

EPS  
MONTHLY REPORTS

Report.hw.130050.2004-08-20.EPS Monthly Report2002-2004.pdf

FRANKLIN-EPB  
SITE MEETINGS/MTGS

Plant

8/20/04  
eter

Franklin Onsite Conference Call

Dale Brane  
Frank DeVita  
me

Air purge will be shut off Aug 20<sup>th</sup>  
Results in a little over a month.

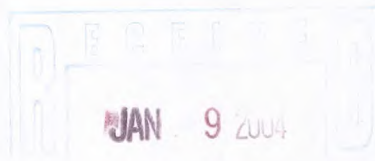




**Dvirka  
and  
Bartilucci**

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net



edor

January 6, 2004

**Principals**

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

**Senior Associates**

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

**Associates**

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Dale Braue, Project Manager  
Environmental Products & Services, Inc.  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Initial Operating Period SVE Progress Monitoring Report  
Reporting Period – September 9, 2003 through September 18, 2003  
D&B No. 1851-03

Dear Mr. Braue:

We have reviewed the Initial Operating Period SVE Progress Monitoring Report for the period of September 9, 2003 through September 18, 2003, with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

**Item 1: Field Report**

1. In accordance with Section 00007, Table 7.2 of the Standard Specifications, the airflow observed at each required monitoring point should be recorded in standard cubic feet per minute (SCFM) and actual cubic feet per minute (ACFM) for each Progress Monitoring Event during the Initial Operating Period. The referenced submittal did not provide the flow rate at each required monitoring point in ACFM. Please modify accordingly.
2. In accordance with Section 00007(4.3)(B) of the Standard Specifications, the concentration of volatile organic compounds (VOCs) at the outlet of each primary and secondary vapor phase carbon adsorption vessel shall be provided for each Progress Monitoring Event during the Initial Operating Period. The referenced submittal did not provide the concentration of VOCs at the outlet of carbon adsorption vessel No. 2 (CV-2). The total VOC flow rate should also be provided at the outlet of CV-2. Please modify accordingly.



# Dvirka and Bartilucci

CONSULTING ENGINEERS

Dale Braue, Project Manager  
Environmental Products & Services, Inc.  
January 6, 2004

Page Two

**Item 6: Hourly Average, Daily, and Cumulative Flow Extracted from each Soil Vapor Extraction Well and Discharged to each Carbon Adsorption Vessel**

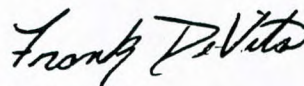
1. The cumulative airflows provided for SVE-1, SVE-2, CV-1 Inlet and CV-1 Outlet on September 8, 2003, do not correspond with the values established during the SVE Performance Test. Please review and modify accordingly.

**Item 7: Estimated Mass of each Individual Volatile Organic Compound discharged to each Carbon Adsorption Vessel**

1. The cumulative VOC mass provided for SVE-1, SVE-2, CV-1 Inlet and CV-1 Outlet on September 8, 2003, does not correspond with the values established during the SVE Performance Test. Please review and modify accordingly.
2. The cumulative VOC mass calculated at each of the SVE wells, as well as at the inlet and outlet of each carbon vessel, are incorrect. Using SVE-1 as an example, it appears that the VOC mass-loading rate (lbs/day) calculated for September 18, 2003, was added to the cumulative VOC mass as of September 8, 2003. The VOC mass-loading rate should be multiplied by the number of days in the period (September 9, 2003 through September 18, 2003) and then added to the cumulative VOC mass as of September 8, 2003. Please review all calculations and modify accordingly.

We request that EP&S resubmit the required information in a revised submittal to this office no later than January 10, 2003. Please call me if you have any questions.

