03/21/01
Prepared: 03/29/01
Matrix: Water
QC Batch: 032901W3
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed Notes
Acetone	<10.		1	03/29/01
Methylene chloride	<2.0		1	03/29/01
trans-1,2-Dichloroethene	<.50		1	03/29/01
cis-1,2-Dichloroethene	<.50		1	03/29/01
Trichloroethene	1.1		1	03/29/01
4-Methyl-2-pentanone	<5.0		1	03/29/01
Toluene	<.50		1	03/29/01
2-Hexanone	<5.0		1	03/29/01
Tetrachloroethene	<.50		1	03/29/01
1,1,2,2-Tetrachloroethane	<.50		1	03/29/01
Dibromofluoromethane (surrogate)	99.%	70-131	1	03/29/01
1,2-Dichloroethane-d4 (surrogate)	103.%	81-120	1	03/29/01
Toluene-d8 (surrogate)	102.%	83-117	1	03/29/01
Bromofluorobenzene (surrogate)	101.%	78-119	1	03/29/01

Notes:

- Outside control limits J-Estimated value
E - Concentration exceeded the calibration range and is estimated

Authorized: Monika Santucci
Date: April 3, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S2655
Samp. Description: WTP Effluent (Comp)
Units: mg/L

Collected: 03/21/01 Matrix: Water
Received: 03/21/01 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	03/29/01	03/30/01	032901W1	1	
Zinc	.04	200.7	04/03/01	04/04/01	040301W1	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: April 7, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S2655
Samp. Description: WTP Effluent (Comp)

Collected: 03/21/01
Received: 03/21/01 15:05
Matrix: Water

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	680. mg/L	EPA 160.1		03/26/01	032601W22	
Total suspended solids	<5. mg/L	EPA 160.2		03/23/01	032301W23	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: March 27, 2001 Monika Santucci

Chain of Custody

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S3112
Samp. Description: WTP Effluent

Collected: 03/28/01 Matrix: Water
Received: 03/28/01 15:17

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	700. mg/L	EPA 160.1		04/03/01	040301W16	
Total suspended solids	<5. mg/L	EPA 160.2		03/29/01	032901W23	

Notes:

J-Estimated value

Authorized: Monika Santucci

Date: April 5, 2001

Monika Santucci

Chain of Custody

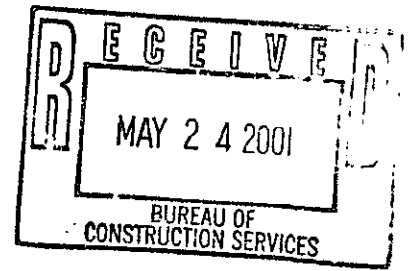
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Original-Laboratory Copy-Client



O'BRIEN & GERE
ENGINEERS, INC.

May 17, 2001



Mr. David Crosby, P.E.
Bureau of Construction Services - Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/25463 #2

Dear Mr. Crosby:

This letter presents the status of groundwater treatment plant operations for the former Accurate Die Casting site in Fayetteville, New York for April 2001. This report 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:

1. As of May 1, 2001, a total of 41,326,650 gallons of groundwater has been treated since startup on February 5, 1996. Since April 2, 2001, 615,140 gallons of groundwater was treated; 377,920 gallons from recovery well RW-1, 237,210 gallons from recovery well RW-2, and 10 gallons from the groundwater 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.
2. 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 in April 2001 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

Activities Scheduled:

1. Continued operation of the ground water recovery and treatment system, including SPDES monitoring.



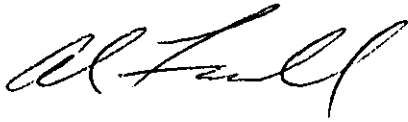
O'Brien & Gere Engineers, Inc., an O'Brien & Gere company
5000 Brittonfield Parkway / P.O. Box 4873, Syracuse, New York 13221-4873
(315) 437-6100 / FAX (315) 463-7554 • [http:// www.obg.com](http://www.obg.com)
... and offices in major U.S. cities

Mr. David Crosby, P.E.
May 17, 2001
Page 2

If you have any questions regarding this report, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

A handwritten signature in black ink, appearing to read "Al Farrell", written in a cursive style.

Alfred R. Farrell, P.E.
Senior Project Engineer

I:\DIV71\PROJECTS\2488\23123\2_CORRES\4-2001MOR.doc
Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation – NYSDOH
H. Hamel – NYSDOH
M. Peters, Esq – LeBoeuf, Lamb, Greene & MacRae
P. Anderson – The Anderson Company

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

Analyte (units)	Monitoring Requirements				Effluent	Effluent	Effluent	Effluent
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type	04/03/2001	04/04/2001	04/05/2001	04/10/2001
Flow (GPD)	Monitor	150000	Continuous	Meter	21458	---	21456	21480
pH (SU)	6.5 - 8.5		2/Week	Grab	8.19	---	8.2	8.2
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.	---	640	---	---
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	5 U	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	0.4 U	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	9.3 U	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	---	---	---
						0.1 U		
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	0.06 U	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	0.01 U	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	0.01 U	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	0.01 U	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	0.19	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	0.005 U	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	0.0002 U	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	0.05 U	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	0.01 U	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	0.03 U	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	0.03	---	---
						0.1 U		
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	0.50 U	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.71	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	10 U	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.

--- - Not analyzed, NA - Data not available

U - Not Detected, J - Estimated

TOD = 1.5 X CBOD5 + 4.5 X TKN

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

Analyte	Effluent 04/11/2001	Effluent 04/17/2001	Effluent 04/19/2001	Effluent 04/24/2001	Effluent 04/25/2001	Effluent 04/26/2001	Effluent 05/02/2001
Flow (GPD)	---	21338	21306	21266	---	20922	---
pH (SU)	---	8.2	8.18	8.19	---	8.2	---
Residue, non-filterable (mg/L)	5 U	5 U	---	---	5 U	---	5 U
Total dissolved solids (TDS) (mg/L)	960	680	---	---	720	---	820
CBOD5 (mg/L)	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	0.0002 U	---	---	---	---	0.0002 U
Nickel, total (mg/L)	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	0.03	---	---	---	---	0.01
cis-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	0.50 U
trans-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	0.50 U
Methylene chloride (ug/L)	---	2.0 U	---	---	---	---	2.0 U
1,1,2,2-Tetrachloroethane (ug/L)	---	0.50 U	---	---	---	---	0.50 U
Tetrachloroethene (ug/L)	---	0.50 U	---	---	---	---	0.50 U
Toluene (ug/L)	---	0.50 U	---	---	---	---	0.50 U
Trichloroethene (ug/L)	---	0.50 U	---	---	---	---	0.50 U
Acetone (ug/L)	---	10 U	---	---	---	---	10 U
2-Hexanone (ug/L)	---	5.0 U	---	---	---	---	5.0 U
4-Methyl-2-pentanone (MIBK) (ug/L)	---	5.0 U	---	---	---	---	5.0 U

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.

--- - Not analyzed, NA - Data not available

U - Not Detected, J - Estimated

TOD = 1.5 X CBOD5 + 4.5 X TKN

ATTACHMENT A

**SPDES PERMIT COMPLIANCE MONITORING
LABORATORY ANALYTICAL DATA SHEETS**

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S3485
Samp. Description: WTP Effluent (Grab)
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 14

Collected: 04/04/01
Received: 04/04/01
Prepared: 04/08/01

Matrix: Water
QC Batch: 040801W3
% Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	04/08/01	
Methylene chloride	<2.0		1	04/08/01	
trans-1,2-Dichloroethene	<.50		1	04/08/01	
cis-1,2-Dichloroethene	<.50		1	04/08/01	
Trichloroethene	.71		1	04/08/01	
4-Methyl-2-pentanone	<5.0		1	04/08/01	
Toluene	<.50		1	04/08/01	
2-Hexanone	<5.0		1	04/08/01	
Tetrachloroethene	<.50		1	04/08/01	
1,1,2,2-Tetrachloroethane	<.50		1	04/08/01	
Dibromofluoromethane (surrogate)	117.%	70-131	1	04/08/01	
1,2-Dichloroethane-d4 (surrogate)	99.%	81-120	1	04/08/01	
Toluene-d8 (surrogate)	114.%	83-117	1	04/08/01	
Bromofluorobenzene (surrogate)	106.%	78-119	1	04/08/01	

Notes:

- Outside control limits J-Estimated value
E - Concentration exceeded the calibration range and is estimated

Authorized: Monika Santucci
Date: April 11, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S3483
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 04/04/01
Received: 04/04/01
Prepared: 04/09/01
Analyzed: 04/09/01

Matrix: Water
QC Batch: 040901W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<50.	U	1	
Bromodichloromethane	<50.	U	1	
Bromoform	<500.	U	1	
Bromomethane	<500.	U	1	
Carbon tetrachloride	<50.	U	1	
Chlorobenzene	<50.	U	1	
Chloroethane	<50.	U	1	
2-Chloroethylvinyl ether	<500.	U	1	
Chloroform	<50.	U	1	
Chloromethane	<500.	U	1	
Dibromochloromethane	<50.	U	1	
1,2-Dichlorobenzene	<250.	U	1	
1,3-Dichlorobenzene	<250.	U	1	
1,4-Dichlorobenzene	<250.	U	1	
Dichlorodifluoromethane	<500.	U	1	
1,1-Dichloroethane	<50.	U	1	
1,2-Dichloroethane	<50.	U	1	
1,1-Dichloroethylene	<50.	U	1	
cis-1,2-Dichloroethylene	<50.	U	1	
trans-1,2-Dichloroethylene	<50.	U	1	
Dichloromethane	<50.	U	1	
1,2-Dichloropropane	<50.	U	1	
cis-1,3-Dichloropropylene	<50.	U	1	
trans-1,3-Dichloropropylene	<50.	U	1	
Ethylbenzene	<50.	U	1	
1,1,2,2-Tetrachloroethane	<50.	U	1	
Tetrachloroethylene	<50.	U	1	
Toluene	<50.	U	1	
1,1,1-Trichloroethane	<50.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: April 10, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S3483
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 04/04/01 Matrix: Water
Received: 04/04/01 QC Batch: 040901W1
Prepared: 04/09/01 %Solids:
Analyzed: 04/09/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<50.	U	1	
Trichloroethylene	950.		1	
Trichlorofluoromethane	<50.	U	1	
Vinyl Chloride	<50.	U	1	
Xylenes (total)	<150.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	96.%		1	76-121	
Fluorobenzene (surrogate)	94.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: April 10, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S3484
Samp. Description: WTP Between GAC's
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 04/04/01
Received: 04/04/01
Prepared: 04/09/01
Analyzed: 04/09/01

Matrix: Water
QC Batch: 040901W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	<1.	U	1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: April 10, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S3484
Samp. Description: WTP Between GAC's
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 04/04/01 Matrix: Water
Received: 04/04/01 QC Batch: 040901W1
Prepared: 04/09/01 %Solids:
Analyzed: 04/09/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<1.	U	1	
Trichloroethylene	<1.	U	1	
Trichlorofluoromethane	<1.	U	1	
Vinyl Chloride	<1.	U	1	
Xylenes (total)	<3.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	100.%		1	76-121	
Fluorobenzene (surrogate)	93.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: April 10, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S3486
Samp. Description: WTP Effluent (Composite)
Units: mg/L

Collected: 04/04/01 Matrix: Water
Received: 04/04/01 %Solids:
Number of analytes: 11

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Antimony	<.06	200.7	04/11/01	04/20/01	041101W3		1
Chromium	<.01	200.7	04/11/01	04/20/01	041101W3		1
Cobalt	<.01	200.7	04/11/01	04/20/01	041101W3		1
Copper	<.01	200.7	04/11/01	04/20/01	041101W3		1
Iron	.19	200.7	04/11/01	04/20/01	041101W3		1
Lead	<.005	200.7	04/11/01	04/20/01	041101W3		1
Mercury	<.0002	245.1	04/10/01	04/12/01	041001W2		1
Nickel	<.05	200.7	04/11/01	04/20/01	041101W3		1
Silver	<.01	200.7	04/11/01	04/20/01	041101W3		1
Vanadium	<.03	200.7	04/11/01	04/20/01	041101W3		1
Zinc	.03	200.7	04/11/01	04/20/01	041101W3		1

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: April 22, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S3487
Samp. Description: WTP Effluent (Lab Filter)
Units: mg/L

Collected: 04/04/01 Matrix: Water
Received: 04/04/01 %Solids:
Number of analytes: 1

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Aluminum, filtered	<.1	200.7	04/11/01	04/20/01	041101W3		1

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: April 22, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S3486
Samp. Description: WTP Effluent (Composite)

Collected: 04/04/01 11:54 Matrix: Water
Received: 04/04/01 15:35

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
C8005	<5. mg/L	SM5210B		04/05/01	040501W13	
Total Kjeldahl nitrogen	<.4 mg/L	EPA 351.2	04/09/01	04/12/01	040901W1	
Total dissolved solids	640. mg/L	EPA 160.1		04/05/01	040501W21	
Total suspended solids	<5. mg/L	EPA 160.2		04/06/01	040601W21	

Notes:

J-Estimated value

Authorized: Monika Santucci

Date: April 13, 2001 Monika Santucci

8592

Client: OGINA						Analysis/Method									
Project: FORMER ACCURATE DIE						VOCs EPA METH 8021 VOCs EPA METH 8021 VOCs EPA METH 8260 METALS + ALUM TSS/TDS + CBODs TKN									
Sampled by:															
Client Contact: AL FARRELL Phone # 2314															
Sample Description															
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers										
WTP INFLUENT	4/4/01	8:48 AM	WATER	GRAB	2	X									
WTP BETWEEN CACS	4/4/01	8:50 AM	WATER	GRAB	2		X								
WTP EFFLUENT	4/4/01	8:52 AM	WATER	GRAB	2			X							
WTP EFFLUENT	4/4/01	11:50 AM	WATER	COMP	2				X						
WTP EFFLUENT	4/4/01	11:54 AM	WATER	COMP	2					X					
WTP EFFLUENT	4/4/01	11:56 AM	WATER	COMP	1							X			
Relinquished by:			Date:		Time:		Received by:			Date:		Time:			
Relinquished by:			Date:		Time:		Received by:			Date:		Time:			
Relinquished by: <i>[Signature]</i>			Date: 4/4/01		Time: 1535		Received by Lab: <i>[Signature]</i>			Date: 4/4/01		Time: 1535			
Shipment Method: HAND DELIVERED						Airbill Number:									

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S3986
Samp. Description: WTP Effluent

Collected: 04/11/01 Matrix: Water
Received: 04/11/01 15:37

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	960. mg/L	EPA 160.1		04/13/01	041301W21	
Total suspended solids	<5. mg/L	EPA 160.2		04/13/01	041301W22	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: April 17, 2001 Monika Santucci

43651

[illegible]

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S4269
Samp. Description: Effluent - Grab
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 04/17/01
Received: 04/17/01
Prepared: 04/26/01
Matrix: Water
QC Batch: 042601W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	04/26/01	
Methylene chloride	<2.0		1	04/26/01	
trans-1,2-Dichloroethene	<.50		1	04/26/01	
cis-1,2-Dichloroethene	<.50		1	04/26/01	
Trichloroethene	<.50		1	04/26/01	
4-Methyl-2-pentanone	<5.0		1	04/26/01	
Toluene	<.50		1	04/26/01	
2-Hexanone	<5.0		1	04/26/01	
Tetrachloroethene	<.50		1	04/26/01	
1,1,2,2-Tetrachloroethane	<.50		1	04/26/01	
Dibromofluoromethane (surrogate)	100.%	70-131	1	04/26/01	
1,2-Dichloroethane-d4 (surrogate)	94.%	81-120	1	04/26/01	
Toluene-d8 (surrogate)	101.%	83-117	1	04/26/01	
Bromofluorobenzene (surrogate)	95.%	78-119	1	04/26/01	

Notes:

- Outside control limits J-Estimated value
E - Concentration exceeded the calibration range and is estimated

Authorized: 
Date: April 27, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S4268
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 04/17/01
Received: 04/17/01
Prepared: 04/18/01
Analyzed: 04/18/01

Matrix: Water
QC Batch: 041801W1
% Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	<1.	U	1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: 
Date: April 24, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S4268
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 04/17/01 Matrix: Water
Received: 04/17/01 QC Batch: 041801W1
Prepared: 04/18/01 %Solids:
Analyzed: 04/18/01 Sample Size: 5 ml

Number of analytes: 34

Parameter

1,1,2-Trichloroethane
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride
Xylenes (total)

Result	Qual	Col	Notes
<1.	U	1	
<1.	U	1	
<1.	U	1	
<1.	U	1	
<3.	U	1	

Surrogate

2-Chloropropane (surrogate)
Fluorobenzene (surrogate)

Result	Qual	Col	Limits	Notes
91.%		1	76-121	
100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: April 24, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S4270
Samp. Description: Effluent - Composite
Units: mg/L

Collected: 04/17/01 Matrix: Water
Received: 04/17/01 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	04/25/01	04/26/01	042501W2	1	
Zinc	.03	200.7	04/23/01	04/25/01	042301W2	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: May 1, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S4270
Samp. Description: Effluent - Composite

Collected: 04/17/01 Matrix: Water
Received: 04/17/01 15:15

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	680. mg/L	EPA 160.1		04/19/01	041901W21	
Total suspended solids	<5. mg/L	EPA 160.2		04/19/01	041901W25	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: April 20, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Chain of Custody

5103

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S4613
Samp. Description: WTP Effluent

Collected: 04/25/01 Matrix: Water
Received: 04/25/01 15:30

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	720. mg/L	EPA 160.1		04/30/01	043001W22	
Total suspended solids	<5. mg/L	EPA 160.2		05/01/01	050101W24	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: May 6, 2001 Monika Santucci

8773

[illegible]

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S4994
Samp. Description: WTP Effluent - Grab
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 14

Collected: 05/02/01
Received: 05/02/01
Prepared: 05/03/01
Matrix: Water
QC Batch: 050301W1
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	05/03/01	
Methylene chloride	<2.0		1	05/03/01	
trans-1,2-Dichloroethene	<.50		1	05/03/01	
cis-1,2-Dichloroethene	<.50		1	05/03/01	
Trichloroethene	<.50		1	05/03/01	
4-Methyl-2-pentanone	<5.0		1	05/03/01	
Toluene	<.50		1	05/03/01	
2-Hexanone	<5.0		1	05/03/01	
Tetrachloroethene	<.50		1	05/03/01	
1,1,2,2-Tetrachloroethane	<.50		1	05/03/01	
Dibromofluoromethane (surrogate)	99.%	70-131	1	05/03/01	
1,2-Dichloroethane-d4 (surrogate)	94.%	81-120	1	05/03/01	
Toluene-d8 (surrogate)	98.%	83-117	1	05/03/01	
Bromofluorobenzene (surrogate)	93.%	78-119	1	05/03/01	

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 

Date: May 4, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S4992
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 05/02/01
Received: 05/02/01
Prepared: 05/08/01
Analyzed: 05/08/01

Matrix: Water
QC Batch: 050801W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<50.	U	1	
Bromodichloromethane	<50.	U	1	
Bromoform	<500.	U	1	
Bromomethane	<500.	U	1	
Carbon tetrachloride	<50.	U	1	
Chlorobenzene	<50.	U	1	
Chloroethane	<50.	U	1	
2-Chloroethylvinyl ether	<500.	U	1	
Chloroform	<50.	U	1	
Chloromethane	<500.	U	1	
Dibromochloromethane	<50.	U	1	
1,2-Dichlorobenzene	<250.	U	1	
1,3-Dichlorobenzene	<250.	U	1	
1,4-Dichlorobenzene	<250.	U	1	
Dichlorodifluoromethane	<500.	U	1	
1,1-Dichloroethane	<50.	U	1	
1,2-Dichloroethane	<50.	U	1	
1,1-Dichloroethylene	<50.	U	1	
cis-1,2-Dichloroethylene	<50.	U	1	
trans-1,2-Dichloroethylene	<50.	U	1	
Dichloromethane	<50.	U	1	
1,2-Dichloropropane	<50.	U	1	
cis-1,3-Dichloropropylene	<50.	U	1	
trans-1,3-Dichloropropylene	<50.	U	1	
Ethylbenzene	<50.	U	1	
1,1,2,2-Tetrachloroethane	<50.	U	1	
Tetrachloroethylene	<50.	U	1	
Toluene	<50.	U	1	
1,1,1-Trichloroethane	<50.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 8, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S4992
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 05/02/01
Received: 05/02/01
Prepared: 05/08/01
Analyzed: 05/08/01

Matrix: Water
QC Batch: 050801W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<50.	U	1	
Trichloroethylene	1100.		1	
Trichlorofluoromethane	<50.	U	1	
Vinyl Chloride	<50.	U	1	
Xylenes (total)	<150.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	98.%		1	76-121	
Fluorobenzene (surrogate)	100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: May 8, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S4993
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 05/02/01
Received: 05/02/01
Prepared: 05/08/01
Analyzed: 05/08/01

Matrix: Water
QC Batch: 050801W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	<1.	U	1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: May 8, 2001

Monika Santucci
Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S4993
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 05/02/01
Received: 05/02/01
Prepared: 05/08/01
Analyzed: 05/08/01

Matrix: Water
QC Batch: 050801W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<1.	U	1	
Trichloroethylene	<1.	U	1	
Trichlorofluoromethane	<1.	U	1	
Vinyl Chloride	<1.	U	1	
Xylenes (total)	<3.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	88.%		1	76-121	
Fluorobenzene (surrogate)	104.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 8, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S4995
Samp. Description: WTP Effluent - Composite

Collected: 05/02/01 Matrix: Water
Received: 05/02/01 15:15

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	820. mg/L	EPA 160.1		05/07/01	050701W23	
Total suspended solids	<5. mg/L	EPA 160.2		05/07/01	050701W21	

Notes:

J-Estimated value

Authorized: 

Date: May 11, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S4995
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 05/02/01 Matrix: Water
Received: 05/02/01 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	05/03/01	05/04/01	050301W2	1	
Zinc	.01	200.7	05/07/01	05/09/01	050701W2	1	

Notes:

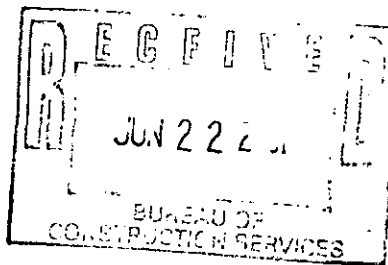
J-Estimated value

Authorized: Monika Santucci
Date: May 18, 2001 Monika Santucci



O'BRIEN & GERE
ENGINEERS, INC.

June 18, 2001



Mr. David Crosby, P.E.
Bureau of Construction Services - Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/25463 #2

Dear Mr. Crosby:

This letter presents the status of groundwater treatment plant operations for the former Accurate Die Casting site in Fayetteville, New York for May 2001. This report 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:

1. As of June 1, 2001, a total of 41,949,130 gallons of groundwater has been treated since startup on February 5, 1996. Since May 1, 2001, 622,480 gallons of groundwater was treated; 389,490 gallons from recovery well RW-1 and 232,990 gallons from recovery well RW-2. No groundwater was recovered from either the sump located outside the northeast corner of the building or the groundwater collection trench constructed in the former VOC/PAH/PCB Soils Area.
2. 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 in May 2001 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

Activities Scheduled:

1. Continued operation of the ground water recovery and treatment system, including SPDES monitoring.



O'Brien & Gere Engineers, Inc., an O'Brien & Gere company
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(315) 437-6100 / FAX (315) 463-7554 • [http:// www.obg.com](http://www.obg.com)
... and offices in major U.S. cities

Mr. David Crosby, P.E.

June 18, 2001

Page 2

If you have any questions regarding this report, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

A handwritten signature in black ink, appearing to read 'Alfred R. Farrell'.

Alfred R. Farrell, P.E.
Senior Project Engineer

I:\DIV71\PROJECTS\2488\23123\2_CORRES\5-2001MOR.doc
Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation – NYSDOH
H. Hamel – NYSDOH
M. Peters, Esq – LeBoeuf, Lamb, Greene & MacRae
P. Anderson – The Anderson Company

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

Analyte (units)	Monitoring Requirements				Effluent	Effluent	Effluent	Effluent
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type	05/01/2001	05/02/2001	05/03/2001	05/08/2001
Flow (GPD)	Monitor	150000	Continuous	Meter	20760	---	20483	20390
pH (SU)	6.5 - 8.5		2/Week	Grab	8.19	---	8.2	8.21
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.	---	820	---	---
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	---	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	---	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	0.0002 U	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	0.01	---	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	0.50 U	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	10 U	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.

