

463025

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 625

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

No.: 3027.025.517
Certification MD No.: 239


Sample: R3940
Samp. Description: Pact Influent
Instrument: HP5972A GCMS#5
Units: ug/L
Number of analytes: 63

Collected: 10/13/00
Received: 10/14/00
Prepared: 10/16/00
Matrix: Water
QC Batch: 101600W6
%Solids:
Sample Size: 1 L

Parameter	Result	Prog Limits	Dilution	Analyzed	Notes
N-Nitrosodimethylamine	<10.		1	10/18/00	
bis(2-Chloroethyl) ether	<10.		1	10/18/00	
Phenol	<10.		1	10/18/00	
2-Chlorophenol	<10.		1	10/18/00	
1,3-Dichlorobenzene	<10.		1	10/18/00	
1,4-Dichlorobenzene	32.		1	10/18/00	
1,2-Dichlorobenzene	230.		1	10/18/00	
bis(2-Chloroisopropyl) ether	<10.		1	10/18/00	
N-Nitroso-di-n-propylamine	<10.		1	10/18/00	
Hexachloroethane	<10.		1	10/18/00	
Nitrobenzene	<10.		1	10/18/00	
Isophorone	<10.		1	10/18/00	
2-Nitrophenol	<10.		1	10/18/00	
2,4-Dimethylphenol	<10.		1	10/18/00	
bis(2-Chloroethoxy)methane	<10.		1	10/18/00	
2,4-Dichlorophenol	<10.		1	10/18/00	
1,2,4-Trichlorobenzene	23.		1	10/18/00	
Naphthalene	<10.		1	10/18/00	
Hexachlorobutadiene	<10.		1	10/18/00	
4-Chloro-3-methylphenol	<10.		1	10/18/00	
Hexachlorocyclopentadiene	<10.		1	10/18/00	
2,4,6-Trichlorophenol	<10.		1	10/18/00	
2-Chloronaphthalene	<10.		1	10/18/00	
Dimethyl phthalate	<10.		1	10/18/00	
Acenaphthylene	<10.		1	10/18/00	
2,6-Dinitrotoluene	<10.		1	10/18/00	
Acenaphthene	<10.		1	10/18/00	
2,4-Dinitrophenol	<50.		1	10/18/00	
4-Nitrophenol	<50.		1	10/18/00	

B

- Outside control limits J-Estimated value

Authorized: 
Date: October 20, 2000 Thomas Alexander

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Analytical Results Method: 625

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Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

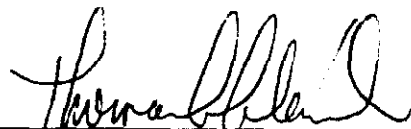
Job No.: 3027.025.517
Certification MD No.: 239

Sample: R3940
Samp. Description: Pact Influent
Instrument: HP5972A GCMS#5
Units: ug/L
Number of analytes: 63

Collected: 10/13/00
Received: 10/14/00
Prepared: 10/16/00
Matrix: Water
QC Batch: 101600W6
% Solids:
Sample Size: 1 L

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
2,4-Dinitrotoluene	<10.		1	10/18/00	
Diethyl phthalate	<10.		1	10/18/00	
Fluorene	<10.		1	10/18/00	
4-Chlorophenyl phenyl ether	<10.		1	10/18/00	
4,6-Dinitro-2-methylphenol	<50.		1	10/18/00	
N-Nitrosodiphenylamine	<10.		1	10/18/00	
1,2-Diphenylhydrazine	<10.		1	10/18/00	
4-Bromophenyl phenyl ether	<10.		1	10/18/00	
Hexachlorobenzene	<10.		1	10/18/00	
Pentachlorophenol	<50.		1	10/18/00	
Phenanthrene	<10.		1	10/18/00	
Anthracene	<10.		1	10/18/00	
Di-n-butyl phthalate	<10.		1	10/18/00	
Fluoranthene	<10.		1	10/18/00	
Benzenzidine	<50.		1	10/18/00	
Pyrene	<10.		1	10/18/00	
Butyl benzyl phthalate	<10.		1	10/18/00	
3,3'-Dichlorobenzidine	<20.		1	10/18/00	
Benzo[a]anthracene	<10.		1	10/18/00	
Chrysene	<10.		1	10/18/00	
bis(2-Ethylhexyl)phthalate	<10.		1	10/18/00	
Di-n-octyl phthalate	<10.		1	10/18/00	
Benzo[b]fluoranthene	<10.		1	10/18/00	
Benzo[k]fluoranthene	<10.		1	10/18/00	
Benzo[a]pyrene	<10.		1	10/18/00	
Indeno[1,2,3-cd]pyrene	<10.		1	10/18/00	
Dibenz[a,h]anthracene	<10.		1	10/18/00	
Benzo[g,h,i]perylene	<10.		1	10/18/00	
2-Fluorophenol (surrogate)	65.%	65-103	1	10/18/00	
Phenol-d5 (surrogate)	61.%	60-117	1	10/18/00	
2,4,6-Tribromophenol (surrogate)	90.%	60-146	1	10/18/00	

- Outside control limits J-Estimated value

Authorized: 
Date: October 20, 2000 Thomas Alexander

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 625

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

Lab No.: 9027.025.317
Certification MD No.: 239

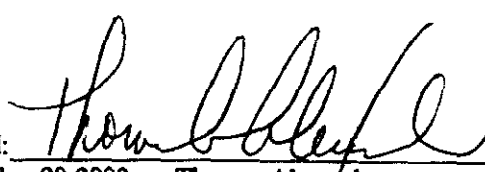
Sample: R3940
Samp. Description: Pact Influent
Instrument: HP5972A GCMS#5
Units: ug/L
Number of analytes: 63

Collected: 10/13/00 Matrix: Water
Received: 10/14/00 QC Batch: 101600W6
Prepared: 10/16/00 % Solids:
Sample Size: 1 L

Parameter	Result	Surrog Limits	Dilution	Analyzed Notes
Nitrobenzene-d5 (surrogate)	65.†	50-132	1	10/18/00
2-Fluorobiphenyl (surrogate)	63.†	45-120	1	10/18/00
Terphenyl-d14 (surrogate)	97.†	37-151	1	10/18/00

Notes:

- Outside control limits J-Estimated value

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Analytical Results Method: 625

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

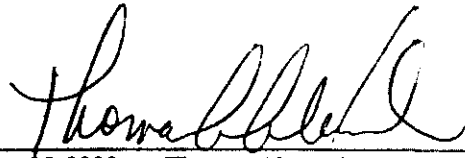
Job No.: 9027.025.517
Certification MD No.: 239

Sample: R3941
Samp. Description: Pact Effluent
Instrument: HP5972A GCMS#5
Units: ug/L
Number of analytes: 63

Collected: 10/13/00 Matrix: Water
Received: 10/14/00 QC Batch: 101600W6
Prepared: 10/16/00 %Solids:
Sample Size: 1 L

Parameter	Result	Surrog	Limits	Dilution	Analyzed	Notes
N-Nitrosodimethylamine	<10.			1	10/18/00	
bis (2-Chloroethyl) ether	<10.			1	10/18/00	
Phenol	<10.			1	10/18/00	
2-Chlorophenol	<10.			1	10/18/00	
1,3-Dichlorobenzene	<10.			1	10/18/00	
1,4-Dichlorobenzene	<10.			1	10/18/00	
1,2-Dichlorobenzene	<10.			1	10/18/00	
bis (2-Chloroisopropyl) ether	<10.			1	10/18/00	
N-Nitroso-di-n-propylamine	<10.			1	10/18/00	
Hexachloroethane	<10.			1	10/18/00	
Nitrobenzene	<10.			1	10/18/00	
Isophorone	<10.			1	10/18/00	
2-Nitrophenol	<10.			1	10/18/00	
2,4-Dimethylphenol	<10.			1	10/18/00	
bis (2-Chloroethoxy) methane	<10.			1	10/18/00	
2,4-Dichlorophenol	<10.			1	10/18/00	
1,2,4-Trichlorobenzene	<10.			1	10/18/00	
Naphthalene	<10.			1	10/18/00	
Hexachlorobutadiene	<10.			1	10/18/00	
4-Chloro-3-methylphenol	<10.			1	10/18/00	
Hexachlorocyclopentadiene	<10.			1	10/18/00	
2,4,6-Trichlorophenol	<10.			1	10/18/00	
2-Chloronaphthalene	<10.			1	10/18/00	
Dimethyl phthalate	<10.			1	10/18/00	
Acenaphthylene	<10.			1	10/18/00	
2,6-Dinitrotoluene	<10.			1	10/18/00	
Acenaphthene	<10.			1	10/18/00	
2,4-Dinitrophenol	<50.			1	10/18/00	
4-Nitrophenol	<50.			1	10/18/00	

- Outside control limits J-Estimated value

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Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

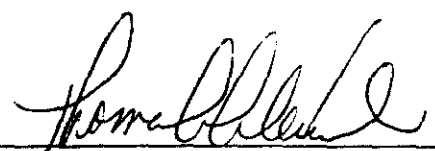
Job No.: 5027.025.317
Certification MD No.: 239

Sample: R3941
Samp. Description: Pact Effluent
Instrument: HP5972A GCMS#5
Units: ug/L
Number of analytes: 63

Collected: 10/13/00
Received: 10/14/00
Prepared: 10/16/00
Matrix: Water
QC Batch: 101600W6
%Solids:
Sample Size: 1 L