Very truly yours,



Frank DeVita  
Project Manager

FDt/ld

cc: J. Trad, NYSDEC  
T. Maher, D&B  
R. Heling, D&B  
M. Wright, D&B  
S. Tauss, D&B

♦1851\FD04LTR-18.DOC





**Dvirka  
and  
Bartilucci**

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

JAN 20 2004

January 13, 2004

**Principals**

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

**Senior Associates**

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

**Associates**

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioralisio, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Initial Operating Period SVE Progress Monitoring Report (Revised)  
Reporting Period – September 9, 2003 through September 18, 2003  
D&B No. 1851-03

Dear Mr. Braue:

We have received the revised Initial Operating Period SVE Progress Monitoring Report, received in our office on January 9, 2004, for the period of September 9, 2003 through September 18, 2003. We have reviewed the submittal with respect to the requirements of the Standard Specifications for the above-referenced project. At this time we have no further comments.

Please do not hesitate to contact me at (516) 364-9890 if you have any questions.

Very truly yours,

Frank De Vita  
Project Manager

FDt/jmy

cc: J. Trad, NYSDEC  
T. Maher, D&B  
R. Heling, D&B  
M. Wright, D&B  
S. Tauss, D&B

♦1851\FD03(b)\ltr.doc-91

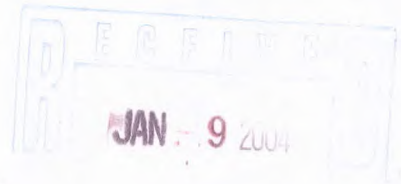




# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net



January 6, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
President

Henry J. Chlupsa, P.E.  
Executive Vice President

Thomas F. Maher, P.E.  
Vice President

Robert T. Burns, P.E.  
Vice President

Richard M. Walka  
Vice President

Steven A. Fangmann, P.E.  
Vice President

Theodore S. Pytlar, Jr.  
Vice President

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Dale Braue, Project Manager  
Environmental Products & Services, Inc.  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Initial Operating Period SVE Progress Monitoring Report  
Reporting Period – September 19, 2003 through September 24, 2003  
D&B No. 1851-03

Dear Mr. Braue:

We have reviewed the Initial Operating Period SVE Progress Monitoring Report for the period of September 19, 2003 through September 24, 2003, with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

### Item 1: Field Reports

1. In accordance with Section 00007, Table 7.2 of the Standard Specifications, the airflow observed at each required monitoring point should be recorded in standard cubic feet per minute (SCFM) and actual cubic feet per minute (ACFM) for each Progress Monitoring Event during the Initial Operating Period. The referenced submittal did not provide the flow rate at each required monitoring point in ACFM. Please modify accordingly.
2. In accordance with Section 00007(4.3)(B) of the Standard Specifications, the concentration of volatile organic compounds (VOCs) at the outlet of each primary and secondary vapor phase carbon adsorption vessels shall be provided for each Progress Monitoring Event during the Initial Operating Period. The referenced submittal did not provide the concentration of VOCs at the outlet of carbon adsorption vessel No. 2 (CV-2). The total VOC flow rate should also be provided at the outlet of CV-2. Please modify accordingly.



Dale Braue, Project Manager  
Environmental Products & Services, Inc.  
January 6, 2004

Page Two

**Item 3: SVE Blower Total Run-Time**

1. While the referenced submittal indicates a reporting period of September 19, 2003, through September 24, 2003, daily and cumulative run times were also provided for September 25, 2003. Please modify the referenced submittal to exclude all references to data collected on September 25, 2003, as it does not pertain to this reporting period.

**Item 6: Hourly Average, Daily, and Cumulative Flow Extracted from each Soil Vapor Extraction Well and Discharged to each Carbon Adsorption Vessel**

1. The cumulative airflows provided for SVE-1, SVE-2, CV-1 Inlet and CV-1 Outlet on September 8, 2003, do not correspond with the values established during the SVE Performance Test. Please review and modify accordingly.
2. The hourly average flow totals provided for each point do not appear to be correct. It appears that the cumulative run-time as of September 8, 2003, was used to calculate each hourly average, in lieu of the cumulative run-time as of September 18, 2003. Please review and modify accordingly.
3. While the referenced submittal indicates a reporting period of September 19, 2003 through September 24, 2003, cumulative flows were also provided for September 25, 2003. Please modify the referenced submittal to exclude all references to data collected on September 25, 2003, as it does not pertain to this reporting period.