--- - Not analyzed, NA - Data not available

U - Not Detected, J - Estimated

TOD = 1.5 X CBOD5 + 4.5 X TKN

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

Analyte	Effluent 05/09/2001	Effluent 05/10/2001	Effluent 05/15/2001	Effluent 05/16/2001	Effluent 05/17/2001	Effluent 05/22/2001	Effluent 05/23/2001	Effluent 05/24/2001
Flow (GPD)	---	20271	20200	---	20054	19814	---	19111
pH (SU)	---	8.18	8.19	---	8.18	8.21	---	8.19
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	760	---	---	810	---	---	790	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	0.0002 U	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	0.01 U	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	0.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Toluene (ug/L)	---	---	---	0.50 U	---	---	---	---
Trichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Acetone (ug/L)	---	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.
 --- - Not analyzed, NA - Data not available
 U - Not Detected, J - Estimated
 TOD = 1.5 X CBOD5 + 4.5 X TKN

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

Analyte	Effluent 05/29/2001	Effluent 05/30/2001	Effluent 05/31/2001
Flow (GPD)	19848	---	19790
pH (SU)	8.19	---	8.21
Residue, non-filterable (mg/L)	---	5 U	---
Total dissolved solids (TDS) (mg/L)	---	850	---
CBOD5 (mg/L)	---	---	---
TKN (mg/L)	---	---	---
TOD (mg/L)	---	---	---
Dissolved Oxygen (mg/L)	---	---	---
Aluminum, dissolved (mg/L)	---	---	---
Antimony, total (mg/L)	---	---	---
Chromium, total (mg/L)	---	---	---
Cobalt, total (mg/L)	---	---	---
Copper, total (mg/L)	---	---	---
Iron, total (mg/L)	---	---	---
Lead, total (mg/L)	---	---	---
Mercury, total (mg/L)	---	---	---
Nickel, total (mg/L)	---	---	---
Silver, total (mg/L)	---	---	---
Vanadium, 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)	---	---	---
Acetone (ug/L)	---	---	---
2-Hexanone (ug/L)	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.
 --- - Not analyzed, NA - Data not available
 U - Not Detected, J - Estimated
 TOD = 1.5 X CBOD5 + 4.5 X TKN

ATTACHMENT A

**SPDES PERMIT COMPLIANCE MONITORING
LABORATORY ANALYTICAL DATA SHEETS**

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

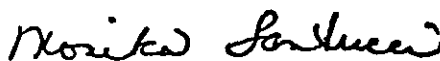
Sample: S4994
Samp. Description: WTP Effluent - Grab
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 14

Collected: 05/02/01
Received: 05/02/01
Prepared: 05/03/01
Matrix: Water
QC Batch: 050301W1
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog		Analyzed	Notes
		Limits	Dilution		
Acetone	<10.		1	05/03/01	
Methylene chloride	<2.0		1	05/03/01	
trans-1,2-Dichloroethene	<.50		1	05/03/01	
cis-1,2-Dichloroethene	<.50		1	05/03/01	
Trichloroethene	<.50		1	05/03/01	
4-Methyl-2-pentanone	<5.0		1	05/03/01	
Toluene	<.50		1	05/03/01	
2-Hexanone	<5.0		1	05/03/01	
Tetrachloroethene	<.50		1	05/03/01	
1,1,2,2-Tetrachloroethane	<.50		1	05/03/01	
Dibromofluoromethane (surrogate)	99.%	70-131	1	05/03/01	
1,2-Dichloroethane-d4 (surrogate)	94.%	81-120	1	05/03/01	
Toluene-d8 (surrogate)	98.%	83-117	1	05/03/01	
Bromofluorobenzene (surrogate)	93.%	78-119	1	05/03/01	

Notes:

- Outside control limits J-Estimated value
E - Concentration exceeded the calibration range and is estimated

Authorized: 
Date: May 4, 2001
Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S4992
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 05/02/01
Received: 05/02/01
Prepared: 05/08/01
Analyzed: 05/08/01

Matrix: Water
QC Batch: 050801W1
% Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<50.	U	1	
Bromodichloromethane	<50.	U	1	
Bromoform	<500.	U	1	
Bromomethane	<500.	U	1	
Carbon tetrachloride	<50.	U	1	
Chlorobenzene	<50.	U	1	
Chloroethane	<50.	U	1	
2-Chloroethylvinyl ether	<500.	U	1	
Chloroform	<50.	U	1	
Chloromethane	<500.	U	1	
Dibromochloromethane	<50.	U	1	
1,2-Dichlorobenzene	<250.	U	1	
1,3-Dichlorobenzene	<250.	U	1	
1,4-Dichlorobenzene	<250.	U	1	
Dichlorodifluoromethane	<500.	U	1	
1,1-Dichloroethane	<50.	U	1	
1,2-Dichloroethane	<50.	U	1	
1,1-Dichloroethylene	<50.	U	1	
cis-1,2-Dichloroethylene	<50.	U	1	
trans-1,2-Dichloroethylene	<50.	U	1	
Dichloromethane	<50.	U	1	
1,2-Dichloropropane	<50.	U	1	
cis-1,3-Dichloropropylene	<50.	U	1	
trans-1,3-Dichloropropylene	<50.	U	1	
Ethylbenzene	<50.	U	1	
1,1,2,2-Tetrachloroethane	<50.	U	1	
Tetrachloroethylene	<50.	U	1	
Toluene	<50.	U	1	
1,1,1-Trichloroethane	<50.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: May 8, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S4992
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 05/02/01 Matrix: Water
Received: 05/02/01 QC Batch: 050801W1
Prepared: 05/08/01 %Solids:
Analyzed: 05/08/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<50.	U	1	
Trichloroethylene	1100.		1	
Trichlorofluoromethane	<50.	U	1	
Vinyl Chloride	<50.	U	1	
Xylenes (total)	<150.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	98. %		1	76-121	
Fluorobenzene (surrogate)	100. %		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 8, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S4993
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 05/02/01
Received: 05/02/01
Prepared: 05/08/01
Analyzed: 05/08/01

Matrix: Water
QC Batch: 050801W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	<1.	U	1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: May 8, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S4993
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 05/02/01 Matrix: Water
Received: 05/02/01 QC Batch: 050801W1
Prepared: 05/08/01 %Solids:
Analyzed: 05/08/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<1.	U	1	
Trichloroethylene	<1.	U	1	
Trichlorofluoromethane	<1.	U	1	
Vinyl Chloride	<1.	U	1	
Xylenes (total)	<3.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	88.%		1	76-121	
Fluorobenzene (surrogate)	104.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 8, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S4995
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 05/02/01 Matrix: Water
Received: 05/02/01 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	05/03/01	05/04/01	050301W2	1	
Zinc	.01	200.7	05/07/01	05/09/01	050701W2	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: May 18, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S4995
Samp. Description: WTP Effluent - Composite

Collected: 05/02/01 Matrix: Water
Received: 05/02/01 15:15

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	820. mg/L	EPA 160.1		05/07/01	050701W23	
Total suspended solids	<5. mg/L	EPA 160.2		05/07/01	050701W21	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: May 11, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

8846

Client: <u>OG/INT</u>						Analysis/Method											
Project: <u>FORMER ACCURATE DIE</u>						VOLs EPA METH 8021 VOLs EPA METH 8021 VOLs EPA METH 8021 2N + H⁺ TSS/TDS											
Sampled by: <u>JERRY BORN</u>																	
Client Contact: <u>AL FARRELL</u> Phone # <u>2316</u>																	
Sample Description																	
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers												
WTP INFLUENT	5/2/01	6:58 AM	WATER	GRAB	2	+											
WTP BETWEEN GACS	5/2/01	7:00 AM	WATER	GRAB	2		+										
WTP EFFLUENT	5/2/01	7:02 AM	WATER	GRAB	2			+									
WTP EFFLUENT	5/2/01	10:03 AM	WATER	COMP	1				+								
WTP EFFLUENT	5/2/01	10:05 AM	WATER	COMP	1					+							
Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: _____ Time: _____											
Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: _____ Time: _____											
Relinquished by: <u>Jerry Born</u> Date: <u>5/2/01</u> Time: <u>10:15</u>						Received by Lab: <u>Mark F. Jackson</u> Date: <u>5/2/01</u> Time: <u>15:15</u>											
Shipment Method: <u>HAND DELIVERED</u>						Airbill Number: _____											

Turnaround Time Required:

Routine X
Rush (Specify) _____

Comments:

Cooler Temperature: 20°

Original Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S5330
Samp. Description: WTP Effluent

Collected: 05/09/01
Received: 05/09/01 15:45
Matrix: Water

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	760. mg/L	EPA 160.1		05/11/01	051101W21	
Total suspended solids	<5. mg/L	EPA 160.2		05/15/01	051501W21	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: May 22, 2001
Monika Santucci

8905

[illegible]

Original Laboratory Copy Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S5680
Samp. Description: WTP Effluent - Grab
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 05/16/01
Received: 05/16/01
Prepared: 05/20/01
Matrix: Water
QC Batch: 052001W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	05/20/01	
Methylene chloride	<2.0		1	05/20/01	
trans-1,2-Dichloroethene	<.50		1	05/20/01	
cis-1,2-Dichloroethene	<.50		1	05/20/01	
Trichloroethene	<.50		1	05/20/01	
4-Methyl-2-pentanone	<5.0		1	05/20/01	
Toluene	<.50		1	05/20/01	
2-Hexanone	<5.0		1	05/20/01	
Tetrachloroethene	<.50		1	05/20/01	
1,1,2,2-Tetrachloroethane	<.50		1	05/20/01	
Dibromofluoromethane (surrogate)	108.%	70-131	1	05/20/01	
1,2-Dichloroethane-d4 (surrogate)	103.%	81-120	1	05/20/01	
Toluene-d8 (surrogate)	100.%	83-117	1	05/20/01	
Bromofluorobenzene (surrogate)	100.%	78-119	1	05/20/01	

Notes:

- Outside control limits J-Estimated value
E - Concentration exceeded the calibration range and is estimated

Authorized: 
Date: May 23, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S5681
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 05/16/01 Matrix: Water
Received: 05/16/01 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut. Note
Mercury	<.0002	245.1	05/18/01	05/19/01	051801W2	1
zinc	<.01	200.7	05/21/01	05/23/01	052101W2	1

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: May 30, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S5681
Samp. Description: WTP Effluent - Composite

Collected: 05/16/01
Received: 05/16/01 14:20
Matrix: Water

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	810. mg/L	EPA 160.1		05/17/01	051701W22	
Total suspended solids	<5. mg/L	EPA 160.2		05/17/01	051701W23	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: May 22, 2001
Monika Santucci

Chain of Custody

8974

Client: OGINA						Analysis/Method									
Project: FORMER ACCURATE DIE						VOCs EPA METHOD- 8260 2w+Hg TSS/TDS									
Sampled by:															
Client Contact: AL FARRELL Phone # 2316															
Sample Description															
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers									Comments	
WTP EFFLUENT	5/16/01	8:45 AM	WATER	GRAB	2	X									
WTP EFFLUENT	5/16/01	10:32 AM	WATER	COMP	1		X								
WTP EFFLUENT	5/16/01	10:30 AM	WATER	COMP	1			X							
Relinquished by:						Date:		Time:		Received by:		Date:		Time:	
Relinquished by:						Date:		Time:		Received by:		Date:		Time:	
Relinquished by: [Signature]						Date: 4/16/01		Time: 12:20		Received by Lab: [Signature]		Date: 9/16/01		Time: 14:20	
Shipment Method: HAND DELIVERED						Airbill Number:									

Original Laboratory Copy Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S6187
Samp. Description: WTP Effluent

Collected: 05/23/01 Matrix: Water
Received: 05/23/01 15:15

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	790. mg/L	EPA 160.1		05/30/01	053001W29	
Total suspended solids	<5. mg/L	EPA 160.2		05/25/01	052501W25	

Notes:

J-Estimated value

Authorized: 

Date: May 31, 2001

Monika Santucci

9046

Original Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S6383
Samp. Description: WTP Effluent

Collected: 05/30/01 Matrix: Water
Received: 05/30/01 15:35

Parameter	Result Units	Method	Prepared Analyzed	QC Batch	Note
Total dissolved solids	850. mg/L	EPA 160.1	06/06/01	060601W23	
Total suspended solids	<5. mg/L	EPA 160.2	06/04/01	060401W21	

Notes:

J-Estimated value

Authorized: Monika Santucci

Date: June 8, 2001

Monika Santucci

Chain of Custody

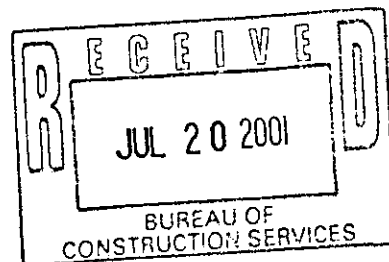
908

[illegible]**Comments:**

Original Laboratory Copy-Client



July 17, 2001



Mr. David Crosby, P.E.
Bureau of Construction Services - Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/25463 #2

Dear Mr. Crosby:

This letter presents the status of groundwater treatment plant operations for the former Accurate Die Casting site in Fayetteville, New York for June 2001. This report 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:

1. As of June 29, 2001, a total of 42,502,850 gallons of groundwater has been treated since startup on February 5, 1996. Since June 1, 2001, 553,720 gallons of groundwater was treated; 345,500 gallons from recovery well RW-1 and 208,200 gallons from recovery well RW-2; 10 gallons from the sump located outside the northeast corner of the building; and 10 gallons from the groundwater collection trench constructed in the former VOC/PAH/PCB Soils Area.
2. 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 in June 2001 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

Activities Scheduled:

1. Continued operation of the ground water recovery and treatment system, including SPDES monitoring.



O'Brien & Gere Engineers, Inc., an O'Brien & Gere company
5000 Brittonfield Parkway / P.O. Box 4873, Syracuse, New York 13221-4873
(315) 437-6100 / FAX (315) 463-7554 • [http:// www.obg.com](http://www.obg.com)
... and offices in major U.S. cities

Mr. David Crosby, P.E.
July 17, 2001
Page 2

If you have any questions regarding this report, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

A handwritten signature in cursive script, appearing to read 'Alfred R. Farrell'.

Alfred R. Farrell, P.E.
Senior Project Engineer

I:\DIV71\PROJECTS\2488\23123\2_CORRES\6-2001MOR.doc
Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation – NYSDOH
H. Hamel – NYSDOH
M. Peters, Esq – LeBoeuf, Lamb, Greene & MacRae
P. Anderson – The Anderson Company

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

Analyte (units)	Monitoring Requirements				Effluent	Effluent	Effluent	Effluent
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type	06/05/2001	06/06/2001	06/07/2001	06/12/2001
Flow (GPD)	Monitor	150000	Continuous	Meter	19690	---	19617	19650
pH (SU)	6.5 - 8.5		2/Week	Grab	8.21	---	8.21	8.21
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.	---	800	---	---
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	---	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	---	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	.0002 U	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	.02	---	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	.50 U	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	.50 U	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	.50 U	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	.50 U	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	.50 U	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	10 U	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.

--- - Not analyzed, NA - Data not available

U - Not Detected, J - Estimated

TOD = 1.5 X CBOD5 + 4.5 X TKN

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

Analyte	Effluent 06/13/2001	Effluent 06/14/2001	Effluent 06/19/2001	Effluent 06/20/2001	Effluent 06/21/2001	Effluent 06/26/2001	Effluent 06/27/2001	Effluent 06/28/2001
Flow (GPD)	---	19510	19520	---	19510	19690	---	19540
pH (SU)	---	8.19	8.19	---	8.21	8.21	---	8.21
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	880	---	---	900	---	---	800	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	.0002 U	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	.02	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	.50 U	---	---	---	---
Toluene (ug/L)	---	---	---	.50 U	---	---	---	---
Trichloroethene (ug/L)	---	---	---	.50 U	---	---	---	---
Acetone (ug/L)	---	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.

--- - Not analyzed, NA - Data not available

U - Not Detected, J - Estimated

TOD = 1.5 X CBOD5 + 4.5 X TKN

ATTACHMENT A

**SPDES PERMIT COMPLIANCE MONITORING
LABORATORY ANALYTICAL DATA SHEETS**

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S6665
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 06/06/01
Received: 06/06/01
Prepared: 06/14/01
Analyzed: 06/14/01

Matrix: Water
QC Batch: 061401W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<50.	U	1	
Bromodichloromethane	<50.	U	1	
Bromoform	<500.	U	1	
Bromomethane	<500.	U	1	
Carbon tetrachloride	<50.	U	1	
Chlorobenzene	<50.	U	1	
Chloroethane	<50.	U	1	
2-Chloroethylvinyl ether	<500.	U	1	
Chloroform	<50.	U	1	
Chloromethane	<500.	U	1	
Dibromochloromethane	<50.	U	1	
1,2-Dichlorobenzene	<250.	U	1	
1,3-Dichlorobenzene	<250.	U	1	
1,4-Dichlorobenzene	<250.	U	1	
Dichlorodifluoromethane	<500.	U	1	
1,1-Dichloroethane	<50.	U	1	
1,2-Dichloroethane	<50.	U	1	
1,1-Dichloroethylene	<50.	U	1	
cis-1,2-Dichloroethylene	<50.	U	1	
trans-1,2-Dichloroethylene	<50.	U	1	
Dichloromethane	<50.	U	1	
1,2-Dichloropropane	<50.	U	1	
cis-1,3-Dichloropropylene	<50.	U	1	
trans-1,3-Dichloropropylene	<50.	U	1	
Ethylbenzene	<50.	U	1	
1,1,2,2-Tetrachloroethane	<50.	U	1	
Tetrachloroethylene	<50.	U	1	
Toluene	<50.	U	1	
1,1,1-Trichloroethane	<50.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: June 15, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S6665
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 06/06/01
Received: 06/06/01
Prepared: 06/14/01
Analyzed: 06/14/01

Matrix: Water
QC Batch: 061401W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<50.	U	1	
Trichloroethylene	1000.		1	
Trichlorofluoromethane	<50.	U	1	
Vinyl Chloride	<50.	U	1	
Xylenes (total)	<150.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	107.%		1	76-121	
Fluorobenzene (surrogate)	100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: June 15, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S6666
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 06/06/01
Received: 06/06/01
Prepared: 06/14/01
Analyzed: 06/14/01

Matrix: Water
QC Batch: 061401W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	4.		1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: June 15, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S6666
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 06/06/01
Received: 06/06/01
Prepared: 06/14/01
Analyzed: 06/14/01

Matrix: Water
QC Batch: 061401W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<1.	U	1	
Trichloroethylene	31.		1	
Trichlorofluoromethane	<1.	U	1	
Vinyl Chloride	<1.	U	1	
Xylenes (total)	<3.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	95.%		1	76-121	
Fluorobenzene (surrogate)	99.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: June 15, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

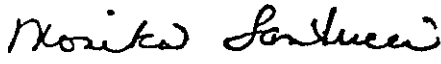
Sample: S6667
Samp. Description: WTP Effluent - Grab
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 14

Collected: 06/06/01
Received: 06/06/01
Prepared: 06/15/01
Matrix: Water
QC Batch: 061501W1
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	06/15/01	
Methylene chloride	<2.0		1	06/15/01	
trans-1,2-Dichloroethene	<.50		1	06/15/01	
cis-1,2-Dichloroethene	<.50		1	06/15/01	
Trichloroethene	<.50		1	06/15/01	
4-Methyl-2-pentanone	<5.0		1	06/15/01	
Toluene	<.50		1	06/15/01	
2-Hexanone	<5.0		1	06/15/01	
Tetrachloroethene	<.50		1	06/15/01	
1,1,2,2-Tetrachloroethane	<.50		1	06/15/01	
Dibromofluoromethane (surrogate)	81.%	70-131	1	06/15/01	
1,2-Dichloroethane-d4 (surrogate)	84.%	81-120	1	06/15/01	
Toluene-d8 (surrogate)	99.%	83-117	1	06/15/01	
Bromofluorobenzene (surrogate)	86.%	78-119	1	06/15/01	

Notes:

- Outside control limits J-Estimated value
E - Concentration exceeded the calibration range and is estimated

Authorized: 
Date: June 18, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S6668
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 06/06/01 Matrix: Water
Received: 06/06/01 % Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	06/12/01	06/12/01	061201W1	1	
Zinc	.02	200.7	06/11/01	06/12/01	061101W3	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: June 15, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S6668
Samp. Description: WTP Effluent - Composite

Collected: 06/06/01 Matrix: Water
Received: 06/06/01 15:20

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	800. mg/L	EPA 160.1		06/12/01	061201W21	
Total suspended solids	<5. mg/L	EPA 160.2		06/12/01	061201W22	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: June 19, 2001 Monika Santucci

Chain of Custody

9144

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O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S6925
Samp. Description: WTP Effluent

Collected: 06/13/01 Matrix: Water
Received: 06/13/01 14:55

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	880. mg/L	EPA 160.1		06/20/01	062001W22	
Total suspended solids	<5. mg/L	EPA 160.2		06/19/01	061901W22	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: June 22, 2001 Monika Santucci

Chain of Custody

920A

[illegible]**Comments:**

Original Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7287
Samp. Description: WTP Effluent - Grab
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 06/20/01
Received: 06/20/01
Prepared: 06/21/01

Matrix: Water
QC Batch: 062101W4
% Solids:
Purge volume: 25 mL

Parameter	Surrog			Analyzed	Notes
	Result	Limits	Dilution		
Acetone	<10.		1	06/21/01	
Methylene chloride	<2.0		1	06/21/01	
trans-1,2-Dichloroethene	<.50		1	06/21/01	
cis-1,2-Dichloroethene	<.50		1	06/21/01	
Trichloroethene	<.50		1	06/21/01	
4-Methyl-2-pentanone	<5.0		1	06/21/01	
Toluene	<.50		1	06/21/01	
2-Hexanone	<5.0		1	06/21/01	
Tetrachloroethene	<.50		1	06/21/01	
1,1,2,2-Tetrachloroethane	<.50		1	06/21/01	
Dibromofluoromethane (surrogate)	101.%	70-131	1	06/21/01	
1,2-Dichloroethane-d4 (surrogate)	96.%	81-120	1	06/21/01	
Toluene-d8 (surrogate)	105.%	83-117	1	06/21/01	
Bromofluorobenzene (surrogate)	102.%	78-119	1	06/21/01	

Notes:

- Outside control limits J-Estimated value
E - Concentration exceeded the calibration range and is estimated

Authorized: 
Date: June 25, 2001
Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7288
Samp. Description: WTP Effluent - Composite

Collected: 06/20/01 Matrix: Water
Received: 06/20/01 15:50

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	900. mg/L	EPA 160.1		06/25/01	062501W21	
Total suspended solids	<5. mg/L	EPA 160.2		06/25/01	062501W22	

Notes:

J-Estimated value

Authorized: 
Date: June 26, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7288
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 06/20/01 Matrix: Water
Received: 06/20/01 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	06/22/01	06/22/01	062201W1	1	
Zinc	.02	200.7	06/22/01	06/26/01	062201W1	1	

Notes:

J-Estimated value

Authorized: 
Date: July 2, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Original Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7699
Samp. Description: WTP Effluent

Collected: 06/27/01 Matrix: Water
Received: 06/27/01 15:40

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	800. mg/L	EPA 160.1		06/29/01	062901W21	
Total suspended solids	<5. mg/L	EPA 160.2		06/29/01	062901W13	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: July 6, 2001 Monika Santucci

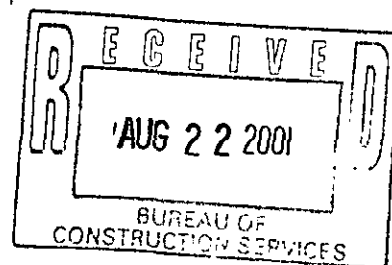
Chain of Custody

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Original-Laboratory Copy-Client



August 15, 2001



Mr. David Crosby, P.E.
Bureau of Construction Services - Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/25463 #2

Dear Mr. Crosby:

This letter presents the status of groundwater treatment plant operations for the former Accurate Die Casting site in Fayetteville, New York for July 2001. This report 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:

1. As of July 31, 2001, a total of 43,114,040 gallons of groundwater has been treated since startup on February 5, 1996. Since June 29, 2001, 611,190 gallons of groundwater was treated; 380,730 gallons from recovery well RW-1 and 230,460 gallons from recovery well RW-2. No water was recovered from the sump located outside the northeast corner of the building or the groundwater collection trench constructed in the former VOC/PAH/PCB Soils Area.
2. 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 in July 2001 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.
3. O'Brien & Gere completed the semi-annual round of ground water monitoring on July 3, 2001. During the sampling event, ground water was collected from ten monitoring wells MW-6, MW-9, MW-10, MW-11, MW-14, MW-17, MW-18, MW-21, MW-22, and MW-24. A sample of ground water was also collected from the sump located outside the northeast corner of the building. Monitoring well MW-19 could not be sampled as scheduled because the well was dry. The laboratory analytical data sheets are provided as Attachment B.

Activities Scheduled:

1. Continued operation of the ground water recovery and treatment system, including SPDES monitoring.



O'Brien & Gere Engineers, Inc., an O'Brien & Gere company
5000 Brittonfield Parkway / P.O. Box 4873, Syracuse, New York 13221-4873
(315) 437-6100 / FAX (315) 463-7554 • [http:// www.obg.com](http://www.obg.com)
... and offices in major U.S. cities

Mr. David Crosby, P.E.

August 15, 2001

Page 2

If you have any questions regarding this report, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

A handwritten signature in black ink, appearing to read 'A. Farrell', written in a cursive style.

Alfred R. Farrell, P.E.
Senior Project Engineer

I:\DIV71\PROJECTS\2488\23123\2_CORRES\7-2001MOR.doc
Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation – NYSDOH
H. Hamel – NYSDOH
M. Peters, Esq – LeBoeuf, Lamb, Greene & MacRae
P. Anderson – The Anderson Company

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

Analyte (units)	Monitoring Requirements				Effluent	Effluent	Effluent	Effluent
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type	07/03/2001	07/05/2001	07/10/2001	07/11/2001
Flow (GPD)	Monitor	150000	Continuous	Meter	19478	19506	19496	---
pH (SU)	6.5 - 8.5		2/Week	Grab	8.21	8.21	8.69	---
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.	---	5 U	---	5 U
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.	---	900	---	840
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	5 U	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	0.4 U	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	9.3 U	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	9.68	---	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	0.1 U	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	0.06 U	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	0.01 U	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	0.01 U	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	0.01 U	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	0.05 U	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	0.005 U	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	0.0002 U	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	0.05 U	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	0.01 U	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	0.03 U	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	0.01 U	---	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	0.50 U	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	10 U	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.

--- - Not analyzed, NA - Data not available

U - Not Detected, J - Estimated

TOD = 1.5 X CBOD5 + 4.5 X TKN

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

Analyte	Effluent 07/12/2001	Effluent 07/17/2001	Effluent 07/18/2001	Effluent 07/19/2001	Effluent 07/24/2001	Effluent 07/25/2001	Effluent 07/26/2001	Effluent 07/31/2001
Flow (GPD)	19450	19173	---	19190	19070	---	18970	18820
pH (SU)	8.47	8.34	---	8.30	8.23	---	8.23	8.21
Residue, non-filterable (mg/L)	---	---	5 U	---	---	5 U	---	---
Total dissolved solids (TDS) (mg/L)	---	---	950	---	---	840	---	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	0.0002 U	---	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	0.01 U	---	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
Methylene chloride (ug/L)	---	---	2.0 U	---	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	0.50 U	---	---	---	---	---
Tetrachloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
Toluene (ug/L)	---	---	0.50 U	---	---	---	---	---
Trichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
Acetone (ug/L)	---	---	10 U	---	---	---	---	---
2-Hexanone (ug/L)	---	---	5.0 U	---	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	5.0 U	---	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.