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
2,4-Dinitrotoluene	<10.		1	10/18/00	
Diethyl phthalate	<10.		1	10/18/00	
Fluorene	<10.		1	10/18/00	
4-Chlorophenyl phenyl ether	<10.		1	10/18/00	
4,6-Dinitro-2-methylphenol	<50.		1	10/18/00	
N-Nitrosodiphenylamine	<10.		1	10/18/00	
1,2-Diphenylhydrazine	<10.		1	10/18/00	
4-Bromophenyl phenyl ether	<10.		1	10/18/00	
Hexachlorobenzene	<10.		1	10/18/00	
Pentachlorophenol	<50.		1	10/18/00	
Phenanthrene	<10.		1	10/18/00	
Anthracene	<10.		1	10/18/00	
Di-n-butyl phthalate	<10.		1	10/18/00	
Fluoranthene	<10.		1	10/18/00	
Benzidine	<50.		1	10/18/00	
Pyrene	<10.		1	10/18/00	
Butyl benzyl phthalate	<10.		1	10/18/00	
3,3'-Dichlorobenzidine	<20.		1	10/18/00	
Benzo [a] anthracene	<10.		1	10/18/00	
Chrysene	<10.		1	10/18/00	
bis (2-Ethylhexyl) phthalate	<10.		1	10/18/00	
Di-n-octyl phthalate	<10.		1	10/18/00	
Benzo [b] fluoranthene	<10.		1	10/18/00	
Benzo [k] fluoranthene	<10.		1	10/18/00	
Benzo [a] pyrene	<10.		1	10/18/00	
Indeno [1, 2, 3-cd] pyrene	<10.		1	10/18/00	
Dibenz [a, h] anthracene	<10.		1	10/18/00	
Benzo [g, h, i] perylene	<10.		1	10/18/00	
2-Fluorophenol (surrogate)	55.*	# 65-103	1	10/18/00	
Phenol-d5 (surrogate)	56.*	# 60-117	1	10/18/00	
2,4,6-Tribromophenol (surrogate)	82.*	60-146	1	10/18/00	

- Outside control limits J-Estimated value

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Laboratories, Inc.**

**Analytical Results
Method: 625**

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

Job No.: 9027.025.517
Certification MD No.: 239

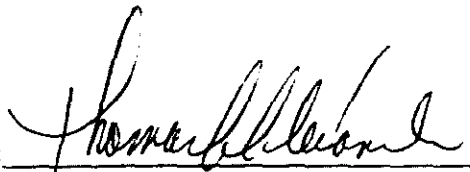
Sample: R3941
Samp. Description: Pact Effluent
Instrument: HP5972A GCMS#5
Units: ug/L
Number of analytes: 63

Collected: 10/13/00 Matrix: Water
Received: 10/14/00 OC Batch: 101600W6
Prepared: 10/16/00
Sample Size: 1 L

Parameter	Result	Surrog Limit	Dilution	Analysed Notes
Nitrobenzene-d5 (surrogate)	61.*	50-132	1	10/18/00
2-Fluorobiphenyl (surrogate)	53.*	45-120	1	10/18/00
Terphenyl-d14 (surrogate)	100.*	37-151	1	10/18/00

Notes:

- Outside control limits J-Estimated value

Authorized: 
Date: October 20, 2000 Thomas Alexander

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 625

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD


Job No.: 3027.025.517
Certification MD No.: 239

Sample: R3943
Samp. Description: Air Stripper Influent
Instrument: HP5972A GCMS#5
Units: ug/L
Number of analytes: 63

Collected: 10/13/00
Received: 10/14/00
Prepared: 10/16/00
Matrix: Water
QC Batch: 10160096
% Solids:
Sample Size: 1 L

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
N-Nitrosodimethylamine	<10.		1	10/18/00	
bis(2-Chloroethyl) ether	<10.		1	10/18/00	
Phenol	<10.		1	10/18/00	
2-Chlorophenol	<10.		1	10/18/00	
1,3-Dichlorobenzene	<10.		1	10/18/00	
1,4-Dichlorobenzene	<10.		1	10/18/00	
1,2-Dichlorobenzene	21.		1	10/18/00	
bis(2-Chloroisopropyl) ether	<10.		1	10/18/00	
N-Nitroso-di-n-propylamine	<10.		1	10/18/00	
Hexachloroethane	<10.		1	10/18/00	
Nitrobenzene	<10.		1	10/18/00	
Isophorone	<10.		1	10/18/00	
2-Nitrophenol	<10.		1	10/18/00	
2,4-Dimethylphenol	<10.		1	10/18/00	
bis(2-Chloroethoxy) methane	<10.		1	10/18/00	
2,4-Dichlorophenol	<10.		1	10/18/00	
1,2,4-Trichlorobenzene	<10.		1	10/18/00	
Naphthalene	<10.		1	10/18/00	
Hexachlorobutadiene	<10.		1	10/18/00	
4-Chloro-3-methylphenol	<10.		1	10/18/00	
Hexachlorocyclopentadiene	<10.		1	10/18/00	
2,4,6-Trichlorophenol	<10.		1	10/18/00	
2-Chloronaphthalene	<10.		1	10/18/00	
Dimethyl phthalate	<10.		1	10/18/00	
Acenaphthylene	<10.		1	10/18/00	
2,6-Dinitrotoluene	<10.		1	10/18/00	
Acenaphthene	<10.		1	10/18/00	
2,4-Dinitrophenol	<50.		1	10/18/00	
4-Nitrophenol	<50.		1	10/18/00	

- Outside control limits J-Estimated value

Authorized: 
Date: October 20, 2000 Thomas Alexander

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 625

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

Job No.: 3027.025.517
Certification MD No.: 239

Sample: R3943
Samp. Description: Air Stripper Influent
Instrument: HP5972A GCMS#5
Units: ug/L
Number of analytes: 63

Collected: 10/13/00 Matrix: Water
Received: 10/14/00 QC Batch: 101600W6
Prepared: 10/16/00 % Solids:
Sample Size: 1 L

Parameter	Result	Surrog Limits Dilution	Analyzed Notes
2,4-Dinitrotoluene	<10.		1 10/18/00
Diethyl phthalate	<10.		1 10/18/00
Fluorene	<10.		1 10/18/00
4-Chlorophenyl phenyl ether	<10.		1 10/18/00
4,6-Dinitro-2-methylphenol	<50.		1 10/18/00
N-Nitrosodiphenylamine	<10.		1 10/18/00
1,2-Diphenylhydrazine	<10.		1 10/18/00
4-Bromophenyl phenyl ether	<10.		1 10/18/00
Hexachlorobenzene	<10.		1 10/18/00
Pentachlorophenol	<50.		1 10/18/00
Phenanthrene	<10.		1 10/18/00
Anthracene	<10.		1 10/18/00
Di-n-butyl phthalate	<10.		1 10/18/00
Fluoranthene	<10.		1 10/18/00
Benzidine	<50.		1 10/18/00
Pyrene	<10.		1 10/18/00
Butyl benzyl phthalate	<10.		1 10/18/00
3,3'-Dichlorobenzidine	<20.		1 10/18/00
Benzo[a]anthracene	<10.		1 10/18/00
Chrysene	<10.		1 10/18/00
bis(2-Ethylhexyl)phthalate	<10.		1 10/18/00
Di-n-octyl phthalate	<10.		1 10/18/00
Benzo[b]fluoranthene	<10.		1 10/18/00
Benzo[k]fluoranthene	<10.		1 10/18/00
Benzo[a]pyrene	<10.		1 10/18/00
Indeno[1,2,3-cd]pyrene	<10.		1 10/18/00
Dibenz[a,h]anthracene	<10.		1 10/18/00
Benzo[g,h,i]perylene	<10.		1 10/18/00
2-Fluorophenol (surrogate)	65.*	65-103	1 10/18/00
Phenol-d5 (surrogate)	62.*	60-117	1 10/18/00
2,4,6-Tribromophenol (surrogate)	81.*	60-146	1 10/18/00

- Outside control limits J-Estimated value

Authorized: 
Date: October 20, 2000 Thomas Alexander

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Method: 625**

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

Job No.: 3027.025.517
Certification MD No.: 239

Sample: R3943
Samp. Description: Air Stripper Influent
Instrument: HP5972A GCMS#5
Units: ug/L
Number of analytes: 63

Collected: 10/13/00 Matrix: Water
Received: 10/14/00 QC Batch: 101600W6
Prepared: 10/16/00 %Solids:
Sample Size: 1 L

Parameter

Nitrobenzene-d5 (surrogate)
2-Fluorobiphenyl (surrogate)
Terphenyl-d14 (surrogate)

Result	Surrog Limits	Dilution	Analyzed Notes
68.†	50-134	1	10/18/00
68.†	45-120	1	10/18/00
96.†	37-151	1	10/18/00

Notes:

- Outside control limits J-Estimated value

Authorized: 
Date: October 20, 2000 Thomas Alexander

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 625

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD


Job No.: 3027.025.517
Certification MD No.: 239

Sample: R3942
Samp. Description: Air Stripper Effluent (Final)
Instrument: HP5972A GCMS#5
Units: ug/L
Number of analytes: 63

Collected: 10/13/00
Received: 10/14/00
Prepared: 10/16/00
Matrix: Water
QC Batch: 101600W6
% Solids:
Sample Size: 1 L