**Item 7: Estimated Mass of each Individual Volatile Organic Compound discharged to each Carbon Adsorption Vessel**

1. The VOC mass loading rate calculated for SVE-1, SVE-2, CV-1 Inlet and CV-1 Outlet on September 24, 2003, appear to be incorrect. For instance, based on the data provided within the referenced submittal, we calculated the VOC mass-loading rate for SVE-1 on September 24, 2003 to be 0.00186 pounds per day, not 0.00537 pound per day. Please review and modify accordingly.
2. The cumulative VOC mass calculated at each of the SVE wells, as well as at the inlet and outlet of each carbon vessel, are incorrect. It appears that the cumulative VOC mass calculated for September 18, 2003, was carried over into September 24, 2004. The VOC mass-loading rate (lbs/day) calculated for September 24, 2003, should be multiplied by the number of days in the period (September 18, 2003 through September 24, 2003) and then added to the cumulative VOC mass as of September 18, 2003. Please review all calculations and modify accordingly.



Dale Braue, Project Manager  
Environmental Products & Services, Inc.  
January 6, 2004

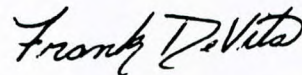
Page Three

**Item 8: Soil Vapor Extraction Well Run-Time**

1. While the referenced submittal indicates a reporting period of September 19, 2003 through September 24, 2003, daily and cumulative runtimes were also provided for September 25, 2003. Please modify the referenced submittal to exclude all references to data collected on September 25, 2003, as it does not pertain to this reporting period.

We request that EP&S resubmit the required information in a revised submittal to this office no later than January 10, 2003. Please call me if you have any questions.

Very truly yours,



Frank DeVita  
Project Manager

FDt/lid

cc: J. Trad, NYSDEC  
T. Maher, D&B  
R. Heling, D&B  
M. Wright, D&B  
S. Tauss, D&B

♦1851\FD04LTR-15.DOC



# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

January 27, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chiupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioralisio, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Dale Braue  
Project Manager  
Environmental Products & Services, Inc.  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Initial Operating Period SVE Progress Monitoring Report (Revised)  
Reporting Period – September 19, 2003 through September 24, 2003  
D&B No. 1851-03

Dear Mr. Braue:

We have reviewed the revised Initial Operating Period SVE Progress Monitoring Report for the period of September 19 through September 24, 2003, with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

### Item 1: Field Reports

1. In accordance with Section 00007, Table 7.2 of the Standard Specifications, the airflow observed at each required monitoring point should be recorded in standard cubic feet per minute (scfm) and actual cubic feet per minute (acfm) for each Progress Monitoring Event during the Initial Operating Period. While the referenced submittal provided flow rates in scfm and acfm, the acfm flow rates recorded on September 24, 2003, appear to be incorrect. Refer below for the results of acfm conversions performed by this office, using the field data provided within the referenced submittal:



Dale Braue  
Project Manager  
Environmental Products & Services, Inc.  
January 27, 2004

Page Two

Date: 9/24/03	SVE-1	SVE-2	Vessel No. 1 Inlet	Vessel No. 1 Outlet	Vessel No. 2 Outlet
Temperature (°F)	75	76	95	91	90
Pressure (in. W.C.)	-4.9	-8.3	10	4	0
Flow (scfm)	30	75	90	74	110
Flow (acfm)	31.24	78.92	93.75	77.65	116.35

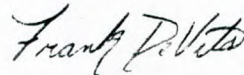
Please review all calculations and modify records accordingly.

**Item 2: SVE Blower Run Time Total**

1. We acknowledge the procedures taken to calculate the cumulative run time of the SVE blower. However, future readings taken from the SVE blower hour meter should be provided with the actual time recorded to accurately monitor the progress of the SVE System.

Please do not hesitate to contact me at (516) 364-9890 should you have any questions.