--- - Not analyzed, NA - Data not available

U - Not Detected, J - Estimated

TOD = 1.5 X CBOD5 + 4.5 X TKN

ATTACHMENT A

**SPDES PERMIT COMPLIANCE MONITORING
LABORATORY ANALYTICAL DATA SHEETS**

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7983
Samp. Description: WTP Effluent (Grab)
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 14

Collected: 07/05/01
Received: 07/05/01
Prepared: 07/11/01

Matrix: Water
QC Batch: 071001W1
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	07/11/01	
Methylene chloride	<2.0		1	07/11/01	
trans-1,2-Dichloroethene	<.50		1	07/11/01	
cis-1,2-Dichloroethene	<.50		1	07/11/01	
Trichloroethene	<.50		1	07/11/01	
4-Methyl-2-pentanone	<5.0		1	07/11/01	
Toluene	<.50		1	07/11/01	
2-Hexanone	<5.0		1	07/11/01	
Tetrachloroethene	<.50		1	07/11/01	
1,1,2,2-Tetrachloroethane	<.50		1	07/11/01	
Dibromofluoromethane (surrogate)	90.%	70-131	1	07/11/01	
1,2-Dichloroethane-d4 (surrogate)	101.%	81-120	1	07/11/01	
Toluene-d8 (surrogate)	102.%	83-117	1	07/11/01	
Bromofluorobenzene (surrogate)	86.%	78-119	1	07/11/01	

Notes:

- Outside control limits J-Estimated value
E - Concentration exceeded the calibration range and is estimated

Authorized: Monika Santucci
Date: July 11, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7981
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 07/05/01
Received: 07/05/01
Prepared: 07/16/01
Analyzed: 07/16/01

Matrix: Water
QC Batch: 071601W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<50.	U	1	
Bromodichloromethane	<50.	U	1	
Bromoform	<500.	U	1	
Bromomethane	<500.	U	1	
Carbon tetrachloride	<50.	U	1	
Chlorobenzene	<50.	U	1	
Chloroethane	<50.	U	1	
2-Chloroethylvinyl ether	<500.	U	1	
Chloroform	<50.	U	1	
Chloromethane	<500.	U	1	
Dibromochloromethane	<50.	U	1	
1,2-Dichlorobenzene	<250.	U	1	
1,3-Dichlorobenzene	<250.	U	1	
1,4-Dichlorobenzene	<250.	U	1	
Dichlorodifluoromethane	<500.	U	1	
1,1-Dichloroethane	<50.	U	1	
1,2-Dichloroethane	<50.	U	1	
1,1-Dichloroethylene	<50.	U	1	
cis-1,2-Dichloroethylene	<50.	U	1	
trans-1,2-Dichloroethylene	<50.	U	1	
Dichloromethane	<50.	U	1	
1,2-Dichloropropane	<50.	U	1	
cis-1,3-Dichloropropylene	<50.	U	1	
trans-1,3-Dichloropropylene	<50.	U	1	
Ethylbenzene	<50.	U	1	
1,1,2,2-Tetrachloroethane	<50.	U	1	
Tetrachloroethylene	<50.	U	1	
Toluene	<50.	U	1	
1,1,1-Trichloroethane	<50.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: July 18, 2001

Monika Santucci

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7981
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 07/05/01
Received: 07/05/01
Prepared: 07/16/01
Analyzed: 07/16/01

Matrix: Water
QC Batch: 071601W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<50.	U	1	
Trichloroethylene	740.		1	
Trichlorofluoromethane	<50.	U	1	
Vinyl Chloride	<50.	U	1	
Xylenes (total)	<150.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	88. %		1	76-121	
Fluorobenzene (surrogate)	99. %		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: July 18, 2001

Monika Santucci

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7982
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Collected: 07/05/01
Received: 07/05/01
Prepared: 07/16/01
Analyzed: 07/16/01
Matrix: Water
QC Batch: 071601W1
%Solids:
Sample Size: 5 ml
Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<5.	U	1	
Bromodichloromethane	<5.	U	1	
Bromoform	<50.	U	1	
Bromomethane	<50.	U	1	
Carbon tetrachloride	<5.	U	1	
Chlorobenzene	<5.	U	1	
Chloroethane	<5.	U	1	
2-Chloroethylvinyl ether	<50.	U	1	
Chloroform	<5.	U	1	
Chloromethane	<50.	U	1	
Dibromochloromethane	<5.	U	1	
1,2-Dichlorobenzene	<25.	U	1	
1,3-Dichlorobenzene	<25.	U	1	
1,4-Dichlorobenzene	<25.	U	1	
Dichlorodifluoromethane	<50.	U	1	
1,1-Dichloroethane	<5.	U	1	
1,2-Dichloroethane	<5.	U	1	
1,1-Dichloroethylene	<5.	U	1	
cis-1,2-Dichloroethylene	<5.	U	1	
trans-1,2-Dichloroethylene	<5.	U	1	
Dichloromethane	<5.	U	1	
1,2-Dichloropropane	<5.	U	1	
cis-1,3-Dichloropropylene	<5.	U	1	
trans-1,3-Dichloropropylene	<5.	U	1	
Ethylbenzene	<5.	U	1	
1,1,2,2-Tetrachloroethane	<5.	U	1	
Tetrachloroethylene	<5.	U	1	
Toluene	<5.	U	1	
1,1,1-Trichloroethane	<5.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: July 18, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7982
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Collected: 07/05/01
Received: 07/05/01
Prepared: 07/16/01
Analyzed: 07/16/01

Matrix: Water
QC Batch: 071601W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<5.	U	1	
Trichloroethylene	190.		1	
Trichlorofluoromethane	<5.	U	1	
Vinyl Chloride	<5.	U	1	
Xylenes (total)	<15.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	90.%		1	76-121	
Fluorobenzene (surrogate)	101.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: July 18, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7984
Samp. Description: WTP Effluent (Composite)
Units: mg/L

Collected: 07/05/01 Matrix: Water
Received: 07/05/01 %Solids: .
Number of analytes: 11

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Antimony	<.06	200.7	07/09/01	07/12/01	070901W1	1	
Chromium	<.01	200.7	07/09/01	07/12/01	070901W1	1	
Cobalt	<.01	200.7	07/09/01	07/12/01	070901W1	1	
Copper	<.01	200.7	07/09/01	07/12/01	070901W1	1	
Iron	<.05	200.7	07/09/01	07/12/01	070901W1	1	
Lead	<.005	200.7	07/09/01	07/12/01	070901W1	1	
Mercury	<.0002	245.1	07/09/01	07/09/01	070901W1	1	
Nickel	<.05	200.7	07/09/01	07/12/01	070901W1	1	
Silver	<.01	200.7	07/09/01	07/12/01	070901W1	1	
Vanadium	<.03	200.7	07/09/01	07/12/01	070901W1	1	
Zinc	<.01	200.7	07/09/01	07/12/01	070901W1	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: July 16, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7985
Samp. Description: WTP Effluent (Lab Filter)
Units: mg/L

Collected: 07/05/01 Matrix: Water
Received: 07/05/01 %Solids:
Number of analytes: 1

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Aluminum, filtered	<.1	200.7	07/09/01	07/12/01	070901W1		1

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: July 16, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7984
Samp. Description: WTP Effluent (Composite)

Collected: 07/05/01 11:18 Matrix: Water
Received: 07/05/01 15:35

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
CB005	<5. mg/L	SM5210B		07/06/01	070601W14	
Total Kjeldahl nitrogen	<.4 mg/L	EPA 351.2	07/09/01	07/12/01	070901W2	
Total dissolved solids	900. mg/L	EPA 160.1		07/06/01	070601W12	
Total suspended solids	<5. mg/L	EPA 160.2		07/06/01	070601W11	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: July 15, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

9385

Client: <u>OGINA</u>						Analysis/Method								
Project: <u>FORMER ACCURATE DIE</u>						VOCs EPA METH 8021 VOCs EPA METH 8021 VOCs EPA METH 8021 METALS & ALUMINUM 8260 TSS/TDS & CLODS TKIN								
Sampled by: <u>JERRY BORN</u>														
Client Contact: <u>AL FARIZELL</u> Phone # <u>2316</u>														
Sample Description														
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers									
WTP INFLUENT	7/5/01	8:05 AM	WATER	GRAB	2	X								
WTP BETWEEN SACS	7/5/01	8:11 AM	WATER	GRAB	2		X							
WTP EFFLUENT	7/5/01	8:13 AM	WATER	GRAB	2			X						
WTP EFFLUENT	7/5/01	11:15 AM	WATER	COMP	2				X					
WTP EFFLUENT	7/5/01	11:18 AM	WATER	COMP	2					X				
WTP EFFLUENT	7/5/01	11:20 AM	WATER	COMP	1						X			
Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: _____ Time: _____								
Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: _____ Time: _____								
Relinquished by: <u>[Signature]</u> Date: <u>7/5/01</u> Time: <u>1535</u>						Received by Lab: <u>[Signature]</u> Date: <u>7/5/01</u> Time: <u>15:35</u>								
Shipment Method: <u>HAND DELIVERED</u>						Airbill Number: _____								

Turnaround Time Required:

Routine X
Rush (Specify) _____

Comments:

Cooler Temperature: 30

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S8244
Samp. Description: WTP Effluent

Collected: 07/11/01 Matrix: Water
Received: 07/11/01 15:20

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	840. mg/L	EPA 160.1		07/13/01	071301W14	
Total suspended solids	<5. mg/L	EPA 160.2		07/12/01	071201W24	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: July 18, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S8783
Samp. Description: WTP Effluent - Grab
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 07/18/01
Received: 07/18/01
Prepared: 07/25/01
Matrix: Water
QC Batch: 072501W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	07/25/01	
Methylene chloride	<2.0		1	07/25/01	
trans-1,2-Dichloroethene	<.50		1	07/25/01	
cis-1,2-Dichloroethene	<.50		1	07/25/01	
Trichloroethene	<.50		1	07/25/01	
4-Methyl-2-pentanone	<5.0		1	07/25/01	
Toluene	<.50		1	07/25/01	
2-Hexanone	<5.0		1	07/25/01	
Tetrachloroethene	<.50		1	07/25/01	
1,1,2,2-Tetrachloroethane	<.50		1	07/25/01	
Dibromofluoromethane (surrogate)	105.%	70-131	1	07/25/01	
1,2-Dichloroethane-d4 (surrogate)	105.%	81-120	1	07/25/01	
Toluene-d8 (surrogate)	111.%	83-117	1	07/25/01	
Bromofluorobenzene (surrogate)	107.%	78-119	1	07/25/01	

Notes:

- Outside control limits J-Estimated value
E - Concentration exceeded the calibration range and is estimated

Authorized: Monika Santucci
Date: July 29, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S8784
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 07/18/01 Matrix: Water
Received: 07/18/01 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	07/31/01	07/31/01	073101W1	1	
Zinc	<.01	200.7	07/24/01	07/25/01	072401W3	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: August 5, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S8784
Samp. Description: WTP Effluent - Composite

Collected: 07/18/01 Matrix: Water
Received: 07/18/01 15:25

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	950.	mg/L	EPA 160.1		07/20/01	072001W23	
Total suspended solids	<5.	mg/L	EPA 160.2		07/20/01	072001W27	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: July 26, 2001 Monika Santucci

9494

Original Laboratory Copy Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S9298
Samp. Description: WTP Effluent

Collected: 07/25/01 11:00 Matrix: Water
Received: 07/25/01 15:40

Parameter	Result Units	Method	Prepared Analyzed	QC Batch	Note
Total dissolved solids	840. mg/L	EPA 160.1	07/26/01	072601W26	
Total suspended solids	<5. mg/L	EPA 160.2	07/27/01	072701W23	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: August 1, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Chain of Custody

[illegible]

Original Laboratory Copy Client

ATTACHMENT B

**SEMI-ANNUAL GROUND WATER SAMPLING EVENT
LABORATORY ANALYTICAL DATA SHEETS**

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7952
Samp. Description: MW-6
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Collected: 07/03/01
Received: 07/03/01
Prepared: 07/16/01
Analyzed: 07/16/01

Matrix: Water
QC Batch: 071601W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<2.	U	1	
Bromodichloromethane	<2.	U	1	
Bromoform	<20.	U	1	
Bromomethane	<20.	U	1	
Carbon tetrachloride	<2.	U	1	
Chlorobenzene	<2.	U	1	
Chloroethane	<2.	U	1	
2-Chloroethylvinyl ether	<20.	U	1	
Chloroform	<2.	U	1	
Chloromethane	<20.	U	1	
Dibromochloromethane	<2.	U	1	
1,2-Dichlorobenzene	<10.	U	1	
1,3-Dichlorobenzene	<10.	U	1	
1,4-Dichlorobenzene	<10.	U	1	
Dichlorodifluoromethane	<20.	U	1	
1,1-Dichloroethane	<2.	U	1	
1,2-Dichloroethane	<2.	U	1	
1,1-Dichloroethylene	<2.	U	1	
cis-1,2-Dichloroethylene	<2.	U	1	
trans-1,2-Dichloroethylene	<2.	U	1	
Dichloromethane	<2.	U	1	
1,2-Dichloropropane	<2.	U	1	
cis-1,3-Dichloropropylene	<2.	U	1	
trans-1,3-Dichloropropylene	<2.	U	1	
Ethylbenzene	<2.	U	1	
1,1,2,2-Tetrachloroethane	<2.	U	1	
Tetrachloroethylene	<2.	U	1	
Toluene	<2.	U	1	
1,1,1-Trichloroethane	<2.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: July 18, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7952
Samp. Description: MW-6
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Collected: 07/03/01 Matrix: Water
Received: 07/03/01 QC Batch: 071601W1
Prepared: 07/16/01 %Solids:
Analyzed: 07/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter

1,1,2-Trichloroethane
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride
Xylenes (total)

Result	Qual	Col	Notes
<2.	U	1	
89.		1	
<2.	U	1	
<2.	U	1	
<6.	U	1	

Surrogate

2-Chloropropane (surrogate)
Fluorobenzene (surrogate)

Result	Qual	Col	Limits	Notes
91. %		1	76-121	
100. %		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: July 18, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7953
Samp. Description: MW-9
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Collected: 07/03/01
Received: 07/03/01
Prepared: 07/13/01
Analyzed: 07/13/01

Matrix: Water
QC Batch: 071301W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<2.	U	1	
Bromodichloromethane	<2.	U	1	
Bromoform	<20.	U	1	
Bromomethane	<20.	U	1	
Carbon tetrachloride	<2.	U	1	
Chlorobenzene	<2.	U	1	
Chloroethane	<2.	U	1	
2-Chloroethylvinyl ether	<20.	U	1	
Chloroform	<2.	U	1	
Chloromethane	<20.	U	1	
Dibromochloromethane	<2.	U	1	
1,2-Dichlorobenzene	<10.	U	1	
1,3-Dichlorobenzene	<10.	U	1	
1,4-Dichlorobenzene	<10.	U	1	
Dichlorodifluoromethane	<20.	U	1	
1,1-Dichloroethane	<2.	U	1	
1,2-Dichloroethane	<2.	U	1	
1,1-Dichloroethylene	<2.	U	1	
cis-1,2-Dichloroethylene	<2.	U	1	
trans-1,2-Dichloroethylene	<2.	U	1	
Dichloromethane	<2.	U	1	
1,2-Dichloropropane	<2.	U	1	
cis-1,3-Dichloropropylene	<2.	U	1	
trans-1,3-Dichloropropylene	<2.	U	1	
Ethylbenzene	<2.	U	1	
1,1,2,2-Tetrachloroethane	<2.	U	1	
Tetrachloroethylene	<2.	U	1	
Toluene	<2.	U	1	
1,1,1-Trichloroethane	<2.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: July 16, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7953
Samp. Description: MW-9
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Collected: 07/03/01 Matrix: Water
Received: 07/03/01 QC Batch: 071301W1
Prepared: 07/13/01 %Solids:
Analyzed: 07/13/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<2.	U	1	
Trichloroethylene	70.		1	
Trichlorofluoromethane	<2.	U	1	
Vinyl Chloride	<2.	U	1	
Xylenes (total)	<6.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	89.%		1	76-121	
Fluorobenzene (surrogate)	100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci

Date: July 16, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7948
Samp. Description: MW-10
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 20 Instrument: 9001

Collected: 07/03/01
Received: 07/03/01
Prepared: 07/13/01
Analyzed: 07/13/01

Matrix: Water
QC Batch: 071301W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<20.	U	1	
Bromodichloromethane	<20.	U	1	
Bromoform	<200.	U	1	
Bromomethane	<200.	U	1	
Carbon tetrachloride	<20.	U	1	
Chlorobenzene	<20.	U	1	
Chloroethane	<20.	U	1	
2-Chloroethylvinyl ether	<200.	U	1	
Chloroform	<20.	U	1	
Chloromethane	<200.	U	1	
Dibromochloromethane	<20.	U	1	
1,2-Dichlorobenzene	<100.	U	1	
1,3-Dichlorobenzene	<100.	U	1	
1,4-Dichlorobenzene	<100.	U	1	
Dichlorodifluoromethane	<200.	U	1	
1,1-Dichloroethane	<20.	U	1	
1,2-Dichloroethane	<20.	U	1	
1,1-Dichloroethylene	<20.	U	1	
cis-1,2-Dichloroethylene	<20.	U	1	
trans-1,2-Dichloroethylene	<20.	U	1	
Dichloromethane	<20.	U	1	
1,2-Dichloropropane	<20.	U	1	
cis-1,3-Dichloropropylene	<20.	U	1	
trans-1,3-Dichloropropylene	<20.	U	1	
Ethylbenzene	<20.	U	1	
1,1,2,2-Tetrachloroethane	<20.	U	1	
Tetrachloroethylene	<20.	U	1	
Toluene	<20.	U	1	
1,1,1-Trichloroethane	<20.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: July 16, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7948
Samp. Description: MW-10
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 20 Instrument: 9001

Collected: 07/03/01 Matrix: Water
Received: 07/03/01 QC Batch: 071301W1
Prepared: 07/13/01 %Solids:
Analyzed: 07/13/01 Sample Size: 5 ml

Number of analytes: 34

Parameter

1,1,2-Trichloroethane
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride
Xylenes (total)

Result Qual Col Notes

<20.	U	1	
600.		1	
<20.	U	1	
<20.	U	1	
<60.	U	1	

Surrogate

2-Chloropropane (surrogate)
Fluorobenzene (surrogate)

Result Qual Col Limits Notes

97. %		1	76-121	
101. %		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: July 16, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7951
Samp. Description: MW-11
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 20 Instrument: 9001

Collected: 07/03/01
Received: 07/03/01
Prepared: 07/13/01
Analyzed: 07/13/01

Matrix: Water
QC Batch: 071301W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<20.	U	1	
Bromodichloromethane	<20.	U	1	
Bromoform	<200.	U	1	
Bromomethane	<200.	U	1	
Carbon tetrachloride	<20.	U	1	
Chlorobenzene	<20.	U	1	
Chloroethane	<20.	U	1	
2-Chloroethylvinyl ether	<200.	U	1	
Chloroform	<20.	U	1	
Chloromethane	<200.	U	1	
Dibromochloromethane	<20.	U	1	
1,2-Dichlorobenzene	<100.	U	1	
1,3-Dichlorobenzene	<100.	U	1	
1,4-Dichlorobenzene	<100.	U	1	
Dichlorodifluoromethane	<200.	U	1	
1,1-Dichloroethane	<20.	U	1	
1,2-Dichloroethane	<20.	U	1	
1,1-Dichloroethylene	<20.	U	1	
cis-1,2-Dichloroethylene	<20.	U	1	
trans-1,2-Dichloroethylene	<20.	U	1	
Dichloromethane	<20.	U	1	
1,2-Dichloropropane	<20.	U	1	
cis-1,3-Dichloropropylene	<20.	U	1	
trans-1,3-Dichloropropylene	<20.	U	1	
Ethylbenzene	<20.	U	1	
1,1,2,2-Tetrachloroethane	<20.	U	1	
Tetrachloroethylene	<20.	U	1	
Toluene	<20.	U	1	
1,1,1-Trichloroethane	<20.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: July 16, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7951
Samp. Description: MW-11
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 20 Instrument: 9001

Collected: 07/03/01 Matrix: Water
Received: 07/03/01 QC Batch: 071301W1
Prepared: 07/13/01 %Solids:
Analyzed: 07/13/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<20.	U	1	
Trichloroethylene	680.		1	
Trichlorofluoromethane	<20.	U	1	
Vinyl Chloride	<20.	U	1	
Xylenes (total)	<60.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	89.%		1	76-121	
Fluorobenzene (surrogate)	100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
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Authorized: Monika Santucci
Date: July 16, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7949
Samp. Description: MW-14
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Collected: 07/03/01
Received: 07/03/01
Prepared: 07/13/01
Analyzed: 07/13/01

Matrix: Water
QC Batch: 071301W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<5.	U	1	
Bromodichloromethane	<5.	U	1	
Bromoform	<50.	U	1	
Bromomethane	<50.	U	1	
Carbon tetrachloride	<5.	U	1	
Chlorobenzene	<5.	U	1	
Chloroethane	<5.	U	1	
2-Chloroethylvinyl ether	<50.	U	1	
Chloroform	<5.	U	1	
Chloromethane	<50.	U	1	
Dibromochloromethane	<5.	U	1	
1,2-Dichlorobenzene	<25.	U	1	
1,3-Dichlorobenzene	<25.	U	1	
1,4-Dichlorobenzene	<25.	U	1	
Dichlorodifluoromethane	<50.	U	1	
1,1-Dichloroethane	<5.	U	1	
1,2-Dichloroethane	<5.	U	1	
1,1-Dichloroethylene	<5.	U	1	
cis-1,2-Dichloroethylene	<5.	U	1	
trans-1,2-Dichloroethylene	<5.	U	1	
Dichloromethane	<5.	U	1	
1,2-Dichloropropane	<5.	U	1	
cis-1,3-Dichloropropylene	<5.	U	1	
trans-1,3-Dichloropropylene	<5.	U	1	
Ethylbenzene	<5.	U	1	
1,1,2,2-Tetrachloroethane	<5.	U	1	
Tetrachloroethylene	<5.	U	1	
Toluene	<5.	U	1	
1,1,1-Trichloroethane	<5.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: July 16, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7949
Samp. Description: MW-14
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Collected: 07/03/01 Matrix: Water
Received: 07/03/01 QC Batch: 071301W1
Prepared: 07/13/01 %Solids:
Analyzed: 07/13/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<5.	U	1	
Trichloroethylene	270.		1	
Trichlorofluoromethane	<5.	U	1	
Vinyl Chloride	<5.	U	1	
Xylenes (total)	<15.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	90. %		1	76-121	
Fluorobenzene (surrogate)	100. %		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: July 16, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7957
Samp. Description: MW-17
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Collected: 07/03/01
Received: 07/03/01
Prepared: 07/16/01
Analyzed: 07/16/01

Matrix: Water
QC Batch: 071601W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<5.	U	1	
Bromodichloromethane	<5.	U	1	
Bromoform	<50.	U	1	
Bromomethane	<50.	U	1	
Carbon tetrachloride	<5.	U	1	
Chlorobenzene	<5.	U	1	
Chloroethane	<5.	U	1	
2-Chloroethylvinyl ether	<50.	U	1	
Chloroform	<5.	U	1	
Chloromethane	<50.	U	1	
Dibromochloromethane	<5.	U	1	
1,2-Dichlorobenzene	<25.	U	1	
1,3-Dichlorobenzene	<25.	U	1	
1,4-Dichlorobenzene	<25.	U	1	
Dichlorodifluoromethane	<50.	U	1	
1,1-Dichloroethane	<5.	U	1	
1,2-Dichloroethane	<5.	U	1	
1,1-Dichloroethylene	<5.	U	1	
cis-1,2-Dichloroethylene	10.		1	
trans-1,2-Dichloroethylene	<5.	U	1	
Dichloromethane	<5.	U	1	
1,2-Dichloropropane	<5.	U	1	
cis-1,3-Dichloropropylene	<5.	U	1	
trans-1,3-Dichloropropylene	<5.	U	1	
Ethylbenzene	<5.	U	1	
1,1,2,2-Tetrachloroethane	<5.	U	1	
Tetrachloroethylene	7.		1	
Toluene	<5.	U	1	
1,1,1-Trichloroethane	<5.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: July 18, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7957
Samp. Description: MW-17
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Collected: 07/03/01
Received: 07/03/01
Prepared: 07/16/01
Analyzed: 07/16/01

Matrix: Water
QC Batch: 071601W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<5.	U	1	
Trichloroethylene	240.		1	
Trichlorofluoromethane	<5.	U	1	
Vinyl Chloride	<5.	U	1	
Xylenes (total)	<15.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	87. %		1	76-121	
Fluorobenzene (surrogate)	100. %		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: July 18, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7954
Samp. Description: MW-18
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 07/03/01
Received: 07/03/01
Prepared: 07/13/01
Analyzed: 07/13/01

Matrix: Water
QC Batch: 071301W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<50.	U	1	
Bromodichloromethane	<50.	U	1	
Bromoform	<500.	U	1	
Bromomethane	<500.	U	1	
Carbon tetrachloride	<50.	U	1	
Chlorobenzene	<50.	U	1	
Chloroethane	<50.	U	1	
2-Chloroethylvinyl ether	<500.	U	1	
Chloroform	<50.	U	1	
Chloromethane	<500.	U	1	
Dibromochloromethane	<50.	U	1	
1,2-Dichlorobenzene	<250.	U	1	
1,3-Dichlorobenzene	<250.	U	1	
1,4-Dichlorobenzene	<250.	U	1	
Dichlorodifluoromethane	<500.	U	1	
1,1-Dichloroethane	<50.	U	1	
1,2-Dichloroethane	<50.	U	1	
1,1-Dichloroethylene	<50.	U	1	
cis-1,2-Dichloroethylene	<50.	U	1	
trans-1,2-Dichloroethylene	<50.	U	1	
Dichloromethane	<50.	U	1	
1,2-Dichloropropane	<50.	U	1	
cis-1,3-Dichloropropylene	<50.	U	1	
trans-1,3-Dichloropropylene	<50.	U	1	
Ethylbenzene	<50.	U	1	
1,1,2,2-Tetrachloroethane	<50.	U	1	
Tetrachloroethylene	<50.	U	1	
Toluene	<50.	U	1	
1,1,1-Trichloroethane	<50.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: July 16, 2001

Monika Santucci

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7954
Samp. Description: MW-18
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 07/03/01 Matrix: Water
Received: 07/03/01 QC Batch: 071301W1
Prepared: 07/13/01 %Solids:
Analyzed: 07/13/01 Sample Size: 5 ml

Number of analytes: 34

Parameter

1,1,2-Trichloroethane
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride
Xylenes (total)

Result	Qual	Col	Notes
<50.	U	1	
970.		1	
<50.	U	1	
<50.	U	1	
<150.	U	1	

Surrogate

2-Chloropropane (surrogate)
Fluorobenzene (surrogate)

Result	Qual	Col	Limits	Notes
92. %		1	76-121	
100. %		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: July 16, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7956
Samp. Description: MW-21
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Collected: 07/03/01
Received: 07/03/01
Prepared: 07/16/01
Analyzed: 07/16/01

Matrix: Water
QC Batch: 071601W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<5.	U	1	
Bromodichloromethane	<5.	U	1	
Bromoform	<50.	U	1	
Bromomethane	<50.	U	1	
Carbon tetrachloride	<5.	U	1	
Chlorobenzene	<5.	U	1	
Chloroethane	<5.	U	1	
2-Chloroethylvinyl ether	<50.	U	1	
Chloroform	<5.	U	1	
Chloromethane	<50.	U	1	
Dibromochloromethane	<5.	U	1	
1,2-Dichlorobenzene	<25.	U	1	
1,3-Dichlorobenzene	<25.	U	1	
1,4-Dichlorobenzene	<25.	U	1	
Dichlorodifluoromethane	<50.	U	1	
1,1-Dichloroethane	<5.	U	1	
1,2-Dichloroethane	<5.	U	1	
1,1-Dichloroethylene	<5.	U	1	
cis-1,2-Dichloroethylene	130.		1	
trans-1,2-Dichloroethylene	<5.	U	1	
Dichloromethane	<5.	U	1	
1,2-Dichloropropane	<5.	U	1	
cis-1,3-Dichloropropylene	<5.	U	1	
trans-1,3-Dichloropropylene	<5.	U	1	
Ethylbenzene	<5.	U	1	
1,1,2,2-Tetrachloroethane	<5.	U	1	
Tetrachloroethylene	<5.	U	1	
Toluene	<5.	U	1	
1,1,1-Trichloroethane	<5.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: July 18, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7956
Samp. Description: MW-21
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Collected: 07/03/01
Received: 07/03/01
Prepared: 07/16/01
Analyzed: 07/16/01

Matrix: Water
QC Batch: 071601W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<5.	U	1	
Trichloroethylene	35.		1	
Trichlorofluoromethane	<5.	U	1	
Vinyl Chloride	<5.	U	1	
Xylenes (total)	<15.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	92. %		1	76-121	
Fluorobenzene (surrogate)	100. %		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: July 18, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7955
Samp. Description: MW-22
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 07/03/01
Received: 07/03/01
Prepared: 07/13/01
Analyzed: 07/13/01