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
N-Nitrosodimethylamine	<10.		1	10/18/00	
bis(2-Chloroethyl) ether	<10.		1	10/18/00	
Phenol	<10.		1	10/18/00	
2-Chlorophenol	<10.		1	10/18/00	
1,3-Dichlorobenzene	<10.		1	10/18/00	
1,4-Dichlorobenzene	<10.		1	10/18/00	
1,2-Dichlorobenzene	19.		1	10/18/00	
bis(2-Chloroisopropyl) ether	<10.		1	10/18/00	
N-Nitroso-di-n-propylamine	<10.		1	10/18/00	
Hexachloroethane	<10.		1	10/18/00	
Nitrobenzene	<10.		1	10/18/00	
Isophorone	<10.		1	10/18/00	
2-Nitrophenol	<10.		1	10/18/00	
2,4-Dimethylphenol	<10.		1	10/18/00	
bis(2-Chloroethoxy) methane	<10.		1	10/18/00	
2,4-Dichlorophenol	<10.		1	10/18/00	
1,2,4-Trichlorobenzene	<10.		1	10/18/00	
Naphthalene	<10.		1	10/18/00	
Hexachlorobutadiene	<10.		1	10/18/00	
4-Chloro-3-methylphenol	<10.		1	10/18/00	
Hexachlorocyclopentadiene	<10.		1	10/18/00	
2,4,6-Trichlorophenol	<10.		1	10/18/00	
2-Chloronaphthalene	<10.		1	10/18/00	
Dimethyl phthalate	<10.		1	10/18/00	
Acenaphthylene	<10.		1	10/18/00	
2,6-Dinitrotoluene	<10.		1	10/18/00	
Acenaphthene	<10.		1	10/18/00	
2,4-Dinitrophenol	<50.		1	10/18/00	
4-Nitrophenol	<50.		1	10/18/00	

- Outside control limits J-Estimated value

Authorized: 
Date: October 20, 2000 Thomas Alexander

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Analytical Results Method: 625

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Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

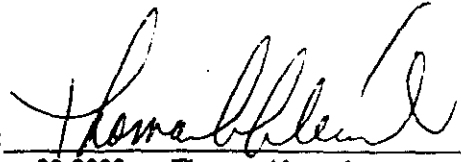
Job No.: 3027.025.517
Certification MD No.: 239

Sample: R3942
Samp. Description: Air Stripper Effluent (Final)
Instrument: HP5972A GCMS#5
Units: ug/L
Number of analytes: 63

Collected: 10/13/00 Matrix: Water
Received: 10/14/00 QC Batch: 101600W6
Prepared: 10/16/00 %Solids:
Sample Size: 1 L

Parameter	Result	Surrog Limits	Dilution	Analysed	Notes
2,4-Dinitrotoluene	<10.		1	10/18/00	
Diethyl phthalate	<10.		1	10/18/00	
Fluorene	<10.		1	10/18/00	
4-Chlorophenyl phenyl ether	<10.		1	10/18/00	
4,6-Dinitro-2-methylphenol	<50.		1	10/18/00	
N-Nitrosodiphenylamine	<10.		1	10/18/00	
1,2-Diphenylhydrazine	<10.		1	10/18/00	
4-Bromophenyl phenyl ether	<10.		1	10/18/00	
Hexachlorobenzene	<10.		1	10/18/00	
Pentachlorophenol	<50.		1	10/18/00	
Phenanthrene	<10.		1	10/18/00	
Anthracene	<10.		1	10/18/00	
Di-n-butyl phthalate	<10.		1	10/18/00	
Fluoranthene	<10.		1	10/18/00	
Benzidine	<50.		1	10/18/00	
Pyrene	<10.		1	10/18/00	
Butyl benzyl phthalate	<10.		1	10/18/00	
3,3'-Dichlorobenzidine	<20.		1	10/18/00	
Benzo[a]anthracene	<10.		1	10/18/00	
Chrysene	<10.		1	10/18/00	
bis(2-Ethylhexyl)phthalate	<10.		1	10/18/00	
Di-n-octyl phthalate	<10.		1	10/18/00	
Benzo[b]fluoranthene	<10.		1	10/18/00	
Benzo[k]fluoranthene	<10.		1	10/18/00	
Benzo[a]pyrene	<10.		1	10/18/00	
Indeno[1,2,3-cd]pyrene	<10.		1	10/18/00	
Dibenz[a,h]anthracene	<10.		1	10/18/00	
Benzo[g,h,i]perylene	<10.		1	10/18/00	
2-Fluorophenol (surrogate)	68.†	65-103	1	10/18/00	
Phenol-d5 (surrogate)	64.†	60-117	1	10/18/00	
2,4,6-Tribromophenol (surrogate)	82.†	60-146	1	10/18/00	

- Outside control limits J-Estimated value

Authorized: 
Date: October 20, 2000 Thomas Alexander

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Method: 625**

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

Job No.: 177-015-517
Certification MD No.: 239

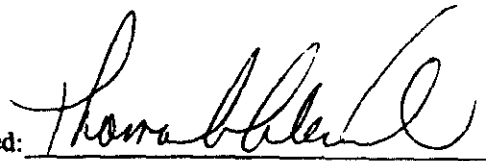
Sample: R3942
Samp. Description: Air Stripper Effluent (Final)
Instrument: HP5972A GCMS#5
Units: ug/L
Number of analytes: 63

Collected: 10/13/00 Matrix: Water
Received: 10/14/00 Container: 101600W6
Prepared: 10/16/00
Sample Size: 1 L

Parameter	Result	Surrog Limits	Dilution	Analysed Notes
Nitrobenzene-d5 (surrogate)	71.4	50-139	1	10/18/00
2-Fluorobiphenyl (surrogate)	72.4	45-120	1	10/18/00
Terphenyl-d14 (surrogate)	98.4	37-151	1	10/18/00

Notes:

- Outside control limits J-Estimated value

Authorized: 
Date: October 20, 2000 Thomas Alexander

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 624

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

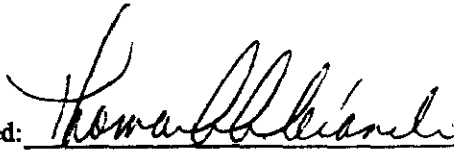
Job No.: 9027.023.317
Certification MD No.: 239

Sample: R3940
Samp. Description: Pact Influent
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 37

Collected: 10/19/00 Matrix: Water
Received: 10/14/00 GC Batch: 101800W1
Prepared: 10/19/00 Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Chloromethane	<200.		100	10/19/00	
Vinyl chloride	600.		100	10/19/00	
Bromomethane	<200.		100	10/19/00	
Chloroethane	<200.		100	10/19/00	
Trichlorofluoromethane	<100.		100	10/19/00	
1,1-Dichloroethene	<100.		100	10/19/00	
Methylene chloride	3700.		100	10/19/00	
trans-1,2-Dichloroethene	110.		100	10/19/00	
1,1-Dichloroethane	1700.		100	10/19/00	
cis-1,2-Dichloroethene	E 5900.		100	10/19/00	
Chloroform	<100.		100	10/19/00	
1,2-Dichloroethane	370.		100	10/19/00	
1,1,1-Trichloroethane	E 6200.		100	10/19/00	
Carbon tetrachloride	<100.		100	10/19/00	
Benzene	<100.		100	10/19/00	
1,2-Dichloropropane	<100.		100	10/19/00	
Trichloroethene	600.		100	10/19/00	
Bromodichloromethane	<100.		100	10/19/00	
2-Chloroethylvinyl ether	<200.		100	10/19/00	
cis-1,3-Dichloropropene	<100.		100	10/19/00	
trans-1,3-Dichloropropene	<100.		100	10/19/00	
1,1,2-Trichloroethane	<100.		100	10/19/00	
Toluene	470.		100	10/19/00	
Dibromochloromethane	<100.		100	10/19/00	
Tetrachloroethene	1000.		100	10/19/00	
Chlorobenzene	670.		100	10/19/00	
Ethylbenzene	240.		100	10/19/00	
Bromoform	<100.		100	10/19/00	
Xylene (total)	270.		100	10/19/00	

- Outside control limits J-Estimated value

Authorized: 
Date: October 19, 2000 Thomas Alexander

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Method: 624**

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

Job No.: 302700017
Certification No.: 239

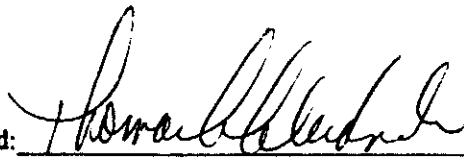
Sample: R3940
Samp. Description: Pact Influent
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 37

Collected: 10/13/00
Received: 10/14/00
Prepared: 10/19/00
Matrix: Water
OC Bottle: 101800W1
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
1,1,2,2-Tetrachloroethane	470.		100	10/19/00	
1,3-Dichlorobenzene	<100.		100	10/19/00	
1,4-Dichlorobenzene	<100.		100	10/19/00	
1,2-Dichlorobenzene	390.		100	10/19/00	
Dibromofluoromethane (surrogate)	89.†	70-131	100	10/19/00	
1,2-Dichloroethane-d4 (surrogate)	89.†	81-120	100	10/19/00	
Toluene-d8 (surrogate)	98.†	83-117	100	10/19/00	
Bromofluorobenzene (surrogate)	90.†	78-119	100	10/19/00	

Notes:

- Outside control limits J-Estimated value

Authorized: 
Date: October 19, 2000 Thomas Alexander

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 624

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

Job No.: 027-023-517
Certification MD No.: 239

Sample: R3941
Samp. Description: Pact Effluent
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 37