Very truly yours,



Frank DeVita  
Project Manager

FD(t)/RKH/ajm

cc: J. Trad, NYSDEC  
T. Maher, D&B  
R. Heling, D&B  
M. Wright, D&B  
S. Tauss, D&B

◆1851\FD04LTR-25.doc(R04)

JAN 30 2004

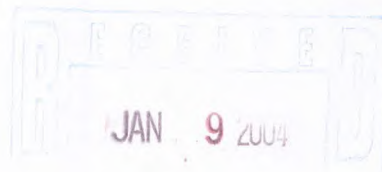




# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net



January 6, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Dale Braue, Project Manager  
Environmental Products & Services, Inc.  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Initial Operating Period SVE Progress Monitoring Report  
Reporting Period – September 25, 2003 through October 2, 2003  
D&B No. 1851-03

Dear Mr. Braue:

We have reviewed the Initial Operating Period SVE Progress Monitoring Report for the period of September 25, 2003 through October 2, 2003, with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

### Item 1: Field Report

1. In accordance with Section 00007, Table 7.2 of the Standard Specifications, the airflow observed at each required monitoring point should be recorded in standard cubic feet per minute (SCFM) and actual cubic feet per minute (ACFM) for each Progress Monitoring Event during the Initial Operating Period. The referenced submittal did not provide the flow rate at each required monitoring point in ACFM. Please modify accordingly.
2. In accordance with Section 00007(4.3)(B) of the Standard Specifications, the concentration of volatile organic compounds (VOCs) at the outlet of each primary and secondary vapor phase carbon adsorption vessels shall be provided for each Progress Monitoring Event during the Initial Operating Period. The referenced submittal did not provide the concentration of VOCs at the outlet of carbon adsorption vessel No. 2 (CV-2). The total VOC flow rate should also be provided at the outlet of CV-2. Please modify accordingly.

### Item 3: SVE Blower Total Run-Time

1. The SVE Blower cumulative run-time provided for September 24, 2003, does not correlate with the cumulative run-time reported within the previously submitted Progress Monitoring Report for the period of September 19, 2003 through September 24, 2003. Please review and modify all records accordingly.



## Dvirka and Bartilucci

CONSULTING ENGINEERS

Dale Braue, Project Manager  
Environmental Products & Services, Inc.  
January 6, 2004

Page Two

### Item 6: Hourly Average, Daily, and Cumulative Flow Extracted from each Soil Vapor Extraction Well and Discharged to each Carbon Adsorption Vessel

1. The cumulative airflows provided for SVE-1, SVE-2, CV-1 inlet and CV-1 outlet on September 24, 2003, do not correlate with the cumulative airflows reported within the previously submitted Progress Monitoring Report for the period of September 19, 2003 through September 24, 2003. Please review and modify all records accordingly.

### Item 7: Estimated Mass of each Individual Volatile Organic Compound discharged to each Carbon Adsorption Vessel

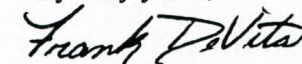
1. The mass loading rate calculated for SVE-1, SVE-2, CV-1 Inlet and CV-1 Outlet on September 24 2003 and October 2, 2003, appear to be incorrect. For instance, based on the data provided within the referenced submittal, we calculated the mass-loading rate for SVE-1 on October 2, 2003, to be 0.00352 pounds per day, not 0.00186485 pounds per day. Please review and modify accordingly.
2. Upon review, the cumulative mass calculated at each of the SVE wells, as well as at the inlet and outlet of each carbon vessel, appear to be incorrect. Using SVE-1 as an example, it appears that the VOC mass-loading rate (lbs/day) calculated for October 2, 2003, was doubled and then added to the cumulative VOC mass as of September 24, 2003. The VOC mass-loading rate should be multiplied by the number of days in the period (September 25, 2003 through October 2, 2003) and then added to the cumulative VOC mass as of September 24, 2003. Please review all calculations and modify accordingly.

### Item 8: Soil Vapor Extraction Well Run-Time

1. The cumulative run-times provided for SVE-1 and SVE-2 on September 24, 2003, do not correlate with the cumulative run-time reported within the previously submitted Progress Monitoring Report for the period of September 19, 2003 through September 24, 2003. Please review and modify all records accordingly.