Matrix: Water
QC Batch: 071301W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	37.		1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: July 16, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7955
Samp. Description: MW-22
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 07/03/01 Matrix: Water
Received: 07/03/01 QC Batch: 071301W1
Prepared: 07/13/01 %Solids:
Analyzed: 07/13/01 Sample Size: 5 ml

Number of analytes: 34

Parameter

1,1,2-Trichloroethane
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride
Xylenes (total)

Result Qual Col Notes

<1. U 1
13. 1
<1. U 1
<1. U 1
<3. U 1

Surrogate

2-Chloropropane (surrogate)
Fluorobenzene (surrogate)

Result Qual Col Limits Notes

94.% 1 76-121
100.% 1 81-114

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized:

Monika Santucci

Date: July 16, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7950
Samp. Description: MW-24
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 07/03/01
Received: 07/03/01
Prepared: 07/13/01
Analyzed: 07/13/01

Matrix: Water
QC Batch: 071301W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<50.	U	1	
Bromodichloromethane	<50.	U	1	
Bromoform	<500.	U	1	
Bromomethane	<500.	U	1	
Carbon tetrachloride	<50.	U	1	
Chlorobenzene	<50.	U	1	
Chloroethane	<50.	U	1	
2-Chloroethylvinyl ether	<500.	U	1	
Chloroform	<50.	U	1	
Chloromethane	<500.	U	1	
Dibromochloromethane	<50.	U	1	
1,2-Dichlorobenzene	<250.	U	1	
1,3-Dichlorobenzene	<250.	U	1	
1,4-Dichlorobenzene	<250.	U	1	
Dichlorodifluoromethane	<500.	U	1	
1,1-Dichloroethane	<50.	U	1	
1,2-Dichloroethane	<50.	U	1	
1,1-Dichloroethylene	<50.	U	1	
cis-1,2-Dichloroethylene	400.		1	
trans-1,2-Dichloroethylene	<50.	U	1	
Dichloromethane	<50.	U	1	
1,2-Dichloropropane	<50.	U	1	
cis-1,3-Dichloropropylene	<50.	U	1	
trans-1,3-Dichloropropylene	<50.	U	1	
Ethylbenzene	<50.	U	1	
1,1,2,2-Tetrachloroethane	<50.	U	1	
Tetrachloroethylene	<50.	U	1	
Toluene	<50.	U	1	
1,1,1-Trichloroethane	<50.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: July 16, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7950
Samp. Description: MW-24
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 07/03/01
Received: 07/03/01
Prepared: 07/13/01
Analyzed: 07/13/01

Matrix: Water
QC Batch: 071301W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter

1,1,2-Trichloroethane
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride
Xylenes (total)

Result	Qual	Col	Notes
<50.	U	1	
600.		1	
<50.	U	1	
<50.	U	1	
<150.	U	1	

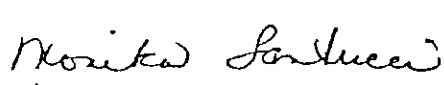
Surrogate

2-Chloropropane (surrogate)
Fluorobenzene (surrogate)

Result	Qual	Col	Limits	Notes
89. %		1	76-121	
99. %		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: 

Date: July 16, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7958
Samp. Description: Sump
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 07/03/01
Received: 07/03/01
Prepared: 07/16/01
Analyzed: 07/16/01

Matrix: Water
QC Batch: 071601W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<50.	U	1	
Bromodichloromethane	<50.	U	1	
Bromoform	<500.	U	1	
Bromomethane	<500.	U	1	
Carbon tetrachloride	<50.	U	1	
Chlorobenzene	<50.	U	1	
Chloroethane	<50.	U	1	
2-Chloroethylvinyl ether	<500.	U	1	
Chloroform	<50.	U	1	
Chloromethane	<500.	U	1	
Dibromochloromethane	<50.	U	1	
1,2-Dichlorobenzene	<250.	U	1	
1,3-Dichlorobenzene	<250.	U	1	
1,4-Dichlorobenzene	<250.	U	1	
Dichlorodifluoromethane	<500.	U	1	
1,1-Dichloroethane	<50.	U	1	
1,2-Dichloroethane	<50.	U	1	
1,1-Dichloroethylene	<50.	U	1	
cis-1,2-Dichloroethylene	<50.	U	1	
trans-1,2-Dichloroethylene	<50.	U	1	
Dichloromethane	<50.	U	1	
1,2-Dichloropropane	<50.	U	1	
cis-1,3-Dichloropropylene	<50.	U	1	
trans-1,3-Dichloropropylene	<50.	U	1	
Ethylbenzene	<50.	U	1	
1,1,2,2-Tetrachloroethane	<50.	U	1	
Tetrachloroethylene	<50.	U	1	
Toluene	<50.	U	1	
1,1,1-Trichloroethane	<50.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: July 18, 2001

Monika Santucci

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7958
Samp. Description: Sump
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 07/03/01 Matrix: Water
Received: 07/03/01 QC Batch: 071601W1
Prepared: 07/16/01 %Solids:
Analyzed: 07/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter

1,1,2-Trichloroethane
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride
Xylenes (total)

Result	Qual	Col	Notes
<50.	U	1	
1000.		1	
<50.	U	1	
<50.	U	1	
<150.	U	1	

Surrogate

2-Chloropropane (surrogate)
Fluorobenzene (surrogate)

Result	Qual	Col	Limits	Notes
89.%		1	76-121	
99.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: July 18, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7959
Samp. Description: QC Trip Blank
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 07/03/01
Received: 07/03/01
Prepared: 07/16/01
Analyzed: 07/16/01

Matrix: Water
QC Batch: 071601W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	<1.	U	1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	1.		1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: July 18, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S7959
Samp. Description: QC Trip Blank
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 07/03/01
Received: 07/03/01
Prepared: 07/16/01
Analyzed: 07/16/01

Matrix: Water
QC Batch: 071601W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter

1,1,2-Trichloroethane
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride
Xylenes (total)

Result	Qual	Col	Notes
<1.	U	1	
<1.	U	1	
<1.	U	1	
<1.	U	1	
<3.	U	1	

Surrogate

2-Chloropropane (surrogate)
Fluorobenzene (surrogate)

Result	Qual	Col	Limits	Notes
94. %		1	76-121	
100. %		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: July 18, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

9381

Client: <u>ENGINEERS</u>						Analysis/Method										
Project: <u>ACC-DIE</u>						80% (VOC)										
Sampled by: <u>E. TEASDALE</u>																
Client Contact: <u>D. Carnvale</u> Phone # _____																
Sample Description																
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Comments										
MW-10	7/3/01	12 ⁰⁰	H ₂ O	G	2	X										
MW-14	7/3/01	2 ⁰⁰				X										
MW-24		3 ⁰⁰				X										
MW-11		10 ⁴⁶				X										
MW-6		11 ⁴⁵				X										
MW-9		12 ³⁰				X										
MW-18		10 ¹⁷				X										
MW-22		9 ⁰⁰				X										
MW-21		9 ³⁵				X										
MW-17		3 ³⁰				X										
Sump		2 ³⁰				X										
Relinquished by: <u>Eddy Teasdale</u> Date: <u>7/3/01</u> Time: <u>4:00</u>						Received by: _____ Date: _____ Time: _____										
Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: _____ Time: _____										
Relinquished by: _____ Date: _____ Time: _____						Received by Lab: <u>[Signature]</u> Date: <u>7/3/01</u> Time: <u>4:00 pm</u>										
Shipment Method: _____						Airbill Number: _____										

Turnaround Time Required:

Routine _____
Rush (Specify) _____

Comments: QC Trip Blank not listed on the COC.

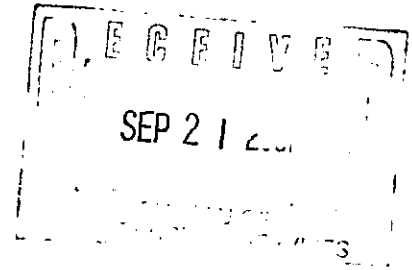
Cooler Temperature: 4°C

Original Laboratory Copy Client



O'BRIEN & GERE
ENGINEERS, INC.

September 19, 2001



Mr. David Crosby, P.E.
Bureau of Construction Services - Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/25463 #2

Dear Mr. Crosby:

This letter presents the status of groundwater treatment plant operations for the former Accurate Die Casting site in Fayetteville, New York for August 2001. This report 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:

1. As of August 31, 2001, a total of 43,686,200 gallons of groundwater has been treated since startup on February 5, 1996. Since July 31, 2001, 572,160 gallons of groundwater was treated; 359,750 gallons from recovery well RW-1, 212,400 gallons from recovery well RW-2, and 10 gallons from the groundwater collection trench constructed in the former VOC/PAH/PCB Soils Area. No water was recovered from the sump located outside the northeast corner of the building.
2. 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 in August 2001 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

Activities Scheduled:

1. Continued operation of the ground water recovery and treatment system, including SPDES monitoring.



O'Brien & Gere Engineers, Inc., an O'Brien & Gere company
5000 Brittonfield Parkway / P.O. Box 4873, Syracuse, New York 13221-4873
(315) 437-6100 / FAX (315) 463-7554 • [http:// www.obg.com](http://www.obg.com)
... and offices in major U.S. cities

Mr. David Crosby, P.E.
September 19, 2001
Page 2

If you have any questions regarding this report, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.



Alfred R. Farrell, P.E.
Senior Project Engineer

E:\DIV7\PROJECTS\2488\23123\2_CORRES\7-2001MOR.doc
Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation – NYSDOH
H. Hamel – NYSDOH
M. Peters, Esq – LeBoeuf, Lamb, Greene & MacRae
P. Anderson – The Anderson Company

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

Analyte (units)	Monitoring Requirements				Effluent	Effluent	Effluent	Effluent
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type	08/01/01	08/02/01	08/07/01	08/08/01
Flow (GPD)	Monitor	150000	Continuous	Meter	---	18800	18600	---
pH (SU)	6.5 - 8.5		2/Week	Grab	---	8.21	8.21	---
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.	5 U	---	---	5 U
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.	1200	---	---	870
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	---	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	---	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	0.0002 U	---	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	0.01 U	---	---	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	0.50 U	---	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	0.50 U	---	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	2.0 U	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	0.50 U	---	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	0.50 U	---	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	0.50 U	---	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	0.50 U	---	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	10 U	---	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	5.0 U	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	5.0 U	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.

--- - Not analyzed, NA - Data not available

U - Not Detected, J - Estimated

TOD = 1.5 X CBOD5 + 4.5 X TKN

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

Analyte	Effluent 08/09/01	Effluent 08/14/01	Effluent 08/15/01	Effluent 08/16/01	Effluent 08/21/01	Effluent 08/22/01	Effluent 08/23/01	Effluent 08/28/01
Flow (GPD)	18572	18650	---	18454	18462	---	18356	18170
pH (SU)	8.23	8.21	---	8.23	8.25	---	8.23	8.23
Residue, non-filterable (mg/L)	---	---	5 U	---	---	5 U	---	---
Total dissolved solids (TDS) (mg/L)	---	---	990	---	---	980	---	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	0.0002 U	---	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	0.01 U	---	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
Methylene chloride (ug/L)	---	---	2.0 U	---	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	0.50 U	---	---	---	---	---
Tetrachloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
Toluene (ug/L)	---	---	0.50 U	---	---	---	---	---
Trichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
Acetone (ug/L)	---	---	10 U	---	---	---	---	---
2-Hexanone (ug/L)	---	---	5.0 U	---	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	5.0 U	---	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.
 --- - Not analyzed, NA - Data not available
 U - Not Detected, J - Estimated
 TOD = 1.5 X CBOD5 + 4.5 X TKN



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

Analyte	Effluent 08/29/01	Effluent 08/30/01
Flow (GPD)	---	17572
pH (SU)	---	8.23
Residue, non-filterable (mg/L)	5 U	---
Total dissolved solids (TDS) (mg/L)	1100	---
CBOD5 (mg/L)	---	---
TKN (mg/L)	---	---
TOD (mg/L)	---	---
Dissolved Oxygen (mg/L)	---	---
Aluminum, dissolved (mg/L)	---	---
Antimony, total (mg/L)	---	---
Chromium, total (mg/L)	---	---
Cobalt, total (mg/L)	---	---
Copper, total (mg/L)	---	---
Iron, total (mg/L)	---	---
Lead, total (mg/L)	---	---
Mercury, total (mg/L)	---	---
Nickel, total (mg/L)	---	---
Silver, total (mg/L)	---	---
Vanadium, 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)	---	---
Acetone (ug/L)	---	---
2-Hexanone (ug/L)	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.
 --- - Not analyzed, NA - Data not available
 U - Not Detected, J - Estimated
 TOD = 1.5 X CBOD5 + 4.5 X TKN

ATTACHMENT A

**SPDES PERMIT COMPLIANCE MONITORING
LABORATORY ANALYTICAL DATA SHEETS**

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

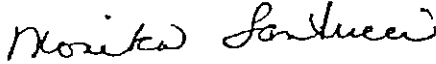
Sample: S9781
Samp. Description: WTP Effluent - Grab
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 08/01/01
Received: 08/01/01
Prepared: 08/05/01
Matrix: Water
QC Batch: 080501W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog		Analyzed	Notes
		Limits	Dilution		
Acetone	<10.		1	08/05/01	
Methylene chloride	<2.0		1	08/05/01	
trans-1,2-Dichloroethene	<.50		1	08/05/01	
cis-1,2-Dichloroethene	<.50		1	08/05/01	
Trichloroethene	<.50		1	08/05/01	
4-Methyl-2-pentanone	<5.0		1	08/05/01	
Toluene	<.50		1	08/05/01	
2-Hexanone	<5.0		1	08/05/01	
Tetrachloroethene	<.50		1	08/05/01	
1,1,2,2-Tetrachloroethane	<.50		1	08/05/01	
Dibromofluoromethane (surrogate)	98.%	70-131	1	08/05/01	
1,2-Dichloroethane-d4 (surrogate)	94.%	81-120	1	08/05/01	
Toluene-d8 (surrogate)	97.%	83-117	1	08/05/01	
Bromofluorobenzene (surrogate)	100.%	78-119	1	08/05/01	

Notes:

- Outside control limits J-Estimated value
E - Concentration exceeded the calibration range and is estimated

Authorized: 
Date: August 9, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S9779
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 08/01/01
Received: 08/01/01
Prepared: 08/09/01
Analyzed: 08/09/01

Matrix: Water
QC Batch: 080901W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<50.	U	1	
Bromodichloromethane	<50.	U	1	
Bromoform	<500.	U	1	
Bromomethane	<500.	U	1	
Carbon tetrachloride	<50.	U	1	
Chlorobenzene	<50.	U	1	
Chloroethane	<50.	U	1	
2-Chloroethylvinyl ether	<500.	U	1	
Chloroform	<50.	U	1	
Chloromethane	<500.	U	1	
Dibromochloromethane	<50.	U	1	
1,2-Dichlorobenzene	<250.	U	1	
1,3-Dichlorobenzene	<250.	U	1	
1,4-Dichlorobenzene	<250.	U	1	
Dichlorodifluoromethane	<500.	U	1	
1,1-Dichloroethane	<50.	U	1	
1,2-Dichloroethane	<50.	U	1	
1,1-Dichloroethylene	<50.	U	1	
cis-1,2-Dichloroethylene	<50.	U	1	
trans-1,2-Dichloroethylene	<50.	U	1	
Dichloromethane	<50.	U	1	
1,2-Dichloropropane	<50.	U	1	
cis-1,3-Dichloropropylene	<50.	U	1	
trans-1,3-Dichloropropylene	<50.	U	1	
Ethylbenzene	<50.	U	1	
1,1,2,2-Tetrachloroethane	<50.	U	1	
Tetrachloroethylene	<50.	U	1	
Toluene	<50.	U	1	
1,1,1-Trichloroethane	<50.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: August 10, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S9779
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 08/01/01
Received: 08/01/01
Prepared: 08/09/01
Analyzed: 08/09/01

Matrix: Water
QC Batch: 080901W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<50.	U	1	
Trichloroethylene	600.		1	
Trichlorofluoromethane	<50.	U	1	
Vinyl Chloride	<50.	U	1	
Xylenes (total)	<150.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	97. %		1	76-121	
Fluorobenzene (surrogate)	100. %		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: August 10, 2001

Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S9780
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 08/01/01
Received: 08/01/01
Prepared: 08/09/01
Analyzed: 08/09/01

Matrix: Water
QC Batch: 080901W1
% Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	<1.	U	1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: August 10, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S9780
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 08/01/01 Matrix: Water
Received: 08/01/01 QC Batch: 080901W1
Prepared: 08/09/01 %Solids:
Analyzed: 08/09/01 Sample Size: 5 ml

Number of analytes: 34

Parameter

1,1,2-Trichloroethane
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride
Xylenes (total)

Result	Qual	Col	Notes
<1.	U	1	
<1.	U	1	
<1.	U	1	
<1.	U	1	
<3.	U	1	

Surrogate

2-Chloropropane (surrogate)
Fluorobenzene (surrogate)

Result	Qual	Col	Limits	Notes
102. %		1	76-121	
100. %		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: 

Date: August 10, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S9782
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 08/01/01 Matrix: Water
Received: 08/01/01 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	08/08/01	08/08/01	080801W1	1	
Zinc	<.01	200.7	08/06/01	08/08/01	080601W2	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: August 14, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S9782
Samp. Description: WTP Effluent - Composite

Collected: 08/01/01
Received: 08/01/01 16:30
Matrix: Water

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	1200. mg/L	EPA 160.1		08/06/01	080601W22	
Total suspended solids	<5. mg/L	EPA 160.2		08/06/01	080601W23	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: August 13, 2001 Monika Santucci

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O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: S9989
Samp. Description: WTP Effluent

Collected: 08/08/01 Matrix: Water
Received: 08/08/01 15:12

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	870. mg/L	EPA 160.1		08/13/01	081301W21	
Total suspended solids	<5. mg/L	EPA 160.2		08/10/01	081001W21	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: August 14, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: T0306
Samp. Description: WTP Effluent
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 08/15/01
Received: 08/15/01
Prepared: 08/22/01

Matrix: Water
QC Batch: 082201W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	08/22/01	
Methylene chloride	<2.0		1	08/22/01	
trans-1,2-Dichloroethene	<.50		1	08/22/01	
cis-1,2-Dichloroethene	<.50		1	08/22/01	
Trichloroethene	<.50		1	08/22/01	
4-Methyl-2-pentanone	<5.0		1	08/22/01	
Toluene	<.50		1	08/22/01	
2-Hexanone	<5.0		1	08/22/01	
Tetrachloroethene	<.50		1	08/22/01	
1,1,2,2-Tetrachloroethane	<.50		1	08/22/01	
Dibromofluoromethane (surrogate)	107.%	70-131	1	08/22/01	
1,2-Dichloroethane-d4 (surrogate)	107.%	81-120	1	08/22/01	
Toluene-d8 (surrogate)	109.%	83-117	1	08/22/01	
Bromofluorobenzene (surrogate)	109.%	78-119	1	08/22/01	

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: Monika Santucci

Date: August 24, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: T0305
Samp. Description: WTP Effluent
Units: mg/L

Collected: 08/15/01 Matrix: Water
Received: 08/15/01 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	08/20/01	08/20/01	082001W2		1
Zinc	<.01	200.7	08/20/01	08/22/01	082001W1		1

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: August 28, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: T0305
Samp. Description: WTP Effluent

Collected: 08/15/01 Matrix: Water
Received: 08/15/01 15:20

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	990. mg/L	EPA 160.1		08/21/01	082101W29	
Total suspended solids	<5. mg/L	EPA 160.2		08/16/01	081601W30	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: August 23, 2001 Monika Santucci

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Wet Chemistry**

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: T0781
Samp. Description: WTP Effluent

Collected: 08/22/01 Matrix: Water
Received: 08/22/01 15:10

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	980. mg/L	EPA 160.1		08/27/01	082701W22	
Total suspended solids	<5. mg/L	EPA 160.2		08/27/01	082701W23	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: August 28, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: T1213
Samp. Description: WTP Effluent

Collected: 08/29/01 Matrix: Water
Received: 08/29/01 15:15

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	1100. mg/L	EPA 160.1		08/30/01	083001W22	
Total suspended solids	<5. mg/L	EPA 160.2		08/30/01	083001W21	

Notes:

J-Estimated value

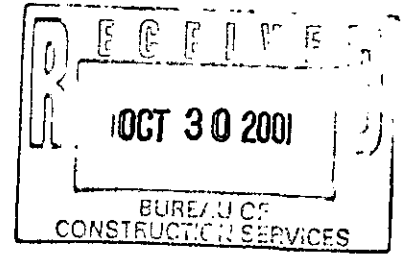
Authorized: Monika Santucci
Date: August 31, 2001 Monika Santucci

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O'BRIEN & GERE
ENGINEERS, INC.

October 24, 2001



Mr. John C. Grathwol, P.E.
Bureau of Construction Services - Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7017

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/25463 #2

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 September 2001. This report 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:

1. As of October 1, 2001, a total of 44,220,300 gallons of groundwater has been treated since startup on February 5, 1996. Since August 31, 2001, 534,100 gallons of groundwater was treated; 351,230 gallons from recovery well RW-1, 182,850 gallons from recovery well RW-2, and 20 gallons from the groundwater collection trench constructed in the former VOC/PAH/PCB Soils Area. No water was recovered from the sump located outside the northeast corner of the building.
2. 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 in September 2001 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

Activities Scheduled:

1. Continued operation of the ground water recovery and treatment system, including SPDES monitoring.
2. Conducted the annual round of ground water monitoring in October.



O'Brien & Gere Engineers, Inc., an O'Brien & Gere company
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... and offices in major U.S. cities

Mr. John C. Grathwol, P.E.
October 24, 2001
Page 2

If you have any questions regarding this report, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

A handwritten signature in black ink, appearing to read 'A. Farrell', written over a horizontal line.

Alfred R. Farrell, P.E.
Senior Project Engineer

I:\DIV71\PROJECTS\2488\23123\2_CORRES\9-2001MOR.doc

Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation – NYSDOH
H. Hamel – NYSDOH
M. Peters, Esq – LeBoeuf, Lamb, Greene & MacRae
P. Anderson – The Anderson Company

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

Analyte (units)	Monitoring Requirements				Effluent	Effluent	Effluent	Effluent
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type	09/04/2001	09/05/2001	09/06/2001	09/11/2001
Flow (GPD)	Monitor	150000	Continuous	Meter	17819	---	17740	17340
pH (SU)	6.5 - 8.5		2/Week	Grab	8:23	---	8:23	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.	---	940	---	---
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	---	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	---	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	0.0002 U	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	0.01 U	---	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	0.50 U	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	10 U	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.

--- - Not analyzed, NA - Data not available

U - Not Detected, J - Estimated

TOD = 1.5 X CBOD5 + 4.5 X TKN

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

Analyte	Effluent 09/12/2001	Effluent 09/13/2001	Effluent 09/18/2001	Effluent 09/19/2001	Effluent 09/20/2001	Effluent 09/25/2001	Effluent 09/26/2001	Effluent 09/27/2001
Flow (GPD)	---	17240	16830	---	16720	16520	---	16970
pH (SU)	---	8.25	8.23	---	8.23	8.21	---	8.23
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	950	---	---	920	---	---	920	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	0.0002 U	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	0.01 U	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	0.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Toluene (ug/L)	---	---	---	0.50 U	---	---	---	---
Trichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Acetone (ug/L)	---	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.

--- - Not analyzed, NA - Data not available

U - Not Detected, J - Estimated

TOD = 1.5 X CBOD5 + 4.5 X TKN

ATTACHMENT A

**SPDES PERMIT COMPLIANCE MONITORING
LABORATORY ANALYTICAL DATA SHEETS**

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: T1598
Samp. Description: WTP Effluent - Grab
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 14

Collected: 09/05/01
Received: 09/05/01
Prepared: 09/06/01

Matrix: Water
QC Batch: 090601W1
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog		Analyzed	Notes
		Limits	Dilution		
Acetone	<10.		1	09/06/01	
Methylene chloride	<2.0		1	09/06/01	
trans-1,2-Dichloroethene	<.50		1	09/06/01	
cis-1,2-Dichloroethene	<.50		1	09/06/01	
Trichloroethene	<.50		1	09/06/01	
4-Methyl-2-pentanone	<5.0		1	09/06/01	
Toluene	<.50		1	09/06/01	
2-Hexanone	<5.0		1	09/06/01	
Tetrachloroethene	<.50		1	09/06/01	
1,1,2,2-Tetrachloroethane	<.50		1	09/06/01	
Dibromofluoromethane (surrogate)	99.%	70-131	1	09/06/01	
1,2-Dichloroethane-d4 (surrogate)	96.%	81-120	1	09/06/01	
Toluene-d8 (surrogate)	106.%	83-117	1	09/06/01	
Bromofluorobenzene (surrogate)	94.%	78-119	1	09/06/01	

Notes:

- Outside control limits J-Estimated value
E - Concentration exceeded the calibration range and is estimated

Authorized: Monika Santucci
Date: September 7, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: T1596
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 09/05/01
Received: 09/05/01
Prepared: 09/12/01
Analyzed: 09/12/01

Matrix: Water
QC Batch: 091201W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<50.	U	1	
Bromodichloromethane	<50.	U	1	
Bromoform	<500.	U	1	
Bromomethane	<500.	U	1	
Carbon tetrachloride	<50.	U	1	
Chlorobenzene	<50.	U	1	
Chloroethane	<50.	U	1	
2-Chloroethylvinyl ether	<500.	U	1	
Chloroform	<50.	U	1	
Chloromethane	<500.	U	1	
Dibromochloromethane	<50.	U	1	
1,2-Dichlorobenzene	<250.	U	1	
1,3-Dichlorobenzene	<250.	U	1	
1,4-Dichlorobenzene	<250.	U	1	
Dichlorodifluoromethane	<500.	U	1	
1,1-Dichloroethane	<50.	U	1	
1,2-Dichloroethane	<50.	U	1	
1,1-Dichloroethylene	<50.	U	1	
cis-1,2-Dichloroethylene	<50.	U	1	
trans-1,2-Dichloroethylene	<50.	U	1	
Dichloromethane	<50.	U	1	
1,2-Dichloropropane	<50.	U	1	
cis-1,3-Dichloropropylene	<50.	U	1	
trans-1,3-Dichloropropylene	<50.	U	1	
Ethylbenzene	<50.	U	1	
1,1,2,2-Tetrachloroethane	<50.	U	1	
Tetrachloroethylene	<50.	U	1	
Toluene	<50.	U	1	
1,1,1-Trichloroethane	<50.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: September 13, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: T1596
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 09/05/01 Matrix: Water
Received: 09/05/01 QC Batch: 091201W1
Prepared: 09/12/01 %Solids:
Analyzed: 09/12/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<50.	U	1	
Trichloroethylene	710.		1	
Trichlorofluoromethane	<50.	U	1	
Vinyl Chloride	<50.	U	1	
Xylenes (total)	<150.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	95.%		1	76-121	
Fluorobenzene (surrogate)	100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: September 13, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: T1597
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 09/05/01 Matrix: Water
Received: 09/05/01 QC Batch: 091201W1
Prepared: 09/12/01 %Solids:
Analyzed: 09/12/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	<1.	U	1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: September 13, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: T1597
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 09/05/01 Matrix: Water
Received: 09/05/01 QC Batch: 091201W1
Prepared: 09/12/01 %Solids:
Analyzed: 09/12/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<1.	U	1	
Trichloroethylene	<1.	U	1	
Trichlorofluoromethane	<1.	U	1	
Vinyl Chloride	<1.	U	1	
Xylenes (total)	<3.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	99.%		1	76-121	
Fluorobenzene (surrogate)	100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: September 13, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.