Collected: 10/13/00
Received: 10/14/00
Prepared: 10/19/00
Matrix: Water
Batch: 101800W1
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Chloromethane	<2.0		1	10/19/00	
Vinyl chloride	13.		1	10/19/00	
Bromomethane	<2.0		1	10/19/00	
Chloroethane	6.8		1	10/19/00	
Trichlorofluoromethane	2.1		1	10/19/00	
1,1-Dichloroethene	7.9		1	10/19/00	
Methylene chloride	14.		1	10/19/00	
trans-1,2-Dichloroethene	15.		1	10/19/00	
1,1-Dichloroethane	E 440.		1	10/19/00	
cis-1,2-Dichloroethene	E 720.		1	10/19/00	
Chloroform	8.7		1	10/19/00	
1,2-Dichloroethane	E 82.		1	10/19/00	
1,1,1-Trichloroethane	E 450.		1	10/19/00	
Carbon tetrachloride	<1.0		1	10/19/00	
Benzene	<1.0		1	10/19/00	
1,2-Dichloropropane	<1.0		1	10/19/00	
Trichloroethene	20.		1	10/19/00	
Bromodichloromethane	<1.0		1	10/19/00	
2-Chloroethylvinyl ether	<2.0		1	10/19/00	
cis-1,3-Dichloropropene	<1.0		1	10/19/00	
trans-1,3-Dichloropropene	<1.0		1	10/19/00	
1,1,2-Trichloroethane	2.0		1	10/19/00	
Toluene	<1.0		1	10/19/00	
Dibromochloromethane	<1.0		1	10/19/00	
Tetrachloroethene	2.1		1	10/19/00	
Chlorobenzene	<1.0		1	10/19/00	
Ethylbenzene	<1.0		1	10/19/00	
Bromoform	<1.0		1	10/19/00	
Xylene (total)	<1.0		1	10/19/00	

- Outside control limits J-Estimated value

Authorized: 
Date: October 19, 2000 Thomas, Alexander

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Method: 624**

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

Job No: 3027-025-117
Certification MD No.: 239


Sample: R3941
Samp. Description: Pact Effluent
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 37

Collected: 10/13/00
Received: 10/14/00
Prepared: 10/19/00
Matrix: Water
OC Batch: 101800W1
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
1,1,2,2-Tetrachloroethane	6.7			1	10/19/00
1,3-Dichlorobenzene	<1.0			1	10/19/00
1,4-Dichlorobenzene	<1.0			1	10/19/00
1,2-Dichlorobenzene	<1.0			1	10/19/00
Dibromofluoromethane (surrogate)	85.%	70-131		1	10/19/00
1,2-Dichloroethane-d4 (surrogate)	96.%	81-120		1	10/19/00
Toluene-d8 (surrogate)	99.%	83-117		1	10/19/00
Bromofluorobenzene (surrogate)	83.%	78-119		1	10/19/00

Notes:

- Outside control limits J-Estimated value

Authorized: 
Date: October 19, 2000 Thomas Alexander

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 624

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

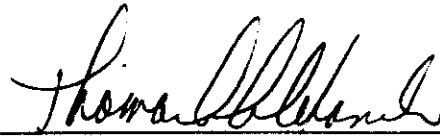
Job No.: 2001.025.517
Certification MD No.: 239

Sample: R3943
Samp. Description: Air Stripper Influent
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 37

Collected: 10/13/00
Received: 10/14/00
Prepared: 10/20/00
Matrix: Water
GC Batch: 102000W2
% Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed Notes
Chloromethane	<10.		5	10/20/00
Vinyl chloride	11.		5	10/20/00
Bromomethane	<10.		5	10/20/00
Chloroethane	<10.		5	10/20/00
Trichlorofluoromethane	<5.0		5	10/20/00
1,1-Dichloroethene	30.		5	10/20/00
Methylene chloride	13.		5	10/20/00
trans-1,2-Dichloroethene	19.		5	10/20/00
1,1-Dichloroethane	E 680.		5	10/20/00
cis-1,2-Dichloroethene	E 1400.		5	10/20/00
Chloroform	10.		5	10/20/00
1,2-Dichloroethane	140.		5	10/20/00
1,1,1-Trichloroethane	E 630.		5	10/20/00
Carbon tetrachloride	<5.0		5	10/20/00
Benzene	<5.0		5	10/20/00
1,2-Dichloropropane	<5.0		5	10/20/00
Trichloroethene	28.		5	10/20/00
Bromodichloromethane	<5.0		5	10/20/00
2-Chloroethylvinyl ether	<10.		5	10/20/00
cis-1,3-Dichloropropene	<5.0		5	10/20/00
trans-1,3-Dichloropropene	<5.0		5	10/20/00
1,1,2-Trichloroethane	<5.0		5	10/20/00
Toluene	<5.0		5	10/20/00
Dibromochloromethane	<5.0		5	10/20/00
Tetrachloroethene	<5.0		5	10/20/00
Chlorobenzene	<5.0		5	10/20/00
Ethylbenzene	<5.0		5	10/20/00
Bromoform	<5.0		5	10/20/00
Xylene (total)	<5.0		5	10/20/00

- Outside control limits J-Estimated value

Authorized: 
Date: October 20, 2000 Thomas Alexander

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 624

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

Job No. 02-003-317
Certification No. 02-003-317

Sample: R3943
Samp. Description: Air Stripper Influent
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 37

Collected: 10/13/00
Received: 10/14/00
Prepared: 10/20/00
Matrix: Water
QC Batch: 102000W2
% Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
1,1,2,2-Tetrachloroethane	<5.0		5	10/20/00	
1,3-Dichlorobenzene	<5.0		5	10/20/00	
1,4-Dichlorobenzene	<5.0		5	10/20/00	
1,2-Dichlorobenzene	<5.0		5	10/20/00	
Dibromofluoromethane (surrogate)	105.†	70-131	5	10/20/00	
1,2-Dichloroethane-d4 (surrogate)	96.†	81-120	5	10/20/00	
Toluene-d8 (surrogate)	112.†	83-117	5	10/20/00	
Bromofluorobenzene (surrogate)	101.†	78-119	5	10/20/00	

Notes:

- Outside control limits J-Estimated value

Authorized: 
Date: October 20, 2000 Thomas Alexander

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 624

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

Job No.: 902 / 925,517
Certification MD No.: 239

Sample: R3943DL
Samp. Description: Air Stripper Influent
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 37

Collected: 10/11/00
Received: 10/14/00
Prepared: 10/19/00
Matrix: Water
GC Batch: 101800W1
Purge Volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Chloromethane	<200.		100	10/19/00	
Vinyl chloride	<200.		100	10/19/00	
Bromomethane	<200.		100	10/19/00	
Chloroethane	<200.		100	10/19/00	
Trichlorofluoromethane	<100.		100	10/19/00	
1,1-Dichloroethene	<100.		100	10/19/00	
Methylene chloride	<100.		100	10/19/00	
trans-1,2-Dichloroethene	<100.		100	10/19/00	
1,1-Dichloroethane	610.		100	10/19/00	
cis-1,2-Dichloroethene	1400.		100	10/19/00	
Chloroform	<100.		100	10/19/00	
1,2-Dichloroethane	<100.		100	10/19/00	
1,1,1-Trichloroethane	670.		100	10/19/00	
Carbon tetrachloride	<100.		100	10/19/00	
Benzene	<100.		100	10/19/00	
1,2-Dichloropropane	<100.		100	10/19/00	
Trichloroethene	<100.		100	10/19/00	
Bromodichloromethane	<100.		100	10/19/00	
2-Chloroethylvinyl ether	<200.		100	10/19/00	
cis-1,3-Dichloropropene	<100.		100	10/19/00	
trans-1,3-Dichloropropene	<100.		100	10/19/00	
1,1,2-Trichloroethane	<100.		100	10/19/00	
Toluene	<100.		100	10/19/00	
Dibromochloromethane	<100.		100	10/19/00	
Tetrachloroethene	<100.		100	10/19/00	
Chlorobenzene	<100.		100	10/19/00	
Ethylbenzene	<100.		100	10/19/00	
Bromoform	<100.		100	10/19/00	
Xylene (total)	<100.		100	10/19/00	

- Outside control limits J-Estimated value

Authorized: 
Date: October 20, 2000 Thomas Alexander

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 624

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

Job No.: 2027-005-017
Certificate No.: 299

Sample: R3943DL
Samp. Description: Air Stripper Influent
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 37

Collected: 10/13/00
Received: 10/14/00
Prepared: 10/19/00
Matrix: Water
QC Batch: 101800W1
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
1,1,2,2-Tetrachloroethane	<100.		100	10/19/00	
1,3-Dichlorobenzene	<100.		100	10/19/00	
1,4-Dichlorobenzene	<100.		100	10/19/00	
1,2-Dichlorobenzene	<100.		100	10/19/00	
Dibromofluoromethane (surrogate)	88. ‡	70-131	100	10/19/00	
1,2-Dichloroethane-d4 (surrogate)	89. ‡	81-120	100	10/19/00	
Toluene-d8 (surrogate)	99. ‡	83-117	100	10/19/00	
Bromofluorobenzene (surrogate)	89. ‡	78-119	100	10/19/00	

Notes:

- Outside control limits J-Estimated value

Authorized: 
Date: October 20, 2000 Thomas Alexander

O'Brien & Gere Laboratories, Inc.