We request that EP&S resubmit the required information in a revised submittal to this office no later than January 10, 2003. Please call me if you have any questions.

Very truly yours,



Frank DeVita  
Project Manager

FDt/ld

cc: J. Trad, NYSDEC  
T. Maher, D&B  
R. Heling, D&B  
M. Wright, D&B  
S. Tauss, D&B

♦1851\FD04LTR-13.DOC





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

January 27, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioralisio, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Dale Braue  
Project Manager  
Environmental Products & Services, Inc.  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Initial Operating Period SVE Progress Monitoring Report (Revised)  
Reporting Period – September 25, 2003 through October 2, 2003  
D&B No. 1851-03

Dear Mr. Braue:

We have reviewed the revised Initial Operating Period SVE Progress Monitoring Report for the period of September 25 through October 2, 2003, with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

### Item 1: Field Reports

1. In accordance with Section 00007, Table 7.2 of the Standard Specifications, the airflow observed at each required monitoring point should be recorded in standard cubic feet per minute (scfm) and actual cubic feet per minute (acfm) for each Progress Monitoring Event during the Initial Operating Period. While the referenced submittal provided flow rates in scfm and acfm, the acfm flow rates recorded on October 2, 2003, appear to be incorrect. Refer below for the results of acfm conversions performed by this office, using the field data provided within the referenced submittal:



Dale Braue  
Project Manager  
Environmental Products & Services, Inc.  
January 27, 2004

Page Two

Date: 10/2/03	SVE-1	SVE-2	Vessel No. 1 Inlet	Vessel No. 1 Outlet	Vessel No. 2 Outlet
Temperature (°F)	72	71	89	85	80
Pressure (in. W.C.)	-2.4	-8.7	10	5	0
Flow (scfm)	30	60	90	95	95
Flow (acfm)	30.87	62.61	92.74	98.36	98.65

Please review all calculations and modify records accordingly.

**Item 2: SVE Blower Run Time Total**

1. Please note, future readings taken from the SVE blower hour meter should be provided with the actual time recorded to accurately monitor the progress of the SVE System.

**Item 6: Hourly Average, Daily, and Cumulative Flow Extracted from each Soil Vapor Extraction Well and Discharged to each Carbon Adsorption Vessel**

1. The cumulative airflow provided for SVE-1 on September 25, 2003, appears to be incorrect. Assuming that there was no system downtime on September 25, 2003, the cumulative flow at SVE-1 should be 1,733,760 cubic feet, not 1,750,500 cubic feet. Please review and modify all records accordingly.

Please do not hesitate to contact me at (516) 364-9890 should you have any questions.

Very truly yours,



Frank DeVita  
Project Manager

FD(t)/RKH/ajm,ld

cc: J. Trad, NYSDEC

T. Maher, D&B

R. Heling, D&B

M. Wright, D&B

S. Tauss, D&B

♦1851\FD04LTR-27.doc(R02)

JAN 30 2004





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

January 6, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walika  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Dale Braue, Project Manager  
Environmental Products & Services, Inc.  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Initial Operating Period SVE Progress Monitoring Report  
Reporting Period – October 3, 2003 through October 8, 2003  
D&B No. 1851-03

Dear Mr. Braue:

We have reviewed the Initial Operating Period SVE Progress Monitoring Report for the period of October 3, 2003 through October 8, 2003, with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

### Item 1: Field Report

1. In accordance with Section 00007, Table 7.2 of the Standard Specifications, the airflow observed at each required monitoring point should be recorded in standard cubic feet per minute (SCFM) and actual cubic feet per minute (ACFM) for each Progress Monitoring Event during the Initial Operating Period. The referenced submittal did not provide the flow rate at each required monitoring point in ACFM. Please modify accordingly.
2. In accordance with Section 00007(4.3)(B) of the Standard Specifications, the concentration of volatile organic compounds (VOCs) at the outlet of each primary and secondary vapor phase carbon adsorption vessels shall be provided for each Progress Monitoring Event during the Initial Operating Period. The referenced submittal did not provide the concentration of VOCs at the outlet of carbon adsorption vessel No. 2 (CV-2). The total VOC flow rate should also be provided at the outlet of CV-2. Please modify accordingly.