Project: Accurate Die Casting

Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517

Certification NY No.: 10155

Sample: T1599

Samp. Description: WTP Effluent - Composite

Units: mg/L

Collected: 09/05/01

Received: 09/05/01

Matrix: Water

%Solids:

Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	09/12/01	09/12/01	091201W1	1	
Zinc	<.01	200.7	09/11/01	09/13/01	091101W1	1	

Notes:

J-Estimated value

Authorized: Monika Santucci

Date: September 17, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: T1599
Samp. Description: WTP Effluent - Composite

Collected: 09/05/01 Matrix: Water
Received: 09/05/01 15:15

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	940. mg/L	EPA 160.1		09/10/01	091001W21	
Total suspended solids	<5. mg/L	EPA 160.2		09/07/01	090701W26	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: September 12, 2001 Monika Santucci

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Original Laboratory Copy-Client

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Wet Chemistry**

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: T1821
Samp. Description: WTP Effluent

Collected: 09/12/01 Matrix: Water
Received: 09/12/01 15:25

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	950. mg/L	EPA 160.1		09/19/01	091901W26	
Total suspended solids	<5. mg/L	EPA 160.2		09/13/01	091301W25	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: September 21, 2001 Monika Santucci

Chain of Custody.

Original Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: T2137
Samp. Description: WTP Effluent - Grab
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 14

Collected: 09/19/01
Received: 09/19/01
Prepared: 09/19/01
Matrix: Water
QC Batch: 091901W1
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog		Analyzed	Notes
		Limits	Dilution		
Acetone	<10.		1	09/19/01	
Methylene chloride	<2.0		1	09/19/01	
trans-1,2-Dichloroethene	<.50		1	09/19/01	
cis-1,2-Dichloroethene	<.50		1	09/19/01	
Trichloroethene	<.50		1	09/19/01	
4-Methyl-2-pentanone	<5.0		1	09/19/01	
Toluene	<.50		1	09/19/01	
2-Hexanone	<5.0		1	09/19/01	
Tetrachloroethene	<.50		1	09/19/01	
1,1,2,2-Tetrachloroethane	<.50		1	09/19/01	
Dibromofluoromethane (surrogate)	97.%	70-131	1	09/19/01	
1,2-Dichloroethane-d4 (surrogate)	91.%	81-120	1	09/19/01	
Toluene-d8 (surrogate)	102.%	83-117	1	09/19/01	
Bromofluorobenzene (surrogate)	91.%	78-119	1	09/19/01	

Notes:

- Outside control limits J-Estimated value
E - Concentration exceeded the calibration range and is estimated

Authorized: 
Date: September 20, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: T2138
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 09/19/01 Matrix: Water
Received: 09/19/01 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	09/25/01	09/25/01	092501W2		1
Zinc	<.01	200.7	09/25/01	09/27/01	092501W3		1

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: October 1, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: T2138
Samp. Description: WTP Effluent - Composite

Collected: 09/19/01
Received: 09/19/01 12:05
Matrix: Water

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	920. mg/L	EPA 160.1		09/20/01	092001W25	
Total suspended solids	<5. mg/L	EPA 160.2		09/21/01	092101W26	

Notes:

J-Estimated value

Authorized: Monika Santucci

Date: September 26, 2001 Monika Santucci

9997

Original Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:

Job No.: 3027.001. 11102
Certification NY No.: 10155

Sample: T2527
Samp. Description: WTP Effluent

Collected: 09/26/01 Matrix: Water
Received: 09/26/01 09:00

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	920. mg/L	EPA 160.1		10/02/01	100201W25	
Total suspended solids	<5. mg/L	EPA 160.2		10/02/01	100201W26	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: October 9, 2001 Monika Santucci

Chain of Custody

51

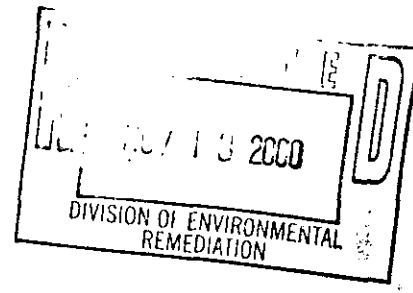
Comments:

Original Laboratory Copy Client



O'BRIEN & GERE
ENGINEERS, INC.

November 8, 2000



VN
file

Mr. David Crosby, P.E.
Bureau of Construction Services - Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/25463 #2

734052

Dear Mr. Crosby:

This letter presents the status of groundwater treatment plant operations for the former Accurate Die Casting site in Fayetteville, New York for October 2000. This report 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:

1. As of November 1, 2000, a total of 37,928,190 gallons of groundwater has been treated since startup on February 5, 1996. Since October 2, 2000, 600,080 gallons of groundwater was treated; 396,800 gallons from recovery well RW-1, 203,270 gallons from recovery well RW-2, and 10 gallons from the groundwater collection trench constructed in the former VOC/PAH/PCB Soils Area. No ground water was recovered from the sump located outside the northeast corner of the building.
2. 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 in October 2000 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

Activities Scheduled:

1. Continued operation of the ground water recovery and treatment system, including SPDES monitoring.
2. Annual round of on-site ground water monitoring well sampling in November.



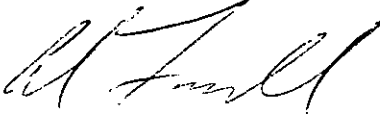
O'Brien & Gere Engineers, Inc., an O'Brien & Gere company
5000 Brittonfield Parkway / P.O. Box 4873, Syracuse, New York 13221-4873
(315) 437-6100 / FAX (315) 463-7554 • [http:// www.obg.com](http://www.obg.com)
... and offices in major U.S. cities

Mr. David Crosby, P.E.
November 8, 2000
Page 2

If you have any questions regarding this report, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

A handwritten signature in dark ink, appearing to read 'A. Farrell', written in a cursive style.

Alfred R. Farrell, P.E.
Senior Project Engineer

I:\DIV71\PROJECTS\2488\23123\2_CORRES\9-2000MOR.doc
Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
Central Field Unit: Project Attorney Accurate Die Site - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation – NYSDOH
H. Hamel – NYSDOH
M. Peters, Esq – LeBoeuf, Lamb, Greene & MacRae

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

Analyte (units)	Monitoring Requirements				Effluent	Effluent	Effluent	Effluent
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type	10/03/2000	10/04/2000	10/05/2000	10/10/2000
Flow (GPD)	Monitor	150000	Continuous	Meter	20596	---	20540	20410
pH (SU)	6.5 - 8.5		2/Week	Grab	8.38	---	8.21	8.16
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.	---	730	---	---
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	5 U	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	0.4 U	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	9.3 U	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	7.15	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	0.1 U	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	0.06 U	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	0.01 U	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	0.01 U	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	0.01 U	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	0.05 U	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	0.005 U	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	0.0002 U	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	0.05 U	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	0.01 U	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	0.03 U	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	0.01 U	---	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	0.50 U	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	10 U	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.

--- - Not analyzed, NA - Data not available

U - Not Detected, J - Estimated

TOD = 1.5 X CBOD5 + 4.5 X TKN



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

Analyte	Effluent 10/11/2000	Effluent 10/12/2000	Effluent 10/17/2000	Effluent 10/18/2000	Effluent 10/19/2000	Effluent 10/24/2000	Effluent 10/25/2000	Effluent 10/26/2000
Flow (GPD)	---	20090	19722	---	19910	19930	---	19890
pH (SU)	---	8.16	8.12	---	8.10	8.12	---	8.10
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	780	---	---	710	---	---	720	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	0.0002 U	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	0.01 U	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	0.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Toluene (ug/L)	---	---	---	0.50 U	---	---	---	---
Trichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Acetone (ug/L)	---	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.
 --- - Not analyzed, NA - Data not available
 U - Not Detected, J - Estimated
 TOD = 1.5 X CBOD5 + 4.5 X TKN



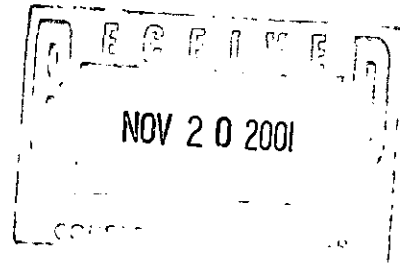
Table 1
Accurate Die Casting Site
Fayetteville, New York
Monitoring Requirements and Effluent Data

Analyte	Effluent 10/31/2000
Flow (GPD)	19392
pH (SU)	8.12
Residue, non-filterable (mg/L)	---
Total dissolved solids (TDS) (mg/L)	---
CBOD5 (mg/L)	---
TKN (mg/L)	---
TOD (mg/L)	---
Dissolved Oxygen (mg/L)	---
Aluminum, dissolved (mg/L)	---
Antimony, total (mg/L)	---
Chromium, total (mg/L)	---
Cobalt, total (mg/L)	---
Copper, total (mg/L)	---
Iron, total (mg/L)	---
Lead, total (mg/L)	---
Mercury, total (mg/L)	---
Nickel, total (mg/L)	---
Silver, total (mg/L)	---
Vanadium, 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)	---
Acetone (ug/L)	---
2-Hexanone (ug/L)	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---
NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997. --- - Not analyzed, NA - Data not available U - Not Detected, J - Estimated TOD = 1.5 X CBOD5 + 4.5 X TKN	



O'BRIEN & GERE
ENGINEERS, INC.

November 16, 2001



Mr. John C. Grathwol, P.E.
Bureau of Construction Services - Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7017

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/25463 #2

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 October 2001. This report 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:

1. As of November 1, 2001, a total of 44,753,290 gallons of groundwater has been treated since startup on February 5, 1996. Since October 1, 2001, 532,990 gallons of groundwater was treated; 350,420 gallons from recovery well RW-1, and 182,570 gallons from recovery well RW-2. No water was recovered from the sump located outside the northeast corner of the building, or the groundwater collection trench constructed in the former VOC/PAH/PCB Soils Area
2. 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 in October 2001 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

Activities Scheduled:

1. Continued operation of the ground water recovery and treatment system, including SPDES monitoring.
2. Conduct the annual round of ground water monitoring.



O'Brien & Gere Engineers, Inc., an O'Brien & Gere company
5000 Brittonfield Parkway / P.O. Box 4873, Syracuse, New York 13221-4873
(315) 437-6100 / FAX (315) 463-7554 • [http:// www.obg.com](http://www.obg.com)
... and offices in major U.S. cities

Mr. John C. Grathwol, P.E.
November 16, 2001
Page 2

If you have any questions regarding this report, please do not hesitate to call me or Jason Sperry at (315) 437-6100.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

A handwritten signature in black ink, appearing to read 'Alfred R. Farrell'.

Alfred R. Farrell, P.E.
Senior Project Engineer

I:\DIV71\PROJECTS\2488\25463\2__CORRES\10-2001MOR.doc

Attachments

cc: A. English - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation – NYSDOH
H. Hamel – NYSDOH
M. Peters, Esq – LeBoeuf, Lamb, Greene & MacRae
P. Anderson – The Anderson Company
J. Sperry – O'Brien & Gere Engineers, Inc.

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

Analyte (units)	Monitoring Requirements				Effluent	Effluent	Effluent	Effluent
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type	10/02/2001	10/03/2001	10/04/2001	10/09/2001
Flow (GPD)	Monitor	150000	Continuous	Meter	18030	---	17930	17490
pH (SU)	6.5 - 8.5		2/Week	Grab	8.25	---	8.25	8.27
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.	---	860	---	---
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	5 U	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	0.4 U	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	9.3 U	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	7.5	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	0.1 U	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	0.0002 U	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	0.06	---	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	0.50 U	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	10 U	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.
 --- - Not analyzed, NA - Data not available
 U - Not Detected, J - Estimated
 TOD = 1.5 X CBOD5 + 4.5 X TKN

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

Analyte	Effluent 10/10/2001	Effluent 10/11/2001	Effluent 10/16/2001	Effluent 10/17/2001	Effluent 10/18/2001	Effluent 10/23/2001	Effluent 10/24/2001	Effluent 10/25/2001
Flow (GPD)	---	17440	17230	---	17120	16870	---	16910
pH (SU)	---	8.26	8.25	---	8.25	8.25	---	8.27
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	880	---	---	890	---	---	950	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	---	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	---	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	0.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Toluene (ug/L)	---	---	---	0.50 U	---	---	---	---
Trichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Acetone (ug/L)	---	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.
 --- - Not analyzed, NA - Data not available
 U - Not Detected, J - Estimated
 TOD = 1.5 X CBOD5 + 4.5 X TKN

ATTACHMENT A

**SPDES PERMIT COMPLIANCE MONITORING
LABORATORY ANALYTICAL DATA SHEETS**

O'Brien & Gere Laboratories, Inc.

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:

Analytical Results Method: 8260

Job No.: 3027. 001 .11102
Certification NY No.: 10155

Sample: T3017
Samp. Description: WTP Effluent - Grab
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 14

Collected: 10/03/01
Received: 10/03/01
Prepared: 10/07/01
Matrix: Water
QC Batch: 100601W3
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed Notes
Acetone	<10.		1	10/07/01
Methylene chloride	<2.0		1	10/07/01
trans-1,2-Dichloroethene	<.50		1	10/07/01
cis-1,2-Dichloroethene	<.50		1	10/07/01
Trichloroethene	<.50		1	10/07/01
4-Methyl-2-pentanone	<5.0		1	10/07/01
Toluene	<.50		1	10/07/01
2-Hexanone	<5.0		1	10/07/01
Tetrachloroethene	<.50		1	10/07/01
1,1,2,2-Tetrachloroethane	<.50		1	10/07/01
Dibromofluoromethane (surrogate)	126. %	70 - 131	1	10/07/01
1,2-Dichloroethane-d4 (surrogate)	120. %	81 - 120	1	10/07/01
Toluene-d8 (surrogate)	105. %	83 - 117	1	10/07/01
Bromofluorobenzene (surrogate)	87. %	78 - 119	1	10/07/01

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 
Date: October 8, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:

Analytical Results Method: 8260

Job No.: 3027. 001 .11102
Certification NY No.: 10155

Sample: T3018
Samp. Description: WTP Influent
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 14

Collected: 10/03/01
Received: 10/03/01
Prepared: 10/07/01

Matrix: Water
QC Batch: 100701W3
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed Notes
Acetone	11.		1	10/07/01
Methylene chloride	<2.0		1	10/07/01
trans-1,2-Dichloroethene	<.50		1	10/07/01
cis-1,2-Dichloroethene	5.2		1	10/07/01
Trichloroethene	E 1900.		1	10/07/01
4-Methyl-2-pentanone	<5.0		1	10/07/01
Toluene	<.50		1	10/07/01
2-Hexanone	<5.0		1	10/07/01
Tetrachloroethene	<.50		1	10/07/01
1,1,2,2-Tetrachloroethane	<.50		1	10/07/01
Dibromofluoromethane (surrogate)	95. %	70 - 131	1	10/07/01
1,2-Dichloroethane-d4 (surrogate)	90. %	81 - 120	1	10/07/01
Toluene-d8 (surrogate)	86. %	83 - 117	1	10/07/01
Bromofluorobenzene (surrogate)	77. % #	78 - 119	1	10/07/01

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 
Date: October 9, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:

Analytical Results Method: 8260

Job No.: 3027. 001 .11102
Certification NY No.: 10155

Sample: T3018 DL
Samp. Description: WTP Influent
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 14

Collected: 10/03/01
Received: 10/03/01
Prepared: 10/07/01

Matrix: Water
QC Batch: 100701W3
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed Notes
Acetone	<500.		50	10/07/01
Methylene chloride	<100.		50	10/07/01
trans-1,2-Dichloroethene	<25.		50	10/07/01
cis-1,2-Dichloroethene	<25.		50	10/07/01
Trichloroethene	820.		50	10/07/01
4-Methyl-2-pentanone	<250.		50	10/07/01
Toluene	<25.		50	10/07/01
2-Hexanone	<250.		50	10/07/01
Tetrachloroethene	<25.		50	10/07/01
1,1,2,2-Tetrachloroethane	<25.		50	10/07/01
Dibromofluoromethane (surrogate)	124. %	70 - 131	50	10/07/01
1,2-Dichloroethane-d4 (surrogate)	116. %	81 - 120	50	10/07/01
Toluene-d8 (surrogate)	106. %	83 - 117	50	10/07/01
Bromofluorobenzene (surrogate)	86. %	78 - 119	50	10/07/01

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: Monika Santucci
Date: October 9, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:

Analytical Results Method: 8260

Job No.: 3027. 001 .11102
Certification NY No.: 10155

Sample: T3019
Samp. Description: WTP Between Carbons
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 14

Collected: 10/03/01
Received: 10/03/01
Prepared: 10/07/01

Matrix: Water
QC Batch: 100701W3
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed Notes
Acetone	12.		1	10/07/01
Methylene chloride	<2.0		1	10/07/01
trans-1,2-Dichloroethene	<.50		1	10/07/01
cis-1,2-Dichloroethene	2.1		1	10/07/01
Trichloroethene	.74		1	10/07/01
4-Methyl-2-pentanone	<5.0		1	10/07/01
Toluene	<.50		1	10/07/01
2-Hexanone	<5.0		1	10/07/01
Tetrachloroethene	<.50		1	10/07/01
1,1,2,2-Tetrachloroethane	<.50		1	10/07/01
Dibromofluoromethane (surrogate)	126. %	70 - 131	1	10/07/01
1,2-Dichloroethane-d4 (surrogate)	115. %	81 - 120	1	10/07/01
Toluene-d8 (surrogate)	104. %	83 - 117	1	10/07/01
Bromofluorobenzene (surrogate)	86. %	78 - 119	1	10/07/01

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: Monika Santucci
Date: October 9, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:

Analytical Results Trace Metals

Job No.: 3027.001.11102
Certification NY No.: 10155

Sample: T3033
Samp. Description: WTP Effluent (Lab Filter)
Units: mg/L

Collected: 10/03/01 Matrix: Water
Received: 10/03/01 %Solids:
Number of analytes: 1

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Aluminum	<.1	200.7	10/05/01	10/09/01	100501W2	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: October 15, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:

Analytical Results Trace Metals

Job No.: 3027.001 . 11102
Certification NY No.: 10155

Sample: T3016
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 10/03/01 Matrix: Water
Received: 10/03/01 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	10/08/01	10/08/01	100801W1	1	
Zinc	.06	200.7	10/05/01	10/09/01	100501W2	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: October 15, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Wet Chemistry**

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:

Job No.: 3027.001.11102
Certification NY No.: 10155

Package#: 132
Sample: T3016
Samp. Description: WTP Effluent - Composite

Collected: 10/03/01 13:15 Matrix: Water
Received: 10/03/01 14:50

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
CBOD5	<5. mg/L	SM5210B		10/04/01	100401W14	
Total Kjeldahl nitrogen	<.4 mg/L	EPA 351.2	10/09/01	10/09/01	100901W8	
Total dissolved solids	860. mg/L	EPA 160.1		10/05/01	100501W26	
Total suspended solids	<5. mg/L	EPA 160.2		10/08/01	100801W26	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: October 15, 2001 Monika Santucci

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132

Client: OGINA						Analysis/Method								
Project: Former Accurate Die						TSS/TDS CBODs TKN ALUMINUM ZN+HG-METALS VOCs DO, Residual								
Sampled by: MARTIN KOENNECKE														
Client Contact: AL FARRELL Phone # 2316														
Sample Description														
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers									
WTP Effluent	10-3-01	13:15	Water	Comp	5	1	1	1	1	1				
WTP Effluent	10-3-01	13:20	Water	GRAB	2						2			
WTP Influent	10-3-01	13:25	Water	GRAB	2						2			
WTP Between Carbons	10-3-01	13:28	Water	GRAB	2						2			
Relinquished by: Martin Koenecke Date: 10-3-01 Time: 14:50						Received by: _____ Date: _____ Time: _____								
Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: _____ Time: _____								
Relinquished by: _____ Date: _____ Time: _____						Received by Lab: Martin Koenecke Date: 10/3/2001 Time: 14:50								
Shipment Method: HAND DELIVERY						Airbill Number: _____								

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:

Job No.: 3027.001.11102
Certification NY No.: 10155

Package#: 186
Sample: T3307
Samp. Description: WTP Effluent

Collected: 10/10/01 Matrix: Water
Received: 10/10/01 08:55

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	880. mg/L	EPA 160.1		10/16/01	101601W25	
Total suspended solids	<5. mg/L	EPA 160.2		10/11/01	101101W27	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: October 29, 2001 Monika Santucci

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O'Brien & Gere Laboratories, Inc.

**5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200**

Chain of Custody

184

[illegible]**Turnaround Time Required:**

Routine X
Rush (Specify) _____

Comments:

Comments: Note - Samples ice'd for less than 30 minutes before arrival to the Lab. (u)

Cooler Temperature: 80

Original-Laboratory Copy-Client

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Method: 8260**

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 247
Sample: T3667
Samp. Description: WTP Effluent - Grab
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 14

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 10/17/01 Matrix: Water
Received: 10/17/01 QC Batch: 101801W3
Prepared: 10/18/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog		Analyzed	Notes
		Limits	Dilution		
Acetone	<10.		1	10/18/01	
Methylene chloride	<2.0		1	10/18/01	
trans-1,2-Dichloroethene	<.50		1	10/18/01	
cis-1,2-Dichloroethene	<.50		1	10/18/01	
Trichloroethene	<.50		1	10/18/01	
4-Methyl-2-pentanone	<5.0		1	10/18/01	
Toluene	<.50		1	10/18/01	
2-Hexanone	<5.0		1	10/18/01	
Tetrachloroethene	<.50		1	10/18/01	
1,1,2,2-Tetrachloroethane	<.50		1	10/18/01	
Dibromofluoromethane (surrogate)	98. %	70 - 131	1	10/18/01	
1,2-Dichloroethane-d4 (surrogate)	99. %	81 - 120	1	10/18/01	
Toluene-d8 (surrogate)	102. %	83 - 117	1	10/18/01	
Bromofluorobenzene (surrogate)	95. %	78 - 119	1	10/18/01	

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 

Date: October 19, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 247
Sample: T3668
Samp. Description: WTP Effluent - Composite
Units: mg/L

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 10/17/01 Matrix: Water
Received: 10/17/01 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut. Note
Mercury	<.0002	245.1	10/24/01	10/24/01	102401W1	1
Zinc	.03	200.7	10/23/01	10/24/01	102301W1	1

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: October 30, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:

Job No.: 3027.001.11102
Certification NY No.: 10155

Package#: 247
Sample: T3668
Samp. Description: WTP Effluent - Composite

Collected: 10/17/01 Matrix: Water
Received: 10/17/01 10:15

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	890. mg/L	EPA 160.1		10/18/01	101801W26	
Total suspended solids	<5. mg/L	EPA 160.2		10/19/01	101901W28	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: October 30, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

247

[illegible]

Original Laboratory Copy Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:

Job No.: 3027.001.11102
Certification NY No.: 10155

Package#: 302
Sample: T4162
Samp. Description: WTP Effluent

Collected: 10/24/01 Matrix: Water
Received: 10/24/01 09:35

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	950. mg/L	EPA 160.1		10/31/01	103101W21	
Total suspended solids	<5. mg/L	EPA 160.2		10/26/01	102601W28	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: November 2, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

302

Client: <u>OGINA</u>						Analysis/Method											
Project: <u>Former Accurate Die</u>						TSS/TDS											
Sampled by: <u>MARTIN Koennecke</u>																	
Client Contact: <u>AL FARRELL</u> Phone # <u>2316</u>																	
Sample Description																	
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers												
<u>WTP Effluent</u>	<u>10-24-01</u>	<u>9:00</u>	<u>Water</u>	<u>Comp</u>	<u>1</u>	<u>1</u>											
Relinquished by: <u>Martin Koennecke</u>			Date: <u>10-24-01</u> Time: <u>9:35</u>			Received by:			Date:			Time:					
Relinquished by: <u>1</u>			Date:			Time:			Received by:			Date:			Time:		
Relinquished by:			Date:			Time:			Received by Lab: <u>[Signature]</u>			Date: <u>10/24/01</u>			Time: <u>9:35</u>		
Shipment Method: <u>HAND</u>						Airbill Number:											

Turnaround Time Required:
 Routine X
 Rush (Specify) _____

Comments:

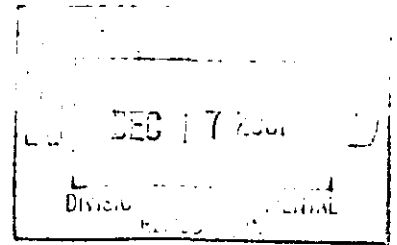
Cooler Temperature: 3°C

Original-Laboratory Copy-Client



O'BRIEN & GERE
ENGINEERS, INC.

December 13, 2001



Mr. John C. Grathwol, P.E.
Bureau of Construction Services - Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7017

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/25463 #2

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 November 2001. This report 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:

1. As of December 3, 2001, a total of 45,263,310 gallons of groundwater has been treated since startup on February 5, 1996. Since November 1, 2001, 510,020 gallons of groundwater was treated; 357,450 gallons from recovery well RW-1, 152,550 gallons from recovery well RW-2, and 20 gallons from the groundwater collection trench constructed in the former VOC/PAH/PCB Soils Area. No water was recovered from the sump located outside the northeast corner of the building.
2. 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 in November 2001 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.
3. Between November 8 and November 10, O'Brien & Gere completed the Annual round of ground water level measurements and sampling. The ground water level measurements are summarized on Table 2. The sampling event included monitoring wells MW-1, MW-2, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-21, MW-22, MW-23, MW-24, PZ-1, PZ-2 and the sump located outside the northeast corner of the facility. The analytical results associated with the ground water sampling event are summarized in Tables 3 and 4. The laboratory analytical data sheets are provided as Attachment B



O'Brien & Gere Engineers, Inc., an O'Brien & Gere company
5000 Brittonfield Parkway / P.O. Box 4873, Syracuse, New York 13221-4873
(315) 437-6100 / FAX (315) 463-7554 • [http:// www.obg.com](http://www.obg.com)
... and offices in major U.S. cities

Mr. John C. Grathwol, P.E.
December 13, 2001
Page 2

Activities Scheduled:

1. Continued operation of the ground water recovery and treatment system, including SPDES monitoring.

If you have any questions regarding this report, please do not hesitate to call me or Dave Carnevale at (315) 437-6100.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.



Alfred R. Farrell, P.E.
Senior Project Engineer

I:\DIV71\PROJECTS\2488\25463\2_CORRES\11-2001MOR.doc

Attachments

cc: A. English – NYSDEC
C. Branagh, P.E. – NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation – NYSDOH
H. Hamel – NYSDOH
M. Peters, Esq – LeBoeuf, Lamb, Greene & MacRae
P. Anderson – The Anderson Company
D. Carnevale – O'Brien & Gere Engineers, Inc.
J. Sperry – O'Brien & Gere Engineers, Inc.