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

Sample: R3942
Samp. Description: Air Stripper Effluent (Final)
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 37


Analytical Results Method: 624

Lab No.: 101800W1
Certification ID No.: 239

Collected: 10/18/00
Received: 10/18/00
Prepared: 10/18/00
GC Vial: 101800W1
SS Vial:
Purge volume: 25 mL

Parameter	Result	Surrog	Limits	Dilution	Analyzed	Notes
Chloromethane	<2.0			1	10/18/00	
Vinyl chloride	<2.0			1	10/18/00	
Bromomethane	<2.0			1	10/18/00	
Chloroethane	<2.0			1	10/18/00	
Trichlorofluoromethane	<1.0			1	10/18/00	
1,1-Dichloroethene	1.2			1	10/18/00	
Methylene chloride	1.4			1	10/18/00	
trans-1,2-Dichloroethene	2.9			1	10/18/00	
1,1-Dichloroethane	29.			1	10/18/00	
cis-1,2-Dichloroethane	150.	E		1	10/18/00	
Chloroform	<1.0			1	10/18/00	
1,2-Dichloroethane	4.0			1	10/18/00	
1,1,1-Trichloroethane	170.	E		1	10/18/00	
Carbon tetrachloride	<1.0			1	10/18/00	
Benzene	<1.0			1	10/18/00	
1,2-Dichloropropane	<1.0			1	10/18/00	
Trichloroethene	18.			1	10/18/00	
Bromodichloromethane	<1.0			1	10/18/00	
2-Chloroethylvinyl ether	<2.0			1	10/18/00	
cis-1,3-Dichloropropene	<1.0			1	10/18/00	
trans-1,3-Dichloropropene	<1.0			1	10/18/00	
1,1,2-Trichloroethane	<1.0			1	10/18/00	
Toluene	<1.0			1	10/18/00	
Dibromochloromethane	<1.0			1	10/18/00	
Tetrachlorobethene	5.2			1	10/18/00	
Chlorobenzene	<1.0			1	10/18/00	
Ethylbenzene	<1.0			1	10/18/00	
Bromoform	<1.0			1	10/18/00	
Xylene (total)	<1.0			1	10/18/00	

- Outside control limits J-Estimated value

Authorized: 
Date: October 19, 2000 Thomas Alexander

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Method: 624**

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

Job No.: 007.025.017
Certification # 10/18/00

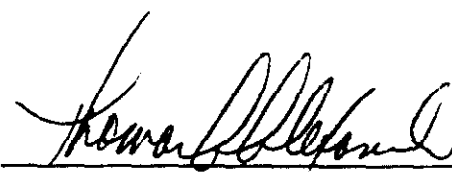
Sample: R3942
Samp. Description: Air Stripper Effluent (Final)
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 37

Collection: 10/13/00
Received: 10/14/00
Prepared: 10/18/00
GC # 10/18/00
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
1,1,2,2-Tetrachloroethane	<1.0		1	10/18/00	
1,3-Dichlorobenzene	<1.0		1	10/18/00	
1,4-Dichlorobenzene	<1.0		1	10/18/00	
1,2-Dichlorobenzene	<1.0		1	10/18/00	
Dibromofluoromethane (surrogate)	115.8	70-131	1	10/18/00	
1,2-Dichloroethane-d4 (surrogate)	120.8	81-120	1	10/18/00	
Toluene-d8 (surrogate)	81.8	# 83-117	1	10/18/00	
Bromofluorobenzene (surrogate)	67.8	# 78-119	1	10/18/00	

Notes:

- Outside control limits J-Estimated value

Authorized: 
Date: October 19, 2000 Thomas Alexander

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 624

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkton, MD

Job No. 2007-000117
Certification No. 239

Sample: R3944
Samp. Description: QC Trip Blank
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 37

Collected: 10/13/00
Received: 10/14/00
Prepared: 10/19/00
Matrix: Water
QC No.: 101800W1
Purge Volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Chloromethane	<2.0		1	10/18/00	
Vinyl chloride	<2.0		1	10/18/00	
Bromomethane	<2.0		1	10/18/00	
Chloroethane	<2.0		1	10/18/00	
Trichlorofluoromethane	<1.0		1	10/18/00	
1,1-Dichloroethene	<1.0		1	10/18/00	
Methylene chloride	1.2		1	10/18/00	
trans-1,2-Dichloroethene	<1.0		1	10/18/00	
1,1-Dichloroethane	<1.0		1	10/18/00	
cis-1,2-Dichloroethene	9.2		1	10/18/00	
Chloroform	<1.0		1	10/18/00	
1,2-Dichloroethane	<1.0		1	10/18/00	
1,1,1-Trichloroethane	<1.0		1	10/18/00	
Carbon tetrachloride	<1.0		1	10/18/00	
Benzene	<1.0		1	10/18/00	
1,2-Dichloropropane	<1.0		1	10/18/00	
Trichloroethene	1.1		1	10/18/00	
Bromodichloromethane	<1.0		1	10/18/00	
2-Chloroethylvinyl ether	<2.0		1	10/18/00	
cis-1,3-Dichloropropene	<1.0		1	10/18/00	
trans-1,3-Dichloropropene	<1.0		1	10/18/00	
1,1,2-Trichloroethane	<1.0		1	10/18/00	
Toluene	<1.0		1	10/18/00	
Dibromochloromethane	<1.0		1	10/18/00	
Tetrachloroethene	<1.0		1	10/18/00	
Chlorobenzene	<1.0		1	10/18/00	
Ethylbenzene	<1.0		1	10/18/00	
Bromoform	<1.0		1	10/18/00	
Xylene (total)	<1.0		1	10/18/00	

- Outside control limits J-Estimated value

Authorized: 
Date: October 19, 2000 Thomas Alexander

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 624

Client: O'Brien & Gere Operations
Project: Galaxy Spectron Superfund Site
Proj. Desc: Elkron, MD

Job No.: 9071-0001
Certification MD No.: 299

Sample: R3944
Samp. Description: QC Trip Blank
Instrument: HP5973 GCMS/3
Units: ug/L
Number of analytes: 37

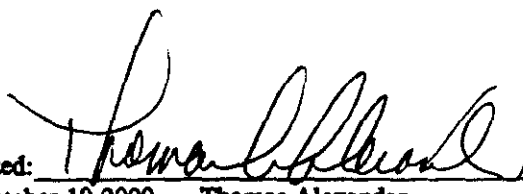
Collected: 10/13/00
Received: 10/14/00
Prepared: 10/18/00

Matrix: Water
QC Batch: 10/18/00
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed Notes
1,1,2,2-Tetrachloroethane	<1.0		1	10/18/00
1,3-Dichlorobenzene	<1.0		1	10/18/00
1,4-Dichlorobenzene	<1.0		1	10/18/00
1,2-Dichlorobenzene	<1.0		1	10/18/00
Dibromofluoromethane (surrogate)	88.4	70-131	1	10/18/00
1,2-Dichloroethane-d4 (surrogate)	92.4	81-120	1	10/18/00
Toluene-d8 (surrogate)	99.4	83-117	1	10/18/00
Bromofluorobenzene (surrogate)	89.4	78-119	1	10/18/00

Notes:

- Outside control limits J-Estimated value

Authorized: 
Date: October 19, 2000 Thomas Alexander



FAX Cover Page

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2425 New Holland Pike
Lancaster, PA 17605-2425

Phone: 717-856-2300
Fax: 717-856-2801

Deliver to: Mr. Tom Komar

Company: O BRIEN & GERE OPERATIONS

Fax: 13154637554

From: Carrie A. Fleming Ext

Message:

AR301785

Page 1

***** Lancaster Laboratories Analytical Report *****
 8425 Ben Holland Pike, Lancaster, PA 17601

Sample Number: 00036 Account: 00036 WOODS OPERATIONS
 Date Submitted: 11/14/00 Date Reported: 11/21/00
 Date Collected: 11/13/00

Pack Vent-1 Hour Room Exhaust 00036 Air Sample
 Galaxy Spectron - Etekco, MD

ANALYSIS NAME	RESULT	LIMIT OF QUANTITATION	UNITS Attached
5695 TO-14 Part 1			
7199 TO 14 WOA Extended List			
7202 Dichlorodifluoromethane	680.	54.	ug/m3
7204 Freon 114	< 76.	76.	ug/m3
7205 Chloroethane	< 22.	22.	ug/m3
7206 Vinyl Chloride	25,000.	42.	ug/m3
7208 Bromoethane	< 42.	42.	ug/m3
7209 Chloroethane	3,000.	430.	ug/m3
7212 Trichlorofluoromethane	4,500.	61.	ug/m3
7215 1,1-Dichloroethane	3,300.	43.	ug/m3
7216 Freon 113	140,000.	6,200.	ug/m3
7221 3-Chloropropene	< 34.	34.	ug/m3
7222 Methylene Chloride	21,000.	560.	ug/m3
7227 1,1-Dichloroethane	95,000.	660.	ug/m3
7230 cis-1,2-Dichloroethene	89,000.	3,200.	ug/m3
7234 Chloroform	630.	53.	ug/m3
7235 1,1,1-Trichloroethane	240,000.	4,400.	ug/m3
7236 Carbon Tetrachloride	< 60.	60.	ug/m3
7237 1,2-Dichloroethane	1,900.	44.	ug/m3
7238 Benzene	670.	39.	ug/m3
=====			
7200 TO 14 WOA Extended List cont.			
7241 Trichloroethene	5,400.	870.	ug/m3
7243 1,2-Dichloropropane	< 50.	50.	ug/m3
7248 cis-1,3-Dichloropropene	< 49.	49.	ug/m3
7250 Toluene	3,100.	61.	ug/m3
7252 trans-1,3-Dichloropropene	< 49.	49.	ug/m3
7254 1,1,2-Trichloroethene	< 99.	99.	ug/m3
7255 Tetrachloroethane	9,900.	1,100.	ug/m3
7258 1,2-Dibromoethane	< 83.	83.	ug/m3
7259 Chlorobenzene	420.	50.	ug/m3
7261 Ethylbenzene	500.	47.	ug/m3
7262 m/p-Xylene	310.	47.	ug/m3
7263 o-Xylene	110.	47.	ug/m3

AR301786

7264 Styrene < 46. 46. ug/m3
Page 2

***** Lancaster Laboratories Analytical Report *****
2625 New Holland Pike, Lancaster, PA 17601

Sample Number: A02470000 Account: 00400 D WETTER & BERE OPERATIONS INC

7267	1,1,2,2-Tetrachloroethane	< 74.	74.	ug/m3
7270	4-Ethyltoluene	< 94.	94.	ug/m3
7271	1,3,5-Trimethylbenzene	< 94.	94.	ug/m3
7273	1,2,4-Trimethylbenzene	< 94.	94.	ug/m3
7274	1,3-Dichlorobenzene	< 65.	65.	ug/m3
7275	1,4-Dichlorobenzene	< 65.	65.	ug/m3
7276	Benzyl chloride	< 56.	56.	ug/m3
7277	1,2-Dichlorobenzene	< 65.	65.	ug/m3
7279	1,2,4-Trichlorobenzene	< 88.	88.	ug/m3
7280	Hexachlorobutadiene	< 128.	128.	ug/m3