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

Analyte (units)	Monitoring Requirements				Effluent	Effluent	Effluent	Effluent
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type	11/01/2001	11/06/2001	11/07/2001	11/08/2001
Flow (GPD)	Monitor	150000	Continuous	Meter	16600	16493	---	16340
pH (SU)	6.5 - 8.5		2/Week	Grab	8.25	8.27	---	8.25
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.	---	---	880	---
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	---	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	---	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	---	0.0002 U	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	---	0.03	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	---	0.50 U	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	---	0.50 U	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	---	2.0 U	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	---	0.50 U	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	---	0.50 U	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	---	0.50 U	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	---	0.50 U	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	---	10 U	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	---	5.0 U	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	---	5.0 U	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.

--- - Not analyzed, NA - Data not available

U - Not Detected, J - Estimated

TOD = 1.5 X CBOD5 + 4.5 X TKN



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

Analyte	Effluent 11/13/2001	Effluent 11/14/2001	Effluent 11/15/2001	Effluent 11/20/2001	Effluent 11/27/2001	Effluent 11/28/2001	Effluent 11/29/2001
Flow (GPD)	16070	---	16070	15910	15610	---	15410
pH (SU)	8.26	---	8.25	8.27	8.27	---	8.27
Residue, non-filterable (mg/L)	---	5 U	---	5 U	---	5 U	---
Total dissolved solids (TDS) (mg/L)	---	930	---	950	---	940	---
CBOD5 (mg/L)	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	0.0002 U	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	0.03	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	0.50 U	---	---	---
Tetrachloroethene (ug/L)	---	---	---	0.50 U	---	---	---
Toluene (ug/L)	---	---	---	0.50 U	---	---	---
Trichloroethene (ug/L)	---	---	---	0.50 U	---	---	---
Acetone (ug/L)	---	---	---	10 U	---	---	---
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified November 21, 1997.
 --- - Not analyzed, NA - Data not available
 U - Not Detected, J - Estimated
 TOD = 1.5 X CBOD5 + 4.5 X TKN



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Table 2

Former Accurate Die Casting Site
Fayetteville, New York
Ground Water Elevation Summary Table

WELL #	Ground Elevation (ft)	Well Casing Elevation (ft)	Screened Interval Elevation (ft)	Ground Water Elevation (ft) 05/28/1992	Ground Water Elevation (ft) 06/26/1992	Ground Water Elevation (ft) 08/07/1992	Ground Water Elevation (ft) 09/26/1994	Ground Water Elevation (ft) 09/27/1994	Ground Water Elevation (ft) 10/18/1994
MW-01	99.36	101.11	75.4 - 85.4	DRY	DRY	79.69	---	---	DRY
MW-02	91.80	94.68	76.6 - 86.6	83.21	82.81	84.32	83.10	83.28	80.12
MW-03	97.65	99.63	73.7 - 83.7	80.44	80.09	81.63	AB	AB	AB
MW-04	65.62	68.52	46.6 - 56.6	51.08	49.95	50.81	47.22	52.21	46.79
MW-05	88.21	90.42	49.2 - 59.2	60.71	63.76	61.22	59.87	59.91	59.45
MW-06	77.46	79.38	46.4 - 56.4	60.50	60.49	60.46	59.51	59.52	59.05
MW-07 (B)	75.66	78.34	34.3 - 44.3	54.59	54.55	54.47	53.90	53.97	53.55
MW-08	88.21	91.78	53.9 - 63.9	66.38	66.38	66.83	61.59	61.65	60.99
MW-09	102.44	104.03	49.7 - 59.7	60.46	60.51	61.83	59.57	59.59	59.08
MW-10 (B)	97.51	97.27	43.0 - 53.0	61.15	61.99	61.69	---	---	56.02
MW-11 (B)	91.48	93.80	43.1 - 53.1	62.34	63.70	63.66	58.41	58.39	57.47
MW-12	93.62	94.14	51.9 - 61.9	62.24	60.74	62.77	59.77	59.79	59.31
MW-13	98.80	98.70	77.7 - 87.7	DRY	80.62	80.92	---	---	78.70
MW-14	98.76	100.62	74.6 - 84.6	75.11	79.07	81.54	---	---	86.18
MW-15 (B)	96.10	98.90	32.7 - 42.7	NI	NI	NI	---	---	53.47
MW-16 (B)	98.50	100.85	50.8 - 60.8	NI	NI	NI	---	---	61.67
MW-17	66.90	69.24	53.7 - 63.7	NI	NI	NI	54.61	54.61	54.08
MW-18	76.50	78.29	61.5 - 71.5	NI	NI	NI	NI	NI	NI
MW-19	69.50	71.27	46.5 - 56.5	NI	NI	NI	NI	NI	NI
MW-20	70.98	72.89	51.9 - 61.9	NI	NI	NI	NI	NI	NI
MW-21	69.90	71.87	59.5 - 64.5	NI	NI	NI	NI	NI	NI
MW-22	71.50	73.34	60.9 - 65.9	NI	NI	NI	NI	NI	NI
MW-23 (B)	89.80	91.72	17.3 - 22.3	NI	NI	NI	NI	NI	NI
MW-24				NI	NI	NI	NI	NI	NI
PZ-01	81.80	83.95	49.8 - 59.8	NI	NI	NI	59.56	59.57	59.10
PZ-02	80.60	83.06	42.8 - 52.8	NI	NI	NI	59.35	59.36	58.89
RW-01	78.40	80.28	29.4-39.4 - 45.4-50.4	NI	NI	NI	56.88	56.89	58.22
RW-02 (B)	91.58	95.18	NA - NA	NI	NI	NI	NI	NI	NI
SUMP	NA	97.93	NA - NA	NI	NI	NI	NI	NI	NI

NOTES: NI-Well not installed at time of monitoring, NA-Data not available, AB-Well was abandoned, --- Water level not monitored, (B)-Bedrock ground water monitoring well, * - Measurement relative to top of well casing. Elevations based on assumed datum. MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler). MW-03 was removed as part of the TCE Soils Interim Remedial Measure (IRM) completed in September 1994. System start-up 02/06/96; System shutdown 02/15/96; System restored 02/20/96. MW-13 casing elev. changed 06/06/96. MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.



O'BRIEN & GERE
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Table 2

**Former Accurate Die Casting Site
Fayetteville, New York
Ground Water Elevation Summary Table**

WELL #	Ground Water Elevation (ft) 11/02/1994	Ground Water Elevation (ft) 11/17/1994	Ground Water Elevation (ft) 11/30/1994	Ground Water Elevation (ft) 12/15/1994	Ground Water Elevation (ft) 12/27/1994	Ground Water Elevation (ft) 01/13/1995	Ground Water Elevation (ft) 01/25/1995	Ground Water Elevation (ft) 02/09/1995	Ground Water Elevation (ft) 02/23/1995
MW-01	---	---	---	---	---	---	---	---	---
MW-02	---	---	---	---	---	---	---	---	---
MW-03	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-04	---	---	---	---	---	---	---	---	---
MW-05	---	---	---	---	---	---	---	---	---
MW-06	---	---	---	---	---	---	---	---	---
MW-07 (B)	---	---	---	---	---	---	---	---	---
MW-08	---	---	---	---	---	---	---	---	---
MW-09	---	---	---	---	---	---	---	---	---
MW-10 (B)	55.07	55.19	54.94	55.19	55.02	54.94	54.95	54.52	54.36
MW-11 (B)	50.01	56.68	55.59	56.63	56.55	55.63	55.63	56.13	55.63
MW-12	---	---	---	---	---	---	---	---	---
MW-13	82.92	78.21	78.21	80.92	78.34	78.25	77.83	77.84	77.75
MW-14	80.12	80.54	80.54	80.20	80.54	80.62	80.45	78.95	79.54
MW-15 (B)	---	---	---	---	---	---	---	---	---
MW-16 (B)	---	---	---	---	---	---	---	---	---
MW-17	---	---	---	---	---	---	---	---	---
MW-18	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-19	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-20	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-21	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-22	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-23 (B)	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-24	NI	NI	NI	NI	NI	NI	NI	NI	NI
PZ-01	---	---	---	---	---	---	---	---	---
PZ-02	---	---	---	---	---	---	---	---	---
RW-01	---	---	---	---	---	---	---	---	---
RW-02 (B)	NI	NI	NI	NI	NI	NI	NI	NI	NI
SUMP	76.04	74.83	75.00	75.17	74.83	75.00	75.00	74.88	75.00

NOTES: NI-Well not installed at time of monitoring, NA-Data not available, AB-Well was abandoned, --- Water level not monitored, (B)-Bedrock ground water monitoring well, * - Measurement relative to top of well casing. Elevations based on assumed datum. MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheeler). MW-03 was removed as part of the TCE Soils Interim Remedial Measure (IRM) completed in September 1994. System start-up 02/06/96; System shutdown 02/15/96; System restored 02/20/96. MW-13 casing elev. changed 06/06/96. MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.



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ENGINEERS, INC.

Table 2

**Former Accurate Die Casting Site
Fayetteville, New York
Ground Water Elevation Summary Table**

WELL #	Ground Water Elevation (ft) 03/09/1995	Ground Water Elevation (ft) 04/26/1995	Ground Water Elevation (ft) 07/25/1995	Ground Water Elevation (ft) 10/17/1995	Ground Water Elevation (ft) 02/05/1996	Ground Water Elevation (ft) 02/07/1996	Ground Water Elevation (ft) 02/15/1996	Ground Water Elevation (ft) 02/16/1996	Ground Water Elevation (ft) 02/20/1996
MW-01	---	DRY	DRY	DRY	77.06	76.64	75.30	DRY	DRY
MW-02	---	83.28	82.42	84.22	84.04	83.87	83.41	83.34	83.15
MW-03	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-04	---	51.44	45.94	50.05	53.60	52.06	55.39	54.43	52.46
MW-05	---	60.34	58.78	---	61.26	61.01	60.80	60.73	60.50
MW-06	---	60.02	58.52	58.10	60.86	60.44	60.41	60.11	59.80
MW-07 (B)	---	54.51	53.27	52.71	55.16	54.67	55.03	54.52	54.45
MW-08	---	63.41	59.82	60.76	66.61	66.40	65.93	65.84	65.47
MW-09	---	60.10	58.56	58.16	60.95	60.70	60.48	60.35	60.07
MW-10 (B)	55.02	57.49	54.60	54.61	62.00	59.88	62.11	60.42	59.96
MW-11 (B)	56.55	58.86	55.72	55.31	62.63	60.37	62.67	60.88	60.35
MW-12	---	60.30	58.76	58.35	61.11	60.83	60.65	60.50	60.21
MW-13	77.67	DRY	DRY	DRY	80.00	79.98	79.91	79.90	79.88
MW-14	80.12	80.61	80.61	80.72	79.91	80.02	80.28	80.29	80.35
MW-15 (B)	---	54.71	51.60	50.47	59.24	59.37	59.79	59.63	59.56
MW-16 (B)	---	63.86	59.41	58.06	67.14	67.17	66.90	66.79	66.57
MW-17	---	59.02	57.71	DRY	60.29	60.17	59.75	59.70	59.52
MW-18	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-19	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-20	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-21	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-22	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-23 (B)	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-24	NI	NI	NI	NI	NI	NI	NI	NI	NI
PZ-01	---	60.08	58.58	58.16	60.92	60.61	60.46	60.28	59.99
PZ-02	---	59.88	58.37	57.97	60.70	60.30	60.26	59.97	59.66
RW-01	---	59.14	57.60	57.11	59.64	55.04	59.22	54.71	54.40
RW-02 (B)	NI	NI	NI	56.05	63.80	59.98	63.83	60.67	60.09
SUMP	78.00	75.09	75.25	76.94	74.67	74.68	74.64	74.63	74.63

NOTES: NI-Well not installed at time of monitoring, NA-Data not available, AB-Well was abandoned, --- Water level not monitored, (B)-Bedrock ground water monitoring well, * - Measurement relative to top of well casing. Elevations based on assumed datum. MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheeler). MW-03 was removed as part of the TCE Soils Interim Remedial Measure (IRM) completed in September 1994. System start-up 02/06/96; System shutdown 02/15/96; System restored 02/20/96. MW-13 casing elev. changed 06/06/96. MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.



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ENGINEERS, INC.

Table 2

**Former Accurate Die Casting Site
Fayetteville, New York
Ground Water Elevation Summary Table**

WELL #	Ground Water Elevation (ft) 02/22/1996	Ground Water Elevation (ft) 02/29/1996	Ground Water Elevation (ft) 03/07/1996	Ground Water Elevation (ft) 03/21/1996	Ground Water Elevation (ft) 04/04/1996	Ground Water Elevation (ft) 04/10/1996	Ground Water Elevation (ft) 04/18/1996	Ground Water Elevation (ft) 05/02/1996	Ground Water Elevation (ft) 06/06/1996
MW-01	DRY	75.36	75.17	77.34	DRY	DRY	DRY	77.73	DRY
MW-02	83.32	83.67	83.50	84.24	83.68	83.68	84.86	85.35	83.17
MW-03	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-04	60.37	58.14	55.10	59.26	52.66	54.43	60.28	59.70	51.63
MW-05	60.40	60.14	59.73	58.85	58.32	58.14	58.20	58.71	60.54
MW-06	59.75	59.45	58.96	58.02	57.48	57.28	57.41	58.17	59.91
MW-07 (B)	54.58	54.46	54.32	54.29	54.17	54.15	54.32	54.75	55.02
MW-08	65.42	65.12	64.68	64.76	64.10	63.83	64.08	65.43	67.07
MW-09	60.02	59.71	59.22	58.30	57.78	57.59	57.73	58.46	60.18
MW-10 (B)	59.91	59.64	59.43	59.07	58.81	58.72	58.61	59.72	62.25
MW-11 (B)	60.29	59.99	59.78	59.38	59.10	59.01	58.94	60.35	62.68
MW-12	60.16	59.86	59.37	58.44	57.93	57.74	57.86	58.59	60.33
MW-13	79.87	79.86	79.77	79.68	79.60	79.57	79.52	79.44	79.28
MW-14	80.38	80.44	80.45	80.49	80.52	80.55	78.14	79.29	80.56
MW-15 (B)	59.56	59.46	59.40	59.14	59.07	59.04	58.84	59.87	62.62
MW-16 (B)	66.52	66.39	66.17	65.99	65.99	65.90	65.84	67.02	68.40
MW-17	59.64	59.42	59.28	59.30	59.27	59.14	59.30	59.95	59.22
MW-18	NI	NI	NI	NI	NI	NI	NI	NI	72.95
MW-19	NI	NI	NI	NI	NI	NI	NI	NI	DRY
MW-20	NI	NI	NI	NI	NI	NI	NI	NI	DRY
MW-21	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-22	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-23 (B)	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-24	NI	NI	NI	NI	NI	NI	NI	NI	NI
PZ-01	59.93	59.63	59.14	58.21	57.67	57.47	57.60	58.34	60.09
PZ-02	59.61	59.33	58.83	57.90	57.39	57.19	57.30	58.04	59.77
RW-01	54.35	54.05	53.58	52.76	52.24	52.03	52.11	52.69	53.82
RW-02 (B)	59.97	59.63	59.41	58.95	58.63	58.52	58.41	59.63	62.56
SUMP	75.30	74.90	74.65	74.87	74.69	74.99	75.89	75.76	74.73

NOTES: NI-Well not installed at time of monitoring, NA-Data not available, AB-Well was abandoned, --- Water level not monitored, (B)-Bedrock ground water monitoring well, * - Measurement relative to top of well casing. Elevations based on assumed datum. MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheeler). MW-03 was removed as part of the TCE Soils Interim Remedial Measure (IRM) completed in September 1994. System start-up 02/06/96; System shutdown 02/15/96; System restored 02/20/96. MW-13 casing elev. changed 06/06/96. MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.



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ENGINEERS, INC.

Table 2

**Former Accurate Die Casting Site
Fayetteville, New York
Ground Water Elevation Summary Table**

WELL #	Ground Water Elevation (ft) 07/16/1996	Ground Water Elevation (ft) 09/05/1996	Ground Water Elevation (ft) 10/21/1996	Ground Water Elevation (ft) 11/19/1996	Ground Water Elevation (ft) 01/16/1997	Ground Water Elevation (ft) 02/04/1997	Ground Water Elevation (ft) 04/15/1997	Ground Water Elevation (ft) 07/08/1997	Ground Water Elevation (ft) 10/22/1997
MW-01	DRY	DRY	DRY	76.60	75.15	---	75.64	DRY	DRY
MW-02	83.32	82.57	83.18	84.22	83.56	---	83.81	83.09	82.84
MW-03	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-04	52.45	DRY	55.91	55.91	53.12	---	AB	AB	AB
MW-05	58.98	56.33	55.40	56.49	59.15	---	59.83	59.16	58.34
MW-06	58.13	54.95	53.71	55.61	58.39	---	59.34	58.58	57.97
MW-07 (B)	53.95	52.44	51.22	52.68	54.28	---	54.70	52.93	50.63
MW-08	64.50	59.05	59.56	63.61	64.67	---	65.15	61.65	58.90
MW-09	58.38	55.38	54.24	56.64	58.65	---	59.60	58.76	58.00
MW-10 (B)	59.11	53.88	51.06	54.95	59.61	---	58.11	53.44	50.75
MW-11 (B)	59.53	54.72	52.88	55.85	60.15	---	58.59	55.20	52.50
MW-12	58.54	55.48	54.30	56.18	58.81	---	59.72	58.92	58.21
MW-13	79.35	79.15	79.07	80.68	80.49	---	80.33	79.84	79.53
MW-14	80.66	80.59	80.61	80.08	80.59	---	80.53	80.55	80.58
MW-15 (B)	59.24	54.83	51.58	51.99	58.83	---	59.83	56.63	50.48
MW-16 (B)	65.57	63.31	60.09	61.06	66.13	---	66.89	64.43	58.45
MW-17	58.46	57.89	55.96	58.02	59.33	---	59.64	58.33	DRY
MW-18	72.32	70.81	70.77	73.04	73.31	72.78	73.60	71.34	69.71
MW-19	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-20	50.26	DRY	DRY	DRY	DRY	---	AB	AB	AB
MW-21	NI	NI	NI	NI	NI	63.69	63.74	63.06	62.93
MW-22	NI	NI	NI	NI	NI	63.69	67.92	67.35	65.96
MW-23 (B)	NI	NI	NI	NI	NI	NI	37.71	35.61	32.29
MW-24	NI	NI	NI	NI	NI	NI	NI	NI	NI
PZ-01	58.31	55.13	53.90	55.83	58.57	---	59.51	58.70	58.01
PZ-02	57.97	54.90	53.53	55.25	58.23	---	59.13	58.34	57.65
RW-01	51.94	48.05	41.80	47.33	50.74	---	50.30	43.34	42.03
RW-02 (B)	59.14	51.01	42.02	55.39	60.03	---	55.69	44.07	42.89
SUMP	74.78	74.56	74.85	74.77	74.71	---	74.94	75.01	74.75

NOTES: NI-Well not installed at time of monitoring, NA-Data not available, AB-Well was abandoned, --- Water level not monitored, (B)-Bedrock ground water monitoring well, * - Measurement relative to top of well casing. Elevations based on assumed datum. MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheeler). MW-03 was removed as part of the TCE Soils Interim Remedial Measure (IRM) completed in September 1994. System start-up 02/06/96; System shutdown 02/15/96; System restored 02/20/96. MW-13 casing elev. changed 06/06/96. MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.



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Table 2

Former Accurate Die Casting Site
Fayetteville, New York
Ground Water Elevation Summary Table

WELL #	Ground Water Elevation (ft) 01/29/1998	Ground Water Elevation (ft) 04/15/1998	Ground Water Elevation (ft) 10/20/1998	Ground Water Elevation (ft) 04/28/1999	Ground Water Elevation (ft) 10/19/1999	Ground Water Elevation (ft) 04/06/2000	Ground Water Elevation (ft) 11/07/2000	Ground Water Elevation (ft) 07/03/2001	Ground Water Elevation (ft) 11/08/2001
MW-01	DRY	DRY	DRY	DRY	DRY	80.92	DRY	77.46	76.87
MW-02	83.47	83.52	83.54	83.38	84.44	86.58	83.06	84.33	83.67
MW-03	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-04	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-05	60.86	61.05	60.04	59.91	55.35	60.52	59.83	60.92	60.10
MW-06	60.46	60.57	59.69	59.11	53.34	60.36	59.40	55.87	59.67
MW-07 (B)	52.90	53.82	51.76	54.57	51.73	54.87	DRY	53.34	51.92
MW-08	64.98	67.17	59.86	64.21	62.37	66.41	61.45	65.63	60.92
MW-09	60.51	60.56	59.71	59.68	54.25	60.62	59.42	60.51	59.68
MW-10 (B)	55.78	61.08	51.88	57.97	51.32	57.60	52.73	57.22	52.60
MW-11 (B)	56.75	61.73	53.98	58.36	53.31	59.39	54.66	59.15	54.73
MW-12	60.67	60.80	59.89	59.53	54.09	60.71	59.62	60.63	59.87
MW-13	78.87	78.67	78.31	78.08	80.75	80.89	80.53	79.95	80.10
MW-14	80.78	80.78	80.64	80.54	80.67	80.60	80.75	79.74	80.77
MW-15 (B)	56.34	62.10	52.58	58.94	50.95	58.81	54.32	58.98	53.52
MW-16 (B)	65.71	68.03	61.84	65.99	59.81	66.92	63.57	66.14	63.58
MW-17	59.70	59.51	57.93	58.76	57.47	60.28	58.33	58.55	58.02
MW-18	73.50	73.29	70.74	72.46	70.78	75.08	71.61	72.09	71.36
MW-19	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-20	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-21	63.82	63.54	63.23	63.31	62.69	64.42	62.59	62.53	62.58
MW-22	68.51	68.39	67.83	68.05	67.69	68.52	66.42	68.13	68.15
MW-23 (B)	34.95	37.95	33.57	36.76	32.48	36.69	33.97	36.21	33.25
MW-24	NI	NI	NI	-7.38*	-10.22*	-9.96*	-10.43*	-10.41*	-10.39*
PZ-01	60.50	60.61	59.70	59.30	53.65	60.51	59.44	---	59.70
PZ-02	60.22	60.34	59.46	59.03	52.71	60.17	59.16	---	59.48
RW-01	43.13	32.60	32.36	54.69	---	50.73	40.88	---	36.48
RW-02 (B)	52.74	59.94	44.33	56.74	---	54.52	42.86	---	42.97
SUMP	74.89	74.96	75.20	75.26	---	78.49	74.91	75.33	75.05

NOTES: NI-Well not installed at time of monitoring, NA-Data not available, AB-Well was abandoned, --- Water level not monitored, (B)-Bedrock ground water monitoring well, * - Measurement relative to top of well casing. Elevations based on assumed datum. MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler). MW-03 was removed as part of the TCE Soils Interim Remedial Measure (IRM) completed in September 1994. System start-up 02/06/96; System shutdown 02/15/96; System restored 02/20/96. MW-13 casing elev. changed 06/06/96. MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.



O'BRIEN & GERE
ENGINEERS, INC.

Table 3
Former Accurate Die Casting Site
Fayetteville, New York
Ground Water Trichloroethylene Concentrations

Date Sampled:	08/1989	12/1989	05/1990	05/1992	07/1994	10/1994	02/1995	04/1995	07/1995
	TCE	TCE	TCE	TCE	TCE	TCE	TCE	TCE	TCE
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
WELL #									
MW-01	112	ND	2	ND	---	---	---	DRY	DRY
MW-02	ND	ND	1	ND	---	ND	ND	ND	ND
MW-03	Product	>55000	440000	340000	AB	AB	AB	AB	AB
MW-04	---	7	43	6	270	23	13	16	---
MW-05	---	340	344	110	330	410	290	280	---
MW-06	---	700	454	510	390	360	330	280	270
MW-07 (B)	---	ND	ND	ND	ND	ND	ND	ND	ND
MW-08	---	ND	ND	ND	---	ND	ND	ND	ND
MW-09	---	109	106	60	72	74	74	84	75
MW-10 (B)	---	---	---	4500	1600	1300	1400	1200	900
MW-11 (B)	---	---	---	5200	5500	5300	4300	3900	4000
MW-12	---	---	---	36	44	35	33	30	25
MW-13	---	---	---	110	740	510	---	DRY	DRY
MW-14	---	---	---	67	150	120	79	95	140
MW-15 (B)	---	---	---	NI	---	14	11	10	17
MW-16 (B)	---	---	---	NI	---	6	17	7	18
MW-17	---	---	---	NI	260	140	200	130	160
MW-18	---	---	---	NI	NI	NI	NI	NI	NI
MW-19	---	---	---	NI	NI	NI	NI	NI	NI
MW-20	---	---	---	NI	NI	NI	NI	NI	NI
MW-21	---	---	---	NI	NI	NI	NI	NI	NI
MW-22	---	---	---	NI	NI	NI	NI	NI	NI
MW-23 (B)	---	---	---	---	---	---	---	---	---
MW-24	NI	NI	NI	NI	NI	NI	NI	NI	NI
PZ-01	---	---	---	---	---	---	---	---	120
PZ-02	---	---	---	---	---	---	---	490	400
RW-01	---	---	---	NI	---	---	---	---	---
RW-02 (B)	---	---	---	NI	NI	NI	NI	NI	NI
SUMP	---	---	---	NI	NI	NI	---	---	---

NOTES: ND - Not detected above method detection limit, --- - Not analyzed, NI - Not installed at time of monitoring, AB - Well was abandoned.
 MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler).
 MW-03 removed as part of TCE Soils Interim Remedial Measure (IRM) completed in September 1994. Data was collected by Stearns & Wheler prior to 07/22/94.
 MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.



O'BRIEN & GERE
ENGINEERS, INC.

Table 3
Former Accurate Die Casting Site
Fayetteville, New York
Ground Water Trichloroethylene Concentrations

Date Sampled:	10/1995	01/1996	04/1996	05/1996	07/1996	10/1996	01/1997	04/1997	07/1997
	TCE	TCE	TCE	TCE	TCE	TCE	TCE	TCE	TCE
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
WELL #									
MW-01	DRY	---	---	---	---	---	---	---	DRY
MW-02	ND	---	---	---	---	ND	---	---	---
MW-03	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-04	15	---	---	---	---	62	---	AB	AB
MW-05	---	---	---	---	---	180	---	---	---
MW-06	180	170	110	---	98	71	75	52	---
MW-07 (B)	ND	---	---	---	---	ND	---	---	---
MW-08	ND	---	---	---	---	ND	---	---	---
MW-09	68	100	64	---	65	50	95	83	66
MW-10 (B)	890	900	820	---	960	1700	1900	1200	---
MW-11 (B)	2600	2500	1500	---	1400	1600	1500	800	---
MW-12	29	---	---	---	---	17	---	---	---
MW-13	DRY	---	---	---	---	370	---	---	---
MW-14	78	84	250	---	230	170	390	400	260
MW-15 (B)	7	---	---	---	---	20	---	---	---
MW-16 (B)	20	---	---	---	---	11	---	---	---
MW-17	---	180	350	---	460	300	450	220	150
MW-18	NI	NI	NI	1200	---	2900	850	410	1800
MW-19	NI	NI	NI	---	DRY	DRY	DRY	DRY	DRY
MW-20	NI	NI	NI	70	---	---	---	AB	AB
MW-21	NI	NI	NI	NI	NI	NI	NI	520	310
MW-22	NI	NI	NI	NI	NI	NI	NI	1	3
MW-23 (B)	---	---	---	---	---	---	---	ND	ND
MW-24	NI	NI	NI	NI	NI	NI	NI	NI	NI
PZ-01	---	---	---	---	---	32	---	---	---
PZ-02	---	---	---	---	---	540	---	---	---
RW-01	---	---	---	---	---	---	---	---	---
RW-02 (B)	---	---	---	---	---	---	---	---	---
SUMP	---	170	180	---	1000	---	320	180	---

NOTES: ND - Not detected above method detection limit, --- - Not analyzed, NI - Not installed at time of monitoring, AB - Well was abandoned.

MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheeler).

MW-03 removed as part of TCE Soils Interim Remedial Measure (IRM) completed in September 1994. Data was collected by Stearns & Wheeler prior to 07/22/94.

MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.



O'BRIEN & GERE
ENGINEERS, INC.

Table 3
Former Accurate Die Casting Site
Fayetteville, New York
Ground Water Trichloroethylene Concentrations

Date Sampled:	10/1997	01/1998	04/1998	10/1998	11/1998	04/1999	10/1999	04/2000	11/2000
	TCE	TCE	TCE	TCE	TCE	TCE	TCE	TCE	TCE
WELL #	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-01	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-02	ND	---	---	ND	---	---	ND	---	ND
MW-03	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-04	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-05	220	---	---	200	---	---	78	---	110
MW-06	ND	---	140	92	---	63	72	30	48
MW-07 (B)	ND	---	---	ND	---	---	ND	---	---
MW-08	---	---	---	ND	---	---	ND	---	ND
MW-09	61	140	120	80	---	120	46	69	60
MW-10 (B)	1300	---	930	880	---	720	700	530	690
MW-11 (B)	1600	---	920	1100	---	740	900	670	840
MW-12	19	---	---	22	---	---	15	---	17
MW-13	760	---	---	480	---	---	430	---	790
MW-14	560	560	460	400	---	460	260	250	280
MW-15 (B)	18	---	---	21	---	---	13	---	7
MW-16 (B)	14	---	---	4	---	---	15	---	3
MW-17	---	270	800	250	---	280	180	160	220
MW-18	3100	1000	1100	3600	---	620	1800	360	1900
MW-19	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-20	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-21	450	120	1300	180	---	510	90	42	73
MW-22	8	5	10	14	---	10	9	13	12
MW-23 (B)	ND	ND	---	ND	---	---	ND	---	ND
MW-24	NI	NI	NI	NI	6000	4300	4300	690	2400
PZ-01	48	---	---	85	---	---	410	---	29
PZ-02	420	---	---	250	---	---	18	---	160
RW-01	---	---	---	---	---	---	---	---	---
RW-02 (B)	---	---	---	---	---	---	---	---	---
SUMP	2600	---	560	850	---	400	---	490	1100

NOTES: ND - Not detected above method detection limit, --- - Not analyzed, NI - Not installed at time of monitoring, AB - Well was abandoned.
 MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler).
 MW-03 removed as part of TCE Soils Interim Remedial Measure (IRM) completed in September 1994. Data was collected by Stearns & Wheler prior to 07/22/94.
 MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.



O'BRIEN & GERE
ENGINEERS, INC.

Table 3
Former Accurate Die Casting Site
Fayetteville, New York
Ground Water Trichloroethylene Concentrations

Date Sampled:	07/2001	11/2001
	TCE	TCE
	ug/L	ug/L
WELL #		
MW-01	DRY	ND
MW-02	---	ND
MW-03	AB	AB
MW-04	AB	AB
MW-05	---	120
MW-06	89	92
MW-07 (B)	---	ND
MW-08	---	ND
MW-09	70	77
MW-10 (B)	600	900
MW-11 (B)	680	1000
MW-12	---	19
MW-13	---	520
MW-14	270	240
MW-15 (B)	---	27
MW-16 (B)	---	3
MW-17	240	230
MW-18	970	2000
MW-19	DRY	DRY
MW-20	AB	AB
MW-21	35	38
MW-22	13	13
MW-23 (B)	---	ND
MW-24	600	1500
PZ-01	---	---
PZ-02	---	---
RW-01	---	---
RW-02 (B)	---	---
SUMP	1000	1500

NOTES: ND - Not detected above method detection limit, --- - Not analyzed, NI - Not installed at time of monitoring, AB - Well was abandoned.
MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler).
MW-03 removed as part of TCE Soils Interim Remedial Measure (IRM) completed in September 1994. Data was collected by Stearns & Wheler prior to 07/22/94.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

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Table 4
Former Accurate Die Casting Site
Fayetteville, New York
Other Detected Volatile Organic Compounds

NOTES: --- Not detected.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.



Table 4

	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-18
Analyte	07/08/1997	01/29/1998	10/20/1998	04/29/1999	11/09/2000	07/03/2001	11/10/2001	10/22/1996
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
cis-1,2-Dichloroethene	---	---	---	---	15	10	10	81
Chloroform	--	---	---	---	---	---	---	--
Tetrachloroethene	18	12	17	23	7	7	8	---
Vinyl chloride	--	---	---	---	---	---	---	---

NOTES: --- Not detected.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.



O'BRIEN & GERE
ENGINEERS, INC.

Table 4
Former Accurate Die Casting Site
Fayetteville, New York
Other Detected Volatile Organic Compounds

Analyte	MW-18 07/08/1997 ug/L	MW-18 10/21/1998 ug/L	MW-18 04/29/1999 ug/L	MW-18 04/06/2000 ug/L	MW-18 11/09/2000 ug/L	MW-18 11/10/2001 ug/L	MW-20 05/24/1996 ug/L	MW-21 01/21/1997 ug/L
cis-1,2-Dichloroethene	66	160	37	14	100	120	46	650
Chloroform	---	---	---	---	---	---	---	---
Tetrachloroethene	---	---	---	---	---	---	---	---
Vinyl chloride	---	---	---	---	---	---	---	---

NOTES: --- Not detected.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

**Table 4**[illegible]

NOTES: --- Not detected.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.



O'BRIEN & GERE
ENGINEERS, INC.

Table 4
Former Accurate Die Casting Site
Fayetteville, New York
Other Detected Volatile Organic Compounds

Analyte	MW-21 04/06/2000 ug/L	MW-21 11/07/2000 ug/L	MW-21 07/03/2001 ug/L	MW-21 11/10/2001 ug/L	MW-22 01/21/1997 ug/L	MW-22 04/16/1997 ug/L	MW-22 07/08/1997 ug/L	MW-22 10/23/1997 ug/L
cis-1,2-Dichloroethene	140	220	130	240	5	4	9	22
Chloroform	---	---	---	---	---	---	---	---
Tetrachloroethene	---	---	---	---	---	---	---	---
Vinyl chloride	---	---	---	---	---	---	---	3

NOTES: --- Not detected.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

**Table 4**[illegible]

NOTES: --- Not detected.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.



Table 4

[illegible]

NOTES: --- Not detected.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.



Table 4
Former Accurate Die Casting Site
Fayetteville, New York
Other Detected Volatile Organic Compounds

NOTES: --- Not detected.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.



ATTACHMENT A

**SPDES PERMIT COMPLIANCE MONITORING
LABORATORY ANALYTICAL DATA REPORTS**

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Wet Chemistry**

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:

Job No.: 3027.001.11102
Certification NY No.: 10155

Package#: 366
Sample: T4556
Samp. Description: WTP Effluent

Collected: 10/31/01 Matrix: Water
Received: 11/01/01 07:55

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	890. mg/L	EPA 160.1		11/06/01	110601W25	
Total suspended solids	<5. mg/L	EPA 160.2		11/05/01	110501W25	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: ***** Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

366

Original Laboratory Copy Client

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Method: 8260**

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 425
Sample: T4884
Samp. Description: WTP Effluent - Grab
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 14

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/07/01 Matrix: Water
Received: 11/07/01 QC Batch: 110801W1
Prepared: 11/08/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	11/08/01	
Methylene chloride	<2.0		1	11/08/01	
trans-1,2-Dichloroethene	<.50		1	11/08/01	
cis-1,2-Dichloroethene	<.50		1	11/08/01	
Trichloroethene	<.50		1	11/08/01	
4-Methyl-2-pentanone	<5.0		1	11/08/01	
Toluene	<.50		1	11/08/01	
2-Hexanone	<5.0		1	11/08/01	
Tetrachloroethene	<.50		1	11/08/01	
1,1,2,2-Tetrachloroethane	<.50		1	11/08/01	
Dibromofluoromethane (surrogate)	103.%	70 - 131	1	11/08/01	
1,2-Dichloroethane-d4 (surrogate)	104.%	81 - 120	1	11/08/01	
Toluene-d8 (surrogate)	99.%	83 - 117	1	11/08/01	
Bromofluorobenzene (surrogate)	96.%	78 - 119	1	11/08/01	

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: Monika Santucci

Date: November 9, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 425
Sample: T4882
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/07/01 Matrix: Water
Received: 11/07/01 QC Batch: 112001W1
Prepared: 11/20/01 %Solids:
Analyzed: 11/20/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<50.	U	1	
Bromodichloromethane	<50.	U	1	
Bromoform	<500.	U	1	
Bromomethane	<500.	U	1	
Carbon tetrachloride	<50.	U	1	
Chlorobenzene	<50.	U	1	
Chloroethane	<50.	U	1	
2-Chloroethylvinyl ether	<500.	U	1	
Chloroform	<50.	U	1	
Chloromethane	<500.	U	1	
Dibromochloromethane	<50.	U	1	
1,2-Dichlorobenzene	<250.	U	1	
1,3-Dichlorobenzene	<250.	U	1	
1,4-Dichlorobenzene	<250.	U	1	
Dichlorodifluoromethane	<500.	U	1	
1,1-Dichloroethane	<50.	U	1	
1,2-Dichloroethane	<50.	U	1	
1,1-Dichloroethylene	<50.	U	1	
cis-1,2-Dichloroethylene	<50.	U	1	
trans-1,2-Dichloroethylene	<50.	U	1	
Dichloromethane	<50.	U	1	
1,2-Dichloropropane	<50.	U	1	
cis-1,3-Dichloropropylene	<50.	U	1	
trans-1,3-Dichloropropylene	<50.	U	1	
Ethylbenzene	<50.	U	1	
1,1,2,2-Tetrachloroethane	<50.	U	1	
Tetrachloroethylene	<50.	U	1	
Toluene	<50.	U	1	
1,1,1-Trichloroethane	<50.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: *Monika Santucci*
Date: November 21, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 425
Sample: T4882
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/07/01 Matrix: Water
Received: 11/07/01 QC Batch: 112001W1
Prepared: 11/20/01 %Solids:
Analyzed: 11/20/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<50.	U	1	
Trichloroethylene	710.		1	
Trichlorofluoromethane	<50.	U	1	
Vinyl Chloride	<50.	U	1	
Xylenes (total)	<150.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	99.%		1	76-121	
Fluorobenzene (surrogate)	101.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 21, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 425
Sample: T4883
Samp. Description: WTP Between GAC's
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/07/01 Matrix: Water
Received: 11/07/01 QC Batch: 112001W1
Prepared: 11/20/01 %Solids:
Analyzed: 11/20/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	5.		1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 21, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 425
Sample: T4883
Samp. Description: WTP Between GAC's
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/07/01 Matrix: Water
Received: 11/07/01 QC Batch: 112001W1
Prepared: 11/20/01 %Solids:
Analyzed: 11/20/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<1.	U	1	
Trichloroethylene	12.		1	
Trichlorofluoromethane	<1.	U	1	
Vinyl Chloride	<1.	U	1	
Xylenes (total)	<3.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	110.8		1	76-121	
Fluorobenzene (surrogate)	101.8		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: *Monika Santucci*
Date: November 21, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Trace Metals**

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 425
Sample: T4885
Samp. Description: WTP Effluent - Composite
Units: mg/L

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/07/01 Matrix: Water
Received: 11/07/01 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	11/12/01	11/12/01	111201W1	1	
Zinc	.03	200.7	11/08/01	11/13/01	110801W1	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Wet Chemistry**

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:

Job No.: 3027.001.11102
Certification NY No.: 10155

Package#: 425
Sample: T4885
Samp. Description: WTP Effluent - Composite

Collected: 11/07/01 Matrix: Water
Received: 11/07/01 14:55

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	880.	mg/L	EPA 160.1		11/09/01	110901W22	
Total suspended solids	<5.	mg/L	EPA 160.2		11/09/01	110901W21	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: November 16, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Client: O'BRIEN + GERE INC OF NORTH AMERICA										Analysis/Method									
Project: FORER ACURETIE DIE										100% BOD MTH 4/24/03 100% COD MTH 4/24/03 100% 5 DAY BOD 4/24/03 100% TSS MTH 4/24/03									
Sampled by: JERRY BORN																			
Client Contact: AL FARRELL																			
Phone # 2316																			
Sample Description																			
Sample Locallion	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers														
WTP INFLUENT	11/7/01	10:28 AM	WATER	GRAB	2														
WTP BETWEEN GRACS	11/7/01	10:30 AM	WATER	GRAB	2														
WTP EFFLUENT	11/7/01	10:33 AM	WATER	GRAB	2														
WTP EFFLUENT	11/7/01	10:36 AM	WATER	COMP	1														
WTP EFFLUENT	11/7/01	10:38 AM	WATER	COMP	1														
Refiniquished by:										Received by:				Date: Time:					
Refiniquished by:										Received by:				Date: Time:					
Refiniquished by: <i>Samuel L...</i>										Received by Lab: <i>Manly Jackson</i>				Date: 11/2/00, Time 14:55					
Shipment Method: <i>1-AND DELIVERED</i>										Arbitt Number:									

Turnaround Time Required:

Routine X
Ruth (Specify) _____

Cooler Temperature: 20°C

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:

Job No.: 3027.001.11102
Certification NY No.: 10155

Package#: 481
Sample: T5317
Samp. Description: WTP Effluent

Collected: 11/14/01 Matrix: Water
Received: 11/14/01 09:10

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	930. mg/L	EPA 160.1		11/20/01	112001W22	
Total suspended solids	<5. mg/L	EPA 160.2		11/19/01	111901W22	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

[illegible]

Turnaround Time Required:

Routine

Rush (Specify)

Comments:

Cooler Temperature: 52

	Original Laboratory	Copy Client
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O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 534
Sample: T5655
Samp. Description: WTP Effluent - Grab
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 14

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/20/01 Matrix: Water
Received: 11/20/01 QC Batch: 112001W3
Prepared: 11/21/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed Notes
Acetone	<10.		1	11/21/01
Methylene chloride	<2.0		1	11/21/01
trans-1,2-Dichloroethene	<.50		1	11/21/01
cis-1,2-Dichloroethene	<.50		1	11/21/01
Trichloroethene	<.50		1	11/21/01
4-Methyl-2-pentanone	<5.0		1	11/21/01
Toluene	<.50		1	11/21/01
2-Hexanone	<5.0		1	11/21/01
Tetrachloroethene	<.50		1	11/21/01
1,1,2,2-Tetrachloroethane	<.50		1	11/21/01
Dibromofluoromethane (surrogate)	102.%	70 - 131	1	11/21/01
1,2-Dichloroethane-d4 (surrogate)	103.%	81 - 120	1	11/21/01
Toluene-d8 (surrogate)	100.%	83 - 117	1	11/21/01
Bromofluorobenzene (surrogate)	96.%	78 - 119	1	11/21/01

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: Monika Santucci
Date: November 21, 2001 Monika Santucci

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Trace Metals**

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 534
Sample: T5654
Samp. Description: WTP Effluent - Composite
Units: mg/L

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/20/01 Matrix: Water
Received: 11/20/01 %Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut. Note
Mercury	<.0002	245.1	11/21/01	11/21/01	112101W1	1
Zinc	.03	200.7	11/21/01	11/26/01	112101W1	1

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: November 27, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:

Job No.: 3027.001.11102
Certification NY No.: 10155

Package#: 534
Sample: T5654
Samp. Description: WTP Effluent - Composite

Collected: 11/20/01 Matrix: Water
Received: 11/20/01 11:40

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	950. mg/L	EPA 160.1		11/26/01	112601W22	
Total suspended solids	<5. mg/L	EPA 160.2		11/21/01	112101W23	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: December 4, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Wet Chemistry**

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:

Job No.: 3027.001.11102
Certification NY No.: 10155

Package#: 575
Sample: T5989
Samp. Description: WTP Effluent

Collected: 11/28/01 Matrix: Water
Received: 11/28/01 10:00

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	940. mg/L	EPA 160.1		11/30/01	113001W23	
Total suspended solids	<5. mg/L	EPA 160.2		11/30/01	113001W24	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: December 4, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Client: <u>OGINA</u>		Analysis/Method															
Project: <u>Former Accurate DIE</u>		TSS - TDS															
Sampled by: <u>MARTIN KOENNECKE</u>																	
Client Contact: <u>AL FARRELL</u>																	
Phone # <u>2316</u>																	
Sample Description																	
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Comments											
<u>WTP Effluent</u>	<u>11-28-01</u>	<u>7:15</u>	<u>water</u>	<u>Comp</u>	<u>1</u>												
Retinquished by: <u>Martin Koenecke</u>						Date: <u>11-28-01</u>		Time: <u> </u>		Received by: <u> </u>		Date: <u> </u>		Time: <u> </u>			
Retinquished by: <u> </u>						Date: <u> </u>		Time: <u> </u>		Received by: <u> </u>		Date: <u> </u>		Time: <u> </u>			
Retinquished by: <u> </u>						Date: <u> </u>		Time: <u> </u>		Received by: <u> </u>		Date: <u>11/28/01</u>		Time: <u>10:00</u>			
Shipper Method: <u>HAND</u>						Akrill Number: <u> </u>											

Turnaround Time Required:
 Routine X
 Rush (Specify)

Comments:

Cooler Temperature: 3°C

ATTACHMENT B

**ANNUAL GROUND WATER MONITORING
LABORATORY ANALYTICAL DATA REPORTS**

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5199
Samp. Description: MW-1
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/08/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	<1.	U	1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Method: 8021**

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5199
Samp. Description: MW-1
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/08/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<1.	U	1	
Trichloroethylene	<1.	U	1	
Trichlorofluoromethane	<1.	U	1	
Vinyl Chloride	<1.	U	1	
Xylenes (total)	<3.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	104.%		1	76 - 121	
Fluorobenzene (surrogate)	101.%		1	81 - 114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 463
Sample: T5209
Samp. Description: MW-2
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/10/01 Matrix: Water
Received: 11/12/01 QC Batch: 112001W1
Prepared: 11/20/01 %Solids:
Analyzed: 11/20/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	<1.	U	1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 463
Sample: T5209
Samp. Description: MW-2
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/10/01 Matrix: Water
Received: 11/12/01 QC Batch: 112001W1
Prepared: 11/20/01 %Solids:
Analyzed: 11/20/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<1.	U	1	
Trichloroethylene	<1.	U	1	
Trichlorofluoromethane	<1.	U	1	
Vinyl Chloride	<1.	U	1	
Xylenes (total)	<3.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	109.%		1	76-121	
Fluorobenzene (surrogate)	101.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5202
Samp. Description: MW-5
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/09/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<5.	U	1	
Bromodichloromethane	<5.	U	1	
Bromoform	<50.	U	1	
Bromomethane	<50.	U	1	
Carbon tetrachloride	<5.	U	1	
Chlorobenzene	<5.	U	1	
Chloroethane	<5.	U	1	
2-Chloroethylvinyl ether	<50.	U	1	
Chloroform	<5.	U	1	
Chloromethane	<50.	U	1	
Dibromochloromethane	<5.	U	1	
1,2-Dichlorobenzene	<25.	U	1	
1,3-Dichlorobenzene	<25.	U	1	
1,4-Dichlorobenzene	<25.	U	1	
Dichlorodifluoromethane	<50.	U	1	
1,1-Dichloroethane	<5.	U	1	
1,2-Dichloroethane	<5.	U	1	
1,1-Dichloroethylene	<5.	U	1	
cis-1,2-Dichloroethylene	<5.	U	1	
trans-1,2-Dichloroethylene	<5.	U	1	
Dichloromethane	<5.	U	1	
1,2-Dichloropropane	<5.	U	1	
cis-1,3-Dichloropropylene	<5.	U	1	
trans-1,3-Dichloropropylene	<5.	U	1	
Ethylbenzene	<5.	U	1	
1,1,2,2-Tetrachloroethane	<5.	U	1	
Tetrachloroethylene	<5.	U	1	
Toluene	<5.	U	1	
1,1,1-Trichloroethane	<5.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: *Monika Santucci*
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5202
Samp. Description: MW-5
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/09/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<5.	U	1	
Trichloroethylene	120.		1	
Trichlorofluoromethane	<5.	U	1	
Vinyl Chloride	<5.	U	1	
Xylenes (total)	<15.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	97. %		1	76 - 121	
Fluorobenzene (surrogate)	102. %		1	81 - 114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: *Monika Santucci*
Date: November 26, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5201
Samp. Description: MW-6
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/09/01 Matrix: Water
Received: 11/09/01 QC Batch: 112001W1
Prepared: 11/20/01 %Solids:
Analyzed: 11/20/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<2.	U	1	
Bromodichloromethane	<2.	U	1	
Bromoform	<20.	U	1	
Bromomethane	<20.	U	1	
Carbon tetrachloride	<2.	U	1	
Chlorobenzene	<2.	U	1	
Chloroethane	<2.	U	1	
2-Chloroethylvinyl ether	<20.	U	1	
Chloroform	<2.	U	1	
Chloromethane	<20.	U	1	
Dibromochloromethane	<2.	U	1	
1,2-Dichlorobenzene	<10.	U	1	
1,3-Dichlorobenzene	<10.	U	1	
1,4-Dichlorobenzene	<10.	U	1	
Dichlorodifluoromethane	<20.	U	1	
1,1-Dichloroethane	<2.	U	1	
1,2-Dichloroethane	<2.	U	1	
1,1-Dichloroethylene	<2.	U	1	
cis-1,2-Dichloroethylene	<2.	U	1	
trans-1,2-Dichloroethylene	<2.	U	1	
Dichloromethane	<2.	U	1	
1,2-Dichloropropane	<2.	U	1	
cis-1,3-Dichloropropylene	<2.	U	1	
trans-1,3-Dichloropropylene	<2.	U	1	
Ethylbenzene	<2.	U	1	
1,1,2,2-Tetrachloroethane	<2.	U	1	
Tetrachloroethylene	<2.	U	1	
Toluene	<2.	U	1	
1,1,1-Trichloroethane	<2.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Method: 8021**

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5201
Samp. Description: MW-6
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/09/01 Matrix: Water
Received: 11/09/01 QC Batch: 112001W1
Prepared: 11/20/01 %Solids:
Analyzed: 11/20/01 Sample Size: 5 ml
Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<2.	U	1	
Trichloroethylene	92.		1	
Trichlorofluoromethane	<2.	U	1	
Vinyl Chloride	<2.	U	1	
Xylenes (total)	<6.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	105.8		1	76-121	
Fluorobenzene (surrogate)	101.8		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5203
Samp. Description: MW-7
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/09/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	<1.	U	1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Method: 8021**

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5203
Samp. Description: MW-7
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/09/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<1.	U	1	
Trichloroethylene	<1.	U	1	
Trichlorofluoromethane	<1.	U	1	
Vinyl Chloride	<1.	U	1	
Xylenes (total)	<3.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	107.%		1	76-121	
Fluorobenzene (surrogate)	102.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5194
Samp. Description: MW-8
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/08/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	<1.	U	1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5194
Samp. Description: MW-8
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/08/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<1.	U	1	
Trichloroethylene	<1.	U	1	
Trichlorofluoromethane	<1.	U	1	
Vinyl Chloride	<1.	U	1	
Xylenes (total)	<3.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	105.%		1	76-121	
Fluorobenzene (surrogate)	100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

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O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 463
Sample: T5217
Samp. Description: MW-9
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/10/01 Matrix: Water
Received: 11/12/01 QC Batch: 112101W1
Prepared: 11/21/01 %Solids:
Analyzed: 11/21/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<2.	U	1	
Bromodichloromethane	<2.	U	1	
Bromoform	<20.	U	1	
Bromomethane	<20.	U	1	
Carbon tetrachloride	<2.	U	1	
Chlorobenzene	<2.	U	1	
Chloroethane	<2.	U	1	
2-Chloroethylvinyl ether	<20.	U	1	
Chloroform	<2.	U	1	
Chloromethane	<20.	U	1	
Dibromochloromethane	<2.	U	1	
1,2-Dichlorobenzene	<10.	U	1	
1,3-Dichlorobenzene	<10.	U	1	
1,4-Dichlorobenzene	<10.	U	1	
Dichlorodifluoromethane	<20.	U	1	
1,1-Dichloroethane	<2.	U	1	
1,2-Dichloroethane	<2.	U	1	
1,1-Dichloroethylene	<2.	U	1	
cis-1,2-Dichloroethylene	<2.	U	1	
trans-1,2-Dichloroethylene	<2.	U	1	
Dichloromethane	<2.	U	1	
1,2-Dichloropropane	<2.	U	1	
cis-1,3-Dichloropropylene	<2.	U	1	
trans-1,3-Dichloropropylene	<2.	U	1	
Ethylbenzene	<2.	U	1	
1,1,2,2-Tetrachloroethane	<2.	U	1	
Tetrachloroethylene	<2.	U	1	
Toluene	<2.	U	1	
1,1,1-Trichloroethane	<2.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 463
Sample: T5217
Samp. Description: MW-9
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/10/01 Matrix: Water
Received: 11/12/01 QC Batch: 112101W1
Prepared: 11/21/01 %Solids:
Analyzed: 11/21/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<2.	U	1	
Trichloroethylene	77.		1	
Trichlorofluoromethane	<2.	U	1	
Vinyl Chloride	<2.	U	1	
Xylenes (total)	<6.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	81.%		1	76-121	
Fluorobenzene (surrogate)	101.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