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: PACT VENT 1H Date Collected: 10/13/00 Date Received: 10/15/00
Lab Sample ID: S479396 Date Analyzed: 10/17/00 Time Analyzed: 18:04
Canister ID: SUMMA0036 Pressure Rec'd: 18.2 psia Final Pressure: 32.7 psia
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 10.8
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\OCT17\0801064.D

CAS RN	COMPOUND NAME	CONCENTRATION (ug/m3)	Q
75-71-8	Dichlorodifluoromethane	680	D
76-14-2	Freon 114	76	U
74-87-3	Chloromethane	22	U
75-01-4	Vinyl Chloride	23000	D
74-83-9	Bromomethane	42	U
75-00-3	Chloroethane	3000	D
75-69-4	Trichlorofluoromethane	4500	D
75-35-4	1,1-Dichloroethane	3300	D
76-13-1	Freon 113	140000	D
107-05-1	3-Chloropropene	34	U
75-09-2	Methylene Chloride	21000	D
75-34-3	1,1-Dichloroethane	55000	D
156-59-2	cis-1,2-Dichloroethene	89000	D
67-66-3	Chloroform	630	D
71-55-6	1,1,1-Trichloroethane	240000	D
56-23-5	Carbon Tetrachloride	60	U
107-06-2	1,2-Dichloroethane	1900	D
71-43-2	Benzene	670	D
79-01-6	Trichloroethene	5400	D
78-87-5	1,2-Dichloropropene	50	U
10061-01-5	cis-1,3-Dichloropropene	49	U
108-88-3	Toluene	3100	D
10061-02-6	trans-1,3-Dichloropropene	49	U
79-00-5	1,1,2-Trichloroethane	59	U

AR301787

127-18-4 |Tetrachloroethane

9900

D

Page 3

**** Lancaster Laboratories Analytical Report ****
 2425 New Holland Pike, Lancaster, PA 17601

Sample Number: A05477096 Account: 88490 O'Brien & Gere Operations Inc

106-98-4	1,2-Dibromoethane	83	U
108-98-7	Bis(1-chloroethane)	420	B
108-41-4	Ethylbenzene	508	B
1330-20-7	m-Xylene	318	B
99-47-6	p-Xylene	118	B
100-42-5	Styrene	46	U
79-34-5	1,1,2,2-Tetrachloroethane	74	U
622-96-8	1-Ethylcellulose	54	U
108-67-8	1,3,5-Trimethylbenzene	54	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

NOTE: Limits of quantitation were raised due to the high concentration of volatile organic compounds in this sample.

AR301788

***** Lancaster Laboratories Analytical Report *****
 2425 New Holland Pike, Lancaster, PA 17601

Sample Number: AQ3479399 Account: 88490 O BRIEN & GERE OPERATIONS INC

VOLATILE ORGANICS IN AIR
 SUMMA CANISTER SAMPLE
 ANALYSIS DATA SHEET

Sample No.: 1007 Date Collected: 10/13/00 Date Received: 10/18/00
 Lab Sample ID: 547000 Date Analyzed: 10/17/00 Time Analyzed: 10:04
 Canister ID: SUMMA6036 Pressure Rec'd: 19.2 psia Final Pressure: 30.7 psia
 Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 10.0
 Instrument ID: HP4234 Lab File ID: C:\NCP\DATA\OCT17\00\1004.D

CAS RN	COMPOUND NAME	CONCENTRATION (ug/m3)	Q
95-63-6	1,2,4-Trimethylbenzene	54	U
541-73-1	1,3-Dichlorobenzene	65	U
106-46-7	1,4-Dichlorobenzene	65	U
100-44-7	Benzyl chloride	56	U
95-50-1	1,2-Dichlorobenzene	65	U
120-82-1	1,2,4-Trichlorobenzene	58	U
87-68-3	Hexachlorobutadiene	120	U

U = Compound was undetected at the specified limit of quantitation.
 B = Compound was found in method blank. D = analysis of diluted sample.
 NOTE: Limits of quantitation were raised due to the high concentration
 of volatile organic compounds in this sample.

Sample Number: AQ3479399 Account: 88490 O BRIEN & GERE OPERATIONS INC
 Date Submitted: 10/14/00 Date Reported: 10/20/00
 Date Collected: 10/13/00

Fact Vent-18 Hour Summa Canister #0166 Air Sample
 Galaxy Spectrom - Elkton, MD

ANALYSIS NAME	RESULT	LIMIT OF QUANTITATION	UNITS
5695 TO-14 Para 1			attached
7199 TO 14 VOA Extended List			
7202 Dichlorodifluoromethane	628.	400.	ug/m3
7204 Freon 114	< 578.	578.	ug/m3
7205 Chloromethane	< 178.	170.	ug/m3
7206 Vinyl Chloride	14,000.	210.	ug/m3
7208 Bromomethane	< 318.	310.	ug/m3
7209 Chloroethane	2,208.	210.	ug/m3
7212 Trichlorofluoromethane	3,408.	460.	ug/m3

AR301789

7215 1,1-Dichloroethene 3,500. 320. ug/m3
Page 3

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pkwy, Lancaster, PA 17601

Sample Number: 00017909 Account: 80400 9 03100 8 0000 OPERATIONS THE

7216	Propanoic Acid	91,000.	4,100.	ug/m3
7221	3-Chloropropene	< 290.	290.	ug/m3
7222	Methylamine Chloride	5,900.	200.	ug/m3
7227	1,1,1-Trichloroethane	45,000.	2,200.	ug/m3
7230	cis-1,3-Dichloropropene	29,000.	2,100.	ug/m3
7234	Chloroform	< 590.	590.	ug/m3
7235	1,1,1-Trichloroethane	150,000.	2,900.	ug/m3
7236	Carbon Tetrachloride	< 510.	510.	ug/m3
7237	1,2-Dichloroethane	340.	330.	ug/m3
7238	Benzene	280.	260.	ug/m3

7200 TO 14 EPA Extended List cont.

7241	Trichloroethene	1,200.	430.	ug/m3
7243	1,2-Dichloropropene	< 300.	300.	ug/m3
7248	cis-1,3-Dichloropropene	< 370.	370.	ug/m3
7250	Toluene	1,000.	310.	ug/m3
7252	trans-1,3-Dichloropropene	< 370.	370.	ug/m3
7254	1,1,2-Trichloroethane	< 440.	440.	ug/m3
7255	Tetrachloroethene	780.	550.	ug/m3
7258	1,2-Dibromoethane	< 620.	620.	ug/m3
7259	Chlorobenzene	< 300.	300.	ug/m3
7261	Ethylbenzene	590.	360.	ug/m3
7262	m/p-Xylene	1,100.	360.	ug/m3
7263	o-Xylene	510.	360.	ug/m3
7264	Styrene	< 350.	350.	ug/m3
7267	1,1,2,2-Tetrachloroethane	< 560.	560.	ug/m3
7270	4-Ethyltoluene	< 400.	400.	ug/m3
7271	1,3,5-Trimethylbenzene	< 400.	400.	ug/m3
7273	1,2,4-Trimethylbenzene	< 400.	400.	ug/m3
7274	1,3-Dichlorobenzene	< 490.	490.	ug/m3
7275	1,4-Dichlorobenzene	< 490.	490.	ug/m3
7276	Benzyl chloride	< 420.	420.	ug/m3
7277	1,2-Dichlorobenzene	< 490.	490.	ug/m3
7279	1,2,4-Trichlorobenzene	< 600.	600.	ug/m3
7280	Hexachlorobutadiene	< 660.	660.	ug/m3

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: PACT VENT 18 Date Collected: 10/13/00 Date Received: 10/15/00
 Lab Sample ID: 3479599 Date Analyzed: 10/18/00 Time Analyzed: 05:28
 Canister ID: SUMMA0166 Pressure Rec'd: 10.3 psia Final Pressure: 31.0 psia
 Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 75.8
 Instrument ID: HP4224 Lab File ID: C:\NPCHEM\1\DATA\OCT17\2101017.D

AR301790

CAS RN | COMPOUND NAME | CONCENTRATION (ug/m3) | 0 |
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***** Lancaster Laboratories Analytical Report *****
 2425 New Holland Pike, Lancaster, PA 17601

Sample Number: A03473399 Account: 88490 O GRIM & GIBB OPERATIONS INC

79-71-8	Dichlorodifluoromethane	620	D
76-14-2	Proton 113	970	U
76-87-3	Chloroethane	170	U
75-01-4	Vinyl Chloride	14000	D
76-83-9	Bromobenzene	310	U
75-08-3	Chloroethane	2200	D
75-69-4	Trichlorofluoromethane	3400	D
75-35-4	1,1-Dichloroethane	3500	D
76-13-1	Proton 113	91000	D
107-05-1	3-Chloropropene	250	U
75-09-2	Methylene Chloride	5900	D
75-34-3	1,1-Dichloroethane	45000	D
156-59-2	cis-1,2-Dichloroethene	35000	D
67-66-3	Chloroform	390	U
71-55-6	1,1,1-Trichloroethane	150000	D
56-23-5	Carbon Tetrachloride	510	U
107-06-2	1,2-Dichloroethane	340	D
71-43-2	Benzene	280	D
79-01-6	Trichloroethene	1200	D
78-87-5	1,2-Dichloropropene	500	U
10061-01-5	cis-1,3-Dichloropropene	370	U
108-88-3	Toluene	1000	D
10061-02-6	trans-1,3-Dichloropropene	370	U
79-00-5	1,1,2-Trichloroethane	440	U
127-18-4	Tetrachloroethene	700	D
106-93-4	1,2-Dibromoethane	620	U
108-90-7	Chlorobenzene	300	U
108-41-4	Ethylbenzene	990	D
1330-20-7	m/p-Xylene	1100	D
95-47-6	o-Xylene	510	D
108-42-5	Styrene	350	U
79-34-5	1,1,2,2-Tetrachloroethane	560	U
622-96-8	4-Ethyltoluene	400	U
108-67-8	1,3,5-Trimethylbenzene	400	U

U = Compound was undetected at the specified limit of quantitation.
 B = Compound was found in method blank. D = analysis of diluted sample.
 NOTE: Limits of quantitation were raised due to the high concentration of volatile organic compounds in this sample.