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O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 463
Sample: T5216
Samp. Description: MW-10
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 20 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/10/01 Matrix: Water
Received: 11/12/01 QC Batch: 112101W1
Prepared: 11/21/01 %Solids:
Analyzed: 11/21/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<20.	U	1	
Bromodichloromethane	<20.	U	1	
Bromoform	<200.	U	1	
Bromomethane	<200.	U	1	
Carbon tetrachloride	<20.	U	1	
Chlorobenzene	<20.	U	1	
Chloroethane	<20.	U	1	
2-Chloroethylvinyl ether	<200.	U	1	
Chloroform	<20.	U	1	
Chloromethane	<200.	U	1	
Dibromochloromethane	<20.	U	1	
1,2-Dichlorobenzene	<100.	U	1	
1,3-Dichlorobenzene	<100.	U	1	
1,4-Dichlorobenzene	<100.	U	1	
Dichlorodifluoromethane	<200.	U	1	
1,1-Dichloroethane	<20.	U	1	
1,2-Dichloroethane	<20.	U	1	
1,1-Dichloroethylene	<20.	U	1	
cis-1,2-Dichloroethylene	<20.	U	1	
trans-1,2-Dichloroethylene	<20.	U	1	
Dichloromethane	<20.	U	1	
1,2-Dichloropropane	<20.	U	1	
cis-1,3-Dichloropropylene	<20.	U	1	
trans-1,3-Dichloropropylene	<20.	U	1	
Ethylbenzene	<20.	U	1	
1,1,2,2-Tetrachloroethane	<20.	U	1	
Tetrachloroethylene	<20.	U	1	
Toluene	<20.	U	1	
1,1,1-Trichloroethane	<20.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 463
Sample: T5216
Samp. Description: MW-10
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 20 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/10/01 Matrix: Water
Received: 11/12/01 QC Batch: 112101W1
Prepared: 11/21/01 %Solids:
Analyzed: 11/21/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<20.	U	1	
Trichloroethylene	900.		1	
Trichlorofluoromethane	<20.	U	1	
Vinyl Chloride	<20.	U	1	
Xylenes (total)	<60.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	95.%		1	76-121	
Fluorobenzene (surrogate)	101.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5204
Samp. Description: MW-11
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 20 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/09/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<20.	U	1	
Bromodichloromethane	<20.	U	1	
Bromoform	<200.	U	1	
Bromomethane	<200.	U	1	
Carbon tetrachloride	<20.	U	1	
Chlorobenzene	<20.	U	1	
Chloroethane	<20.	U	1	
2-Chloroethylvinyl ether	<200.	U	1	
Chloroform	<20.	U	1	
Chloromethane	<200.	U	1	
Dibromochloromethane	<20.	U	1	
1,2-Dichlorobenzene	<100.	U	1	
1,3-Dichlorobenzene	<100.	U	1	
1,4-Dichlorobenzene	<100.	U	1	
Dichlorodifluoromethane	<200.	U	1	
1,1-Dichloroethane	<20.	U	1	
1,2-Dichloroethane	<20.	U	1	
1,1-Dichloroethylene	<20.	U	1	
cis-1,2-Dichloroethylene	<20.	U	1	
trans-1,2-Dichloroethylene	<20.	U	1	
Dichloromethane	<20.	U	1	
1,2-Dichloropropane	<20.	U	1	
cis-1,3-Dichloropropylene	<20.	U	1	
trans-1,3-Dichloropropylene	<20.	U	1	
Ethylbenzene	<20.	U	1	
1,1,2,2-Tetrachloroethane	<20.	U	1	
Tetrachloroethylene	<20.	U	1	
Toluene	<20.	U	1	
1,1,1-Trichloroethane	<20.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5204
Samp. Description: MW-11
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 20 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/09/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<20.	U	1	
Trichloroethylene	1000.		1	
Trichlorofluoromethane	<20.	U	1	
Vinyl Chloride	<20.	U	1	
Xylenes (total)	<60.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	96.%		1	76-121	
Fluorobenzene (surrogate)	100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

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O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5205
Samp. Description: MW-12
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/09/01 Matrix: Water
Received: 11/09/01 QC Batch: 112001W1
Prepared: 11/20/01 %Solids:
Analyzed: 11/20/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	<1.	U	1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Method: 8021**

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5205
Samp. Description: MW-12
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/09/01 Matrix: Water
Received: 11/09/01 QC Batch: 112001W1
Prepared: 11/20/01 %Solids:
Analyzed: 11/20/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<1.	U	1	
Trichloroethylene	19.		1	
Trichlorofluoromethane	<1.	U	1	
Vinyl Chloride	<1.	U	1	
Xylenes (total)	<3.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	108.%		1	76-121	
Fluorobenzene (surrogate)	100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

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O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5197
Samp. Description: MW-13
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 20 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/08/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<20.	U	1	
Bromodichloromethane	<20.	U	1	
Bromoform	<200.	U	1	
Bromomethane	<200.	U	1	
Carbon tetrachloride	<20.	U	1	
Chlorobenzene	<20.	U	1	
Chloroethane	<20.	U	1	
2-Chloroethylvinyl ether	<200.	U	1	
Chloroform	40.		1	
Chloromethane	<200.	U	1	
Dibromochloromethane	<20.	U	1	
1,2-Dichlorobenzene	<100.	U	1	
1,3-Dichlorobenzene	<100.	U	1	
1,4-Dichlorobenzene	<100.	U	1	
Dichlorodifluoromethane	<200.	U	1	
1,1-Dichloroethane	<20.	U	1	
1,2-Dichloroethane	<20.	U	1	
1,1-Dichloroethylene	<20.	U	1	
cis-1,2-Dichloroethylene	<20.	U	1	
trans-1,2-Dichloroethylene	<20.	U	1	
Dichloromethane	<20.	U	1	
1,2-Dichloropropane	<20.	U	1	
cis-1,3-Dichloropropylene	<20.	U	1	
trans-1,3-Dichloropropylene	<20.	U	1	
Ethylbenzene	<20.	U	1	
1,1,2,2-Tetrachloroethane	<20.	U	1	
Tetrachloroethylene	<20.	U	1	
Toluene	<20.	U	1	
1,1,1-Trichloroethane	<20.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5197
Samp. Description: MW-13
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 20 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/08/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<20.	U	1	
Trichloroethylene	520.		1	
Trichlorofluoromethane	<20.	U	1	
Vinyl Chloride	<20.	U	1	
Xylenes (total)	<60.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	97.%		1	76-121	
Fluorobenzene (surrogate)	101.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5198
Samp. Description: MW-14
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/08/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<5.	U	1	
Bromodichloromethane	<5.	U	1	
Bromoform	<50.	U	1	
Bromomethane	<50.	U	1	
Carbon tetrachloride	<5.	U	1	
Chlorobenzene	<5.	U	1	
Chloroethane	<5.	U	1	
2-Chloroethylvinyl ether	<50.	U	1	
Chloroform	<5.	U	1	
Chloromethane	<50.	U	1	
Dibromochloromethane	<5.	U	1	
1,2-Dichlorobenzene	<25.	U	1	
1,3-Dichlorobenzene	<25.	U	1	
1,4-Dichlorobenzene	<25.	U	1	
Dichlorodifluoromethane	<50.	U	1	
1,1-Dichloroethane	<5.	U	1	
1,2-Dichloroethane	<5.	U	1	
1,1-Dichloroethylene	<5.	U	1	
cis-1,2-Dichloroethylene	<5.	U	1	
trans-1,2-Dichloroethylene	<5.	U	1	
Dichloromethane	<5.	U	1	
1,2-Dichloropropane	<5.	U	1	
cis-1,3-Dichloropropylene	<5.	U	1	
trans-1,3-Dichloropropylene	<5.	U	1	
Ethylbenzene	<5.	U	1	
1,1,2,2-Tetrachloroethane	<5.	U	1	
Tetrachloroethylene	<5.	U	1	
Toluene	<5.	U	1	
1,1,1-Trichloroethane	<5.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: -461
Sample: T5198
Samp. Description: MW-14
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/08/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<5.	U	1	
Trichloroethylene	240.		1	
Trichlorofluoromethane	<5.	U	1	
Vinyl Chloride	<5.	U	1	
Xylenes (total)	<15.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	101.%		1	76-121	
Fluorobenzene (surrogate)	101.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5193
Samp. Description: MW-15
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/08/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	<1.	U	1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: *Monika Santucci*
Date: November 26, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5193
Samp. Description: MW-15
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/08/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml
Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<1.	U	1	
Trichloroethylene	27.		1	
Trichlorofluoromethane	<1.	U	1	
Vinyl Chloride	<1.	U	1	
Xylenes (total)	<3.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	98.%		1	76-121	
Fluorobenzene (surrogate)	101.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: *Monika Santucci*
Date: November 26, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5200
Samp. Description: MW-16
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/08/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	<1.	U	1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5200
Samp. Description: MW-16
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/08/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<1.	U	1	
Trichloroethylene	3.		1	
Trichlorofluoromethane	<1.	U	1	
Vinyl Chloride	<1.	U	1	
Xylenes (total)	<3.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	104.8		1	76 - 121	
Fluorobenzene (surrogate)	101.8		1	81 - 114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 463
Sample: T5213
Samp. Description: MW-17
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/10/01 Matrix: Water
Received: 11/12/01 QC Batch: 112001W1
Prepared: 11/20/01 %Solids:
Analyzed: 11/20/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<5.	U	1	
Bromodichloromethane	<5.	U	1	
Bromoform	<50.	U	1	
Bromomethane	<50.	U	1	
Carbon tetrachloride	<5.	U	1	
Chlorobenzene	<5.	U	1	
Chloroethane	<5.	U	1	
2-Chloroethylvinyl ether	<50.	U	1	
Chloroform	<5.	U	1	
Chloromethane	<50.	U	1	
Dibromochloromethane	<5.	U	1	
1,2-Dichlorobenzene	<25.	U	1	
1,3-Dichlorobenzene	<25.	U	1	
1,4-Dichlorobenzene	<25.	U	1	
Dichlorodifluoromethane	<50.	U	1	
1,1-Dichloroethane	<5.	U	1	
1,2-Dichloroethane	<5.	U	1	
1,1-Dichloroethylene	<5.	U	1	
cis-1,2-Dichloroethylene	10.		1	
trans-1,2-Dichloroethylene	<5.	U	1	
Dichloromethane	<5.	U	1	
1,2-Dichloropropane	<5.	U	1	
cis-1,3-Dichloropropylene	<5.	U	1	
trans-1,3-Dichloropropylene	<5.	U	1	
Ethylbenzene	<5.	U	1	
1,1,2,2-Tetrachloroethane	<5.	U	1	
Tetrachloroethylene	8.		1	
Toluene	<5.	U	1	
1,1,1-Trichloroethane	<5.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: *Monika Santucci*
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 463
Sample: T5213
Samp. Description: MW-17
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/10/01 Matrix: Water
Received: 11/12/01 QC Batch: 112001W1
Prepared: 11/20/01 %Solids:
Analyzed: 11/20/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<5.	U	1	
Trichloroethylene	230.		1	
Trichlorofluoromethane	<5.	U	1	
Vinyl Chloride	<5.	U	1	
Xylenes (total)	<15.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	110.%		1	76-121	
Fluorobenzene (surrogate)	101.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: *Monika Santucci*
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 463
Sample: T5215
Samp. Description: MW-18
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/10/01 Matrix: Water
Received: 11/12/01 QC Batch: 112101W1
Prepared: 11/21/01 %Solids:
Analyzed: 11/21/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<50.	U	1	
Bromodichloromethane	<50.	U	1	
Bromoform	<500.	U	1	
Bromomethane	<500.	U	1	
Carbon tetrachloride	<50.	U	1	
Chlorobenzene	<50.	U	1	
Chloroethane	<50.	U	1	
2-Chloroethylvinyl ether	<500.	U	1	
Chloroform	<50.	U	1	
Chloromethane	<500.	U	1	
Dibromochloromethane	<50.	U	1	
1,2-Dichlorobenzene	<250.	U	1	
1,3-Dichlorobenzene	<250.	U	1	
1,4-Dichlorobenzene	<250.	U	1	
Dichlorodifluoromethane	<500.	U	1	
1,1-Dichloroethane	<50.	U	1	
1,2-Dichloroethane	<50.	U	1	
1,1-Dichloroethylene	<50.	U	1	
cis-1,2-Dichloroethylene	120.		1	
trans-1,2-Dichloroethylene	<50.	U	1	
Dichloromethane	<50.	U	1	
1,2-Dichloropropane	<50.	U	1	
cis-1,3-Dichloropropylene	<50.	U	1	
trans-1,3-Dichloropropylene	<50.	U	1	
Ethylbenzene	<50.	U	1	
1,1,2,2-Tetrachloroethane	<50.	U	1	
Tetrachloroethylene	<50.	U	1	
Toluene	<50.	U	1	
1,1,1-Trichloroethane	<50.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 463
Sample: T5215
Samp. Description: MW-18
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/10/01 Matrix: Water
Received: 11/12/01 QC Batch: 112101W1
Prepared: 11/21/01 %Solids:
Analyzed: 11/21/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<50.	U	1	
Trichloroethylene	2000.		1	
Trichlorofluoromethane	<50.	U	1	
Vinyl Chloride	<50.	U	1	
Xylenes (total)	<150.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	98.8		1	76-121	
Fluorobenzene (surrogate)	101.8		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 463
Sample: T5211
Samp. Description: MW-21
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/10/01 Matrix: Water
Received: 11/12/01 QC Batch: 112001W1
Prepared: 11/20/01 %Solids:
Analyzed: 11/20/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<5.	U	1	
Bromodichloromethane	<5.	U	1	
Bromoform	<50.	U	1	
Bromomethane	<50.	U	1	
Carbon tetrachloride	<5.	U	1	
Chlorobenzene	<5.	U	1	
Chloroethane	<5.	U	1	
2-Chloroethylvinyl ether	<50.	U	1	
Chloroform	<5.	U	1	
Chloromethane	<50.	U	1	
Dibromochloromethane	<5.	U	1	
1,2-Dichlorobenzene	<25.	U	1	
1,3-Dichlorobenzene	<25.	U	1	
1,4-Dichlorobenzene	<25.	U	1	
Dichlorodifluoromethane	<50.	U	1	
1,1-Dichloroethane	<5.	U	1	
1,2-Dichloroethane	<5.	U	1	
1,1-Dichloroethylene	<5.	U	1	
cis-1,2-Dichloroethylene	240.		1	
trans-1,2-Dichloroethylene	<5.	U	1	
Dichloromethane	<5.	U	1	
1,2-Dichloropropane	<5.	U	1	
cis-1,3-Dichloropropylene	<5.	U	1	
trans-1,3-Dichloropropylene	<5.	U	1	
Ethylbenzene	<5.	U	1	
1,1,2,2-Tetrachloroethane	<5.	U	1	
Tetrachloroethylene	<5.	U	1	
Toluene	<5.	U	1	
1,1,1-Trichloroethane	<5.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: *Monika Santucci*
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 463
Sample: T5211
Samp. Description: MW-21
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/10/01 Matrix: Water
Received: 11/12/01 QC Batch: 112001W1
Prepared: 11/20/01 %Solids:
Analyzed: 11/20/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<5.	U	1	
Trichloroethylene	38.		1	
Trichlorofluoromethane	<5.	U	1	
Vinyl Chloride	<5.	U	1	
Xylenes (total)	<15.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	112.%		1	76-121	
Fluorobenzene (surrogate)	101.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 463
Sample: T5210
Samp. Description: MW-22
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/10/01 Matrix: Water
Received: 11/12/01 QC Batch: 112001W1
Prepared: 11/20/01 %Solids:
Analyzed: 11/20/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	36.		1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 463
Sample: T5210
Samp. Description: MW-22
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/10/01 Matrix: Water
Received: 11/12/01 QC Batch: 112001W1
Prepared: 11/20/01 %Solids:
Analyzed: 11/20/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<1.	U	1	
Trichloroethylene	13.		1	
Trichlorofluoromethane	<1.	U	1	
Vinyl Chloride	<1.	U	1	
Xylenes (total)	<3.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	112.8		1	76 - 121	
Fluorobenzene (surrogate)	101.8		1	81 - 114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: *Monika Santucci*
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5195
Samp. Description: MW-23
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/08/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<1.	U	1	
Bromodichloromethane	<1.	U	1	
Bromoform	<10.	U	1	
Bromomethane	<10.	U	1	
Carbon tetrachloride	<1.	U	1	
Chlorobenzene	<1.	U	1	
Chloroethane	<1.	U	1	
2-Chloroethylvinyl ether	<10.	U	1	
Chloroform	<1.	U	1	
Chloromethane	<10.	U	1	
Dibromochloromethane	<1.	U	1	
1,2-Dichlorobenzene	<5.	U	1	
1,3-Dichlorobenzene	<5.	U	1	
1,4-Dichlorobenzene	<5.	U	1	
Dichlorodifluoromethane	<10.	U	1	
1,1-Dichloroethane	<1.	U	1	
1,2-Dichloroethane	<1.	U	1	
1,1-Dichloroethylene	<1.	U	1	
cis-1,2-Dichloroethylene	<1.	U	1	
trans-1,2-Dichloroethylene	<1.	U	1	
Dichloromethane	<1.	U	1	
1,2-Dichloropropane	<1.	U	1	
cis-1,3-Dichloropropylene	<1.	U	1	
trans-1,3-Dichloropropylene	<1.	U	1	
Ethylbenzene	<1.	U	1	
1,1,2,2-Tetrachloroethane	<1.	U	1	
Tetrachloroethylene	<1.	U	1	
Toluene	<1.	U	1	
1,1,1-Trichloroethane	<1.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: *Monika Santucci*
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5195
Samp. Description: MW-23
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/08/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml
Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<1.	U	1	
Trichloroethylene	<1.	U	1	
Trichlorofluoromethane	<1.	U	1	
Vinyl Chloride	<1.	U	1	
Xylenes (total)	<3.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	103.%		1	76-121	
Fluorobenzene (surrogate)	101.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 463
Sample: T5214
Samp. Description: MW-24
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/10/01 Matrix: Water
Received: 11/12/01 QC Batch: 112101W1
Prepared: 11/21/01 %Solids:
Analyzed: 11/21/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<50.	U	1	
Bromodichloromethane	<50.	U	1	
Bromoform	<500.	U	1	
Bromomethane	<500.	U	1	
Carbon tetrachloride	<50.	U	1	
Chlorobenzene	<50.	U	1	
Chloroethane	<50.	U	1	
2-Chloroethylvinyl ether	<500.	U	1	
Chloroform	<50.	U	1	
Chloromethane	<500.	U	1	
Dibromochloromethane	<50.	U	1	
1,2-Dichlorobenzene	<250.	U	1	
1,3-Dichlorobenzene	<250.	U	1	
1,4-Dichlorobenzene	<250.	U	1	
Dichlorodifluoromethane	<500.	U	1	
1,1-Dichloroethane	<50.	U	1	
1,2-Dichloroethane	<50.	U	1	
1,1-Dichloroethylene	<50.	U	1	
cis-1,2-Dichloroethylene	2100.		1	
trans-1,2-Dichloroethylene	<50.	U	1	
Dichloromethane	<50.	U	1	
1,2-Dichloropropane	<50.	U	1	
cis-1,3-Dichloropropylene	<50.	U	1	
trans-1,3-Dichloropropylene	<50.	U	1	
Ethylbenzene	<50.	U	1	
1,1,2,2-Tetrachloroethane	<50.	U	1	
Tetrachloroethylene	<50.	U	1	
Toluene	<50.	U	1	
1,1,1-Trichloroethane	<50.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 463
Sample: T5214
Samp. Description: MW-24
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/10/01 Matrix: Water
Received: 11/12/01 QC Batch: 112101W1
Prepared: 11/21/01 %Solids:
Analyzed: 11/21/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<50.	U	1	
Trichloroethylene	1500.		1	
Trichlorofluoromethane	<50.	U	1	
Vinyl Chloride	<50.	U	1	
Xylenes (total)	<150.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	110.%		1	76 - 121	
Fluorobenzene (surrogate)	101.%		1	81 - 114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5206
Samp. Description: PZ-1
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/09/01 Matrix: Water
Received: 11/09/01 QC Batch: 112101W1
Prepared: 11/21/01 %Solids:
Analyzed: 11/21/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<2.	U	1	
Bromodichloromethane	<2.	U	1	
Bromoform	<20.	U	1	
Bromomethane	<20.	U	1	
Carbon tetrachloride	<2.	U	1	
Chlorobenzene	<2.	U	1	
Chloroethane	<2.	U	1	
2-Chloroethylvinyl ether	<20.	U	1	
Chloroform	<2.	U	1	
Chloromethane	<20.	U	1	
Dibromochloromethane	<2.	U	1	
1,2-Dichlorobenzene	<10.	U	1	
1,3-Dichlorobenzene	<10.	U	1	
1,4-Dichlorobenzene	<10.	U	1	
Dichlorodifluoromethane	<20.	U	1	
1,1-Dichloroethane	<2.	U	1	
1,2-Dichloroethane	<2.	U	1	
1,1-Dichloroethylene	<2.	U	1	
cis-1,2-Dichloroethylene	<2.	U	1	
trans-1,2-Dichloroethylene	<2.	U	1	
Dichloromethane	<2.	U	1	
1,2-Dichloropropane	<2.	U	1	
cis-1,3-Dichloropropylene	<2.	U	1	
trans-1,3-Dichloropropylene	<2.	U	1	
Ethylbenzene	<2.	U	1	
1,1,2,2-Tetrachloroethane	<2.	U	1	
Tetrachloroethylene	<2.	U	1	
Toluene	<2.	U	1	
1,1,1-Trichloroethane	<2.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

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O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5206
Samp. Description: PZ-1
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/09/01 Matrix: Water
Received: 11/09/01 QC Batch: 112101W1
Prepared: 11/21/01 %Solids:
Analyzed: 11/21/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<2.	U	1	
Trichloroethylene	79.		1	
Trichlorofluoromethane	<2.	U	1	
Vinyl Chloride	<2.	U	1	
Xylenes (total)	<6.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	112.%		1	76-121	
Fluorobenzene (surrogate)	102.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 463
Sample: T5212
Samp. Description: PZ-2
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/10/01 Matrix: Water
Received: 11/12/01 QC Batch: 112001W1
Prepared: 11/20/01 %Solids:
Analyzed: 11/20/01 Sample Size: 5 ml
Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<5.	U	1	
Bromodichloromethane	<5.	U	1	
Bromoform	<50.	U	1	
Bromomethane	<50.	U	1	
Carbon tetrachloride	<5.	U	1	
Chlorobenzene	<5.	U	1	
Chloroethane	<5.	U	1	
2-Chloroethylvinyl ether	<50.	U	1	
Chloroform	<5.	U	1	
Chloromethane	<50.	U	1	
Dibromochloromethane	<5.	U	1	
1,2-Dichlorobenzene	<25.	U	1	
1,3-Dichlorobenzene	<25.	U	1	
1,4-Dichlorobenzene	<25.	U	1	
Dichlorodifluoromethane	<50.	U	1	
1,1-Dichloroethane	<5.	U	1	
1,2-Dichloroethane	<5.	U	1	
1,1-Dichloroethylene	<5.	U	1	
cis-1,2-Dichloroethylene	<5.	U	1	
trans-1,2-Dichloroethylene	<5.	U	1	
Dichloromethane	<5.	U	1	
1,2-Dichloropropane	<5.	U	1	
cis-1,3-Dichloropropylene	<5.	U	1	
trans-1,3-Dichloropropylene	<5.	U	1	
Ethylbenzene	<5.	U	1	
1,1,2,2-Tetrachloroethane	<5.	U	1	
Tetrachloroethylene	<5.	U	1	
Toluene	<5.	U	1	
1,1,1-Trichloroethane	<5.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 463
Sample: T5212
Samp. Description: PZ-2
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/10/01 Matrix: Water
Received: 11/12/01 QC Batch: 112001W1
Prepared: 11/20/01 %Solids:
Analyzed: 11/20/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<5.	U	1	
Trichloroethylene	260.		1	
Trichlorofluoromethane	<5.	U	1	
Vinyl Chloride	<5.	U	1	
Xylenes (total)	<15.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	116.%		1	76-121	
Fluorobenzene (surrogate)	100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5196
Samp. Description: SUMP
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/08/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
Benzene	<50.	U	1	
Bromodichloromethane	<50.	U	1	
Bromoform	<500.	U	1	
Bromomethane	<500.	U	1	
Carbon tetrachloride	<50.	U	1	
Chlorobenzene	<50.	U	1	
Chloroethane	<50.	U	1	
2-Chloroethylvinyl ether	<500.	U	1	
Chloroform	180.		1	
Chloromethane	<500.	U	1	
Dibromochloromethane	<50.	U	1	
1,2-Dichlorobenzene	<250.	U	1	
1,3-Dichlorobenzene	<250.	U	1	
1,4-Dichlorobenzene	<250.	U	1	
Dichlorodifluoromethane	<500.	U	1	
1,1-Dichloroethane	<50.	U	1	
1,2-Dichloroethane	<50.	U	1	
1,1-Dichloroethylene	<50.	U	1	
cis-1,2-Dichloroethylene	<50.	U	1	
trans-1,2-Dichloroethylene	<50.	U	1	
Dichloromethane	<50.	U	1	
1,2-Dichloropropane	<50.	U	1	
cis-1,3-Dichloropropylene	<50.	U	1	
trans-1,3-Dichloropropylene	<50.	U	1	
Ethylbenzene	<50.	U	1	
1,1,2,2-Tetrachloroethane	<50.	U	1	
Tetrachloroethylene	<50.	U	1	
Toluene	<50.	U	1	
1,1,1-Trichloroethane	<50.	U	1	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Inc. of North America
Project: Former Accurate Die - Fayetteville, NY
Proj. Desc:
Package#: 461
Sample: T5196
Samp. Description: SUMP
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Job No.: 3027.001.11102
Certification NY No.: 10155

Collected: 11/08/01 Matrix: Water
Received: 11/09/01 QC Batch: 111601W1
Prepared: 11/16/01 %Solids:
Analyzed: 11/16/01 Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	Notes
1,1,2-Trichloroethane	<50.	U	1	
Trichloroethylene	1500.		1	
Trichlorofluoromethane	<50.	U	1	
Vinyl Chloride	<50.	U	1	
Xylenes (total)	<150.	U	1	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	98.%		1	76-121	
Fluorobenzene (surrogate)	101.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 26, 2001 Monika Santucci

463

Client: D'ARLEN & GERE INC.						Analysis/Method										
Project: Former Accurate Facility						VOC's (8021)										
Sampled by: YURI VELIZ																
Client Contact: Al Farrel Phone # 437-6100																
Sample Description																
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers											Comments
MW-2	11-10-01	930	Water	Grab	2	X										
MW-22		1100				X										
MW-21		1200				X										
PZ-2		1300				X										
MM-17		1400				X										
MW-24		1420				X										
MW-18		1430				X										
MW-10		1500				X										
MW-9		1530				X										
Relinquished by: YURI VELIZ Date: 11-12-01 Time: 4:00						Received by: _____ Date: _____ Time: _____										
Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: _____ Time: _____										
Relinquished by: _____ Date: _____ Time: _____						Received by Lab: 26/11 Date: 11/12/01 Time: 16:00										
Shipment Method: _____						Airbill Number: _____										

Original Laboratory Copy Client

Chain of Custody

Original-Laboratory Copy-Client

Attachment # 8
CASE FILE FORM

PROGRAM INFORMATION

CLIENT: _____ DIV. _____ REF. No. _____

PROGRAM: _____

CUSTODY SEAL: _____ INTACT _____ NOT INTACT _____ NA

AFTER HOURS CUSTODY

REINQUISHED BY: _____

RECEIVED BY: _____

CLIENT: Yoss Veliz	DATE 11-9-01	TIME 8:30pm	SECURITY GUARD Dan Lopez	DATE 11-09-01	TIME 2030
GUARD TO COOLER H-07-L. Lopez	DATE 11/9/01	TIME 2040	SAMPLE CUSTODIAN	DATE	TIME

COMMENTS/DISCREPANCIES:

RESOLUTION/CLIENT COMMENT:

SIGNED: _____

DATE: _____

QA/QC APPROVAL: _____

SIGNED: Morita Sorduen

DATE: 12/4/01

END

OF

DOCUMENT