AR301791

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: AQ347900 Account: 08490 O BRIEN & GERE OPERATIONS INC

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: PACT VENT 18 Date Collected: 10/13/08 Date Received: 10/15/08
Lab Sample ID: 347900 Date Analyzed: 10/16/08 Time Analyzed: 05:28
Canister ID: SLP00000 Pressure Rec'd: 19.3 psia Final Pressure: 31.0 psia
Injection Volume: 100 cc Nominal Volume: 250 cc Dilution Factor: 75.0
Instrument ID: HP4284 Lab File ID: E:\HPCHEM\1\DATA\OCT17\2101D17.D

CAS RN	COMPOUND NAME	CONCENTRATION (ug/m3)	Q
95-63-6	1,2,4-Trimethylbenzene	400	U
541-73-1	1,3-Dichlorobenzene	498	U
106-46-7	1,4-Dichlorobenzene	490	U
100-44-7	Benzyl chloride	420	U
95-50-1	1,2-Dichlorobenzene	490	U
120-82-1	1,2,4-Trichlorobenzene	600	U
87-68-3	Hexachlorobutadiene	860	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
NOTE: Limits of quantitation were raised due to the high concentration of volatile organic compounds in this sample.

Sample Number: AQ347900 Account: 08490 O BRIEN & GERE OPERATIONS INC
Date Submitted: 10/14/08 Date Reported: 10/20/08
Date Collected: 10/13/08

Air Stripper- Mr Summa Canister #0151 Air Sample
Galaxy Spectron - Elkton, MD

ANALYSIS NAME	RESULT	LIMIT OF QUANTITATION	UNITS
5695 TO-14 Form 1			attached
7199 TO 14 VOC Extended List			
7202 Dichlorodifluoromethane	< 54.	54.	ug/m3
7204 Freon 114	< 76.	76.	ug/m3
7205 Chloroethane	< 22.	22.	ug/m3
7206 Vinyl Chloride	110.	28.	ug/m3
7208 Bromomethane	< 42.	42.	ug/m3
7209 Chloroethane	60.	29.	ug/m3
7212 Trichlorofluoromethane	< 61.	61.	ug/m3

AR301792

7215 1,1-Dichloroethene 82. 43. ug/m3
Page 8

**** Lancaster Laboratories Analytical Report ****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: AQ3479400 ANALYST: J. BOYER D-DICHLOROETHANE STRIPPER 1HR

7216	Freon 113	578.	83.	ug/m3
7221	3-Chloropropene	< 34.	34.	ug/m3
7222	Methylene Chloride	136.	38.	ug/m3
7227	1,1-Dichloroethene	4,108.	2,208.	ug/m3
7230	cis-1,2-Dichloroethane	9,298.	2,108.	ug/m3
7234	Chloroform	74.	53.	ug/m3
7235	1,1,1-Trichloroethane	5,308.	59.	ug/m3
7236	Carbon Tetrachloride	< 68.	68.	ug/m3
7237	1,2-Dichloroethane	548.	44.	ug/m3
7238	Benzene	< 35.	35.	ug/m3

7200	TO 14 VOA Extended List cont.			
7241	Trichloroethene	208.	58.	ug/m3
7243	1,2-Dichloropropene	< 50.	50.	ug/m3
7248	cis-1,3-Dichloropropene	< 49.	49.	ug/m3
7250	Toluene	87.	41.	ug/m3
7252	trans-1,3-Dichloropropene	< 49.	49.	ug/m3
7254	1,1,2-Trichloroethane	< 59.	59.	ug/m3
7255	Tetrachloroethene	< 73.	73.	ug/m3
7258	1,2-Dibromoethane	< 83.	83.	ug/m3
7259	Chlorobenzene	< 58.	58.	ug/m3
7261	Ethylbenzene	< 47.	47.	ug/m3
7262	m/p-Xylene	58.	47.	ug/m3
7263	o-Xylene	< 47.	47.	ug/m3
7264	styrene	< 46.	46.	ug/m3
7267	1,1,2,2-Tetrachloroethane	< 74.	74.	ug/m3
7270	4-Ethyltoluene	< 54.	54.	ug/m3
7271	1,3,5-Trimethylbenzene	< 54.	54.	ug/m3
7273	1,2,4-Trimethylbenzene	< 54.	54.	ug/m3
7274	1,3-Dichlorobenzene	< 65.	65.	ug/m3
7275	1,4-Dichlorobenzene	< 65.	65.	ug/m3
7276	Benzyl chloride	< 56.	56.	ug/m3
7277	1,2-Dichlorobenzene	< 65.	65.	ug/m3
7279	1,2,4-Trichlorobenzene	< 88.	88.	ug/m3
7280	Hexachlorobutadiene	< 120.	120.	ug/m3

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: STRIPPER 1HR Date Collected: 10/13/00 Date Received: 10/15/00
Lab Sample ID: 3479400 Date Analyzed: 10/16/00 Time Analyzed: 20:06
Canister ID: SUMMA0151 Pressure Rec'd: 9.6 psia Final Pressure: 28.9 psia
Injection Volume: 75 cc Nominal Volume: 250 cc Dilution Factor: 10.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\OCT16\1401013.D

AR301793

CAS RN	COMPOUND NAME	CONCENTRATION (ug/m ³)	Q
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***** Lancaster Laboratories Analytical Report *****
 2425 New Holland Pike, Lancaster, PA 17601

Sample Number: 10061-01-5 Agency: 00490 O 0000 8 BERE OPERATIONS INC

73-71-8	Dichlorodifluoroethane	34	U
76-14-2	Fraen 134	76	U
74-87-3	Chloroethane	22	U
75-01-4	Vinyl Chloride	118	B
74-83-9	Bromochloroethane	42	U
75-00-3	Chloroethane	68	D
75-69-4	Trichlorofluoroethane	61	U
75-35-4	1,1-Dichloroethane	62	D
76-13-1	Fraen 133	578	D
107-05-1	3-Chloropropene	34	U
75-09-2	Methylene Chloride	188	D
75-34-3	1,1-Dichloroethane	4508	B
156-59-2	cis-1,2-Dichloroethane	9208	B
67-66-3	Chloroform	74	D
71-55-6	1,1,1-Trichloroethane	5308	D
56-23-5	Carbon Tetrachloride	68	U
107-06-2	1,2-Dichloroethane	548	D
71-43-2	Benzene	35	U
79-01-6	Trichloroethene	208	D
78-87-5	1,2-Dichloropropane	58	U
10061-01-5	cis-1,3-Dichloropropane	49	U
108-88-3	Toluene	87	D
10061-02-6	trans-1,3-Dichloropropane	49	U
79-00-5	1,1,2-Trichloroethane	59	U
127-18-4	Tetrachloroethene	73	U
106-93-4	1,2-Dibromoethane	83	U
108-90-7	Chlorobenzene	58	U
108-41-4	Ethylbenzene	47	U
1330-20-7	m/p-Xylene	58	D
95-47-6	o-Xylene	47	U
108-42-5	Styrene	46	U
79-34-5	1,1,2,2-Tetrachloroethane	74	U
622-96-8	4-Ethyltoluene	54	U
108-67-8	1,3,5-Trimethylbenzene	34	U

U = Compound was undetected at the specified limit of quantitation.
 B = Compound was found in method blank. D = analysis of diluted sample.
 NOTE: Limits of quantitation were raised due to the high concentration
 of volatile organic compounds in this sample.

AR301794

**** Lancaster Laboratories Analytical Report ****
 2425 New Holland Pike, Lancaster, PA 17601

Sample Number: AQ3479480 Account: 88490 O BRIEN & GENE OPERATIONS INC

VOLEATILE ORGANICS IN AIR
 FROM CARTRIDGE SAMPLE
 ANALYSIS DATA ONLY

Sample No.: STRIPPER 10R Date Collected: 10/13/00 Date Received: 10/19/00
 Lab Sample ID: 3479480 Date Analyzed: 10/14/00 Time Analyzed: 20:06
 Canister ID: SURVOR10 Pressure (psi): 9.4 psi Temperature: 20.9 psi
 Injection Volume: 75 µl Initial Volume: 200 µl Dilution Factor: 10.8
 Instrument ID: HP4234 Lab File ID: C:\MSDCHEM\11507\OCT16\1401015.D

CAS RN	COMPOUND NAME	CONCENTRATION (ug/m3)	Q
95-63-6	1,2,3-Trichlorobenzene	54	U
541-73-1	1,3-Dichlorobenzene	65	U
106-46-7	1,4-Dichlorobenzene	65	U
108-44-7	Benzyl chloride	56	U
95-50-1	1,2-Dichlorobenzene	65	U
120-82-1	1,2,4-Trichlorobenzene	88	U
87-68-3	Hexachlorobutadiene	120	U

U = Compound was undetected at the specified limit of quantitation.
 B = Compound was found in method blank. D = analysis of diluted sample.
 NOTE: Limits of quantitation were raised due to the high concentration of volatile organic compounds in this sample.

Sample Number: AQ3479481 Account: 88490 O BRIEN & GENE OPERATIONS INC
 Date Submitted: 10/14/00 Date Reported: 10/26/00
 Date Collected: 10/13/00

Air Stripper-10Hr Summa Canister #0049 Air Sample
 Galaxy Spectron - Elkton, MD

ANALYSIS NAME	RESULT	LIMIT OF QUANTITATION	UNITS
5695 TO-14 Form 1			attached
7199 TO 14 VOA Extended List			
7202 Dichlorodifluoromethane	< 278.	278.	ug/m3
7204 Freon 114	< 300.	300.	ug/m3
7205 Chloromethane	< 118.	118.	ug/m3
7206 Vinyl Chloride	< 140.	140.	ug/m3
7208 Bromomethane	< 210.	210.	ug/m3
7209 Chloroethane	< 148.	148.	ug/m3
7212 Trichlorofluoromethane	< 300.	300.	ug/m3

7215 1,1-Dichloroethane < 210. 210. ug/m3
Page 11

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: 3479401 Amount: 80490 g BR100 2 1000 10000 100

7216	Freon 113	< 470.	470.	ug/m3
7221	3-Chloropropene	< 170.	170.	ug/m3
7222	Methylam chloride	< 190.	190.	ug/m3
7227	1,1-Dichloroethane	< 210.	210.	ug/m3
7238	cis-1,3-Dichloropropene	< 250.	250.	ug/m3
7239	Chlorobenzene	< 230.	230.	ug/m3
7235	1,1,1-Trichloroethane	< 290.	290.	ug/m3
7236	Carbon tetrachloride	< 340.	340.	ug/m3
7237	1,2-Dichloroethane	< 320.	220.	ug/m3
7230	Benzene	< 170.	170.	ug/m3

7200 TO 14 MCA Extended List cont.

7241	Trichloroethylene	< 290.	290.	ug/m3
7243	1,2-Dichloropropene	< 250.	250.	ug/m3
7248	cis-1,3-Dichloropropene	< 250.	250.	ug/m3
7250	Toluene	< 210.	210.	ug/m3
7252	trans-1,3-Dichloropropene	< 250.	250.	ug/m3
7254	1,1,2-Trichloroethane	< 290.	290.	ug/m3
7255	Tetrachloroethane	< 370.	370.	ug/m3
7258	1,2-Dibromoethane	< 410.	410.	ug/m3
7259	Chlorobenzene	< 230.	230.	ug/m3
7261	Ethylbenzene	< 240.	240.	ug/m3
7262	m/p-Xylene	< 240.	240.	ug/m3
7263	o-Xylene	< 240.	240.	ug/m3
7264	Styrene	< 230.	230.	ug/m3
7267	1,1,2,2-Tetrachloroethane	< 370.	370.	ug/m3
7270	4-Ethyltoluene	< 270.	270.	ug/m3
7271	1,3,5-Trimethylbenzene	< 270.	270.	ug/m3
7273	1,2,4-Trimethylbenzene	< 270.	270.	ug/m3
7274	1,3-Dichlorobenzene	< 330.	330.	ug/m3
7275	1,4-Dichlorobenzene	< 330.	330.	ug/m3
7276	Benzyl chloride	< 280.	280.	ug/m3
7277	1,2-Dichlorobenzene	< 330.	330.	ug/m3
7279	1,2,4-Trichlorobenzene	< 400.	400.	ug/m3
7280	Hexachlorobutadiene	< 500.	500.	ug/m3

VOLATILE ORGANICS IN AIR
SUNNA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: STRIPPER 100 Date Collected: 10/13/00 Date Received: 10/15/00
Lab Sample ID: 3479401 Date Analyzed: 10/16/00 Time Analyzed: 22:29
Canister ID: SUNNA0049 Pressure Rec'd: 10.3 psia Final Pressure: 31.0 psia
Injection Volume: 750 cc Nominal Volume: 250 cc Dilution Factor: 50.0
Instrument ID: HP4224 Lab File ID: C:\VPCHEM\1\DATA\OCT16\1701002.D

AR301796

**** Lancaster Laboratories Analytical Report ****
 2625 New Holland Pike, Lancaster, PA 17681

Sample Number: AR301798 Client: 88490 O Brien OPERATIONS INC

VOLEATILE ORGANICS IN A
 CANISTER SAMPLE
 ANALYSIS DATA SHEET

Sample No.: STRIPPER 100 Date Collected: 10/13/00 Date Received: 10/15/00
 Lab Sample ID: 347945 Date Analyzed: 10/16/00 Time Analyzed: 22:29
 Canister ID: 88996009 Pressure Rec'd: 18.3 psi Pinel Pressure: 31.8 psi
 Injection Volume: 100 µl Inlet Volume: 250 µl Dilution Factor: 50.0
 Instrument ID: 80420 Lab File ID: C:\MPCHEM\DATA\OCT16\1791002.D

CAS RN	COMPOUND NAME	CONCENTRATION (ug/m3)	Q
95-63-6	1,2,4-Trichlorobenzene	278	U
541-73-1	1,3-Dichlorobenzene	338	U
106-46-7	1,4-Dichlorobenzene	338	U
108-44-7	benzyl chloride	288	U
95-50-1	1,2-Dichlorobenzene	338	U
128-82-1	1,2,4-Trichlorobenzene	400	U
87-68-3	Hexachlorobutadiene	588	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

NOTE: Limits of quantitation were raised due to the high concentration of volatile organic compounds in this sample.

AR301798



O'BRIEN & GERE
ENGINEERS, INC.

October 25, 2000

Tim Jones
Maverick Construction Management Services, Inc.
901 Parkview Dr. #A412
King of Prussia, PA 19406

Re: Galaxy/Spectron Air Stripper
Startup Sampling

File: 2488/24424 #2

Dear Tim:

In accordance with the air stripper startup sampling program, please find enclosed the analytical data for the water and air samples collected during the first of four events on 10/13/00. The following laboratory reports are enclosed:

Water

VOCs	PACT Influent	Sample No. R3940	Dilution - 100
VOCs	PACT Effluent	Sample No. R3941	Dilution - 1
VOCs	Air Stripper Influent	Sample No. R3943	Dilution - 5
VOCs	Air Stripper Influent	Sample No. R3943DL	Dilution - 100
VOCs	Air Stripper Effluent	Sample No. R3942	Dilution - 1
VOCs	QC Trip Blank	Sample No. R3944	Dilution - 1
SVOCs	PACT Influent	Sample No. R3940	Dilution - 1
SVOCs	PACT Effluent	Sample No. R3941	Dilution - 1
SVOCs	Air Stripper Influent	Sample No. R3943	Dilution - 1
SVOCs	Air Stripper Effluent	Sample No. R3942	Dilution - 1

Air

TO-14	PACT Vent-1 Hour	Sample No. AQ3479398
TO-14	PACT Vent-18 Hour	Sample No. AQ3479399
TO-14	Air Stripper-1 Hour	Sample No. AQ3479400
TO-14	Air Stripper-18 Hour	Sample No. AQ3479401

Relative to VOC water analyses, the PACT system is showing total influent and effluent VOCs of 21.690 ppm and 1.790 ppm, respectively. This indicates a removal efficiency of approximately 91.75% across the units. The air stripper influent and effluent total VOC concentrations of 2.961 and 0.386.3 ppm, respectively, indicate a removal efficiency of 86.95% across the air stripper. We also



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

AR301799

Tim Jones
October 25, 2000
Page 2

did not achieve the 0.100 ppm target discharge criteria for total VOCs. This is likely due to the presence of carbon in the air stripper. As you are aware, carbon was detected in the air stripper equalization tank and in the air stripper last week. We shut the system down from 10:30 A.M. October 19 until Noon October 22 for cleaning of these components. This carbon problem will be discussed in a separate communication.

Relative to SVOC water analyses, the PACT influent total SVOC concentration of 0.285 ppm (no dilution) is consistent with the range of 0.045 ppm to 0.470 ppm influent SVOC concentrations found in the influent on 12 other occasions since startup. The influent SVOC level was below analytical detection limits (BDL) on a thirteenth occasion. The PACT effluent total SVOC concentrations were BDL with no sample dilution. The air stripper influent showed 0.021 ppm, whereas the air stripper effluent showed 0.019 ppm. Once again these samples were run undiluted. As was observed during the 90-day initial start-up period, the SVOC effluent concentrations fell within the previously reported values of BDL to 0.098 ppm, and analyses of SVOCs was discontinued due to these reduced values. The current round of data continues to suggest that SVOCs are not a concern and that continued acquisition of SVOC analytical data is not providing added value.

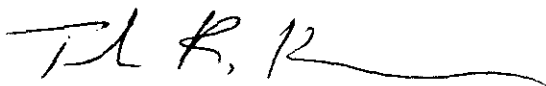
The TO-14 analytical results are also provided for your review. As discussed in our September 27, 2000 letter to Randy Sturgeon, after reviewing the results from the fourth round of sampling, the results will be compared to the emission limits established by the Codified Maryland Regulations (COMARs). A screening model evaluation will be provided using the results of the sampling events to assess potential receptor exposures, if any, to a dispersed emissions plume, and a summary letter report presenting the findings will be prepared for submission to USEPA.

As discussed with Randy Sturgeon at the site on October 23, USEPA and O'Brien & Gere recommends collecting the second round of samples until after the system has had time to stabilize following the October 19 - 22 shutdown. O'Brien & Gere intends to collect the second round of samples once the carbon mixed liquor and biomass in both reactors are re-established to pre-shutdown levels.

If you should you have any questions or comments in these regards, please give me a call.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.



Thomas R. Komar, P.E.
Technical Associate

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cc: BE White - OGNA
Ken Jones - OGNA
M Traister - O'Brien & Gere Engineers, Inc.
AL Farrell - O'Brien & Gere Engineers, Inc.

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