# Dvirka and Bartilucci

CONSULTING ENGINEERS

Dale Braue, Project Manager  
Environmental Products & Services, Inc.  
January 6, 2004

Page Two

## Item 6: Hourly Average, Daily, and Cumulative Flow Extracted from each Soil Vapor Extraction Well and Discharged to each Carbon Adsorption Vessel

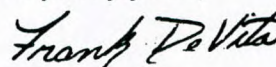
1. The hourly average flow totals provided for SVE-2, CV-1 inlet and CV-1 outlet do not appear to be correct. For example, based upon a cumulative run-time of 1,086.7 hours reported on October 8, 2003 for SVE-2, the average hourly airflow at SVE-2 is 4,253.8 cubic feet, not 4,315.5 cubic feet. Please review and modify accordingly.

## Item 7: Estimated Mass of each Individual Volatile Organic Compound discharged to each Carbon Adsorption Vessel

1. The mass loading rate calculated for CV-1 Inlet and CV-1 Outlet on October 2, 2003, appear to be incorrect. For instance, based on the data provided within the referenced submittal, we calculated the VOC mass-loading rate for CV-1 Inlet on October 2, 2003, to be 0.01604 pounds per day, not 0.01213226 pounds per day. Please review and modify accordingly.
2. The cumulative mass calculated at each of the SVE wells, as well as at the inlet and outlet of each carbon vessel, are incorrect. Using SVE-1 as an example, it appears that the VOC mass-loading rate (lbs/day) calculated on October 8, 2003, was added to the cumulative VOC mass as of October 2, 2003. The VOC mass-loading rate calculated for October 8, 2003, should be multiplied by the number of days in the period (October 3, 2003 through October 8, 2003) and then added to the cumulative VOC mass as of October 2, 2003. Please review all calculations and modify accordingly.

We request that EP&S resubmit the required information in a revised submittal to this office no later than January 10, 2003. Please call me if you have any questions.

Very truly yours,



Frank DeVita  
Project Manager

FDt/lid

cc: J. Trad, NYSDEC  
T. Maher, D&B  
R. Heling, D&B  
M. Wright, D&B  
S. Tauss, D&B

♦1851\FD04LTR-11.DOC





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

January 27, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Dale Braue  
Project Manager  
Environmental Products & Services, Inc.  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Initial Operating Period SVE Progress Monitoring Report (Revised)  
Reporting Period – October 3, 2003 through October 8, 2003  
D&B No. 1851-03

Dear Mr. Braue:

We have reviewed the revised Initial Operating Period SVE Progress Monitoring Report, for the period of October 3 through October 8, 2003, with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

### Item 1: Field Reports

1. In accordance with Section 00007, Table 7.2 of the Standard Specifications, the airflow observed at each required monitoring point should be recorded in standard cubic feet per minute (scfm) and actual cubic feet per minute (acfm) for each Progress Monitoring Event during the Initial Operating Period. While the referenced submittal provided flow rates in scfm and acfm, the acfm flow rates recorded on October 8, 2003, appear to be incorrect. Refer below for the results of acfm conversions performed by this office, using the field data provided within the referenced submittal:



**Dvirka and Bartilucci**  
CONSULTING ENGINEERS

Dale Braue  
Project Manager  
Environmental Products & Services, Inc.  
January 27, 2004


Page Two

Date: 10/8/03	SVE-1	SVE-2	Vessel No. 1 Inlet	Vessel No. 1 Outlet	Vessel No. 2 Outlet
Temperature (°F)	75	73	87	84	81
Pressure (in. W.C.)	-2.3	-30	5.5	2.3	0
Flow (scfm)	30	85	87	99	80
Flow (acfm)	31.04	94.06	90.30	102.99	83.23

Please review all calculations and modify records accordingly.

Please do not hesitate to contact me at (516) 364-9890 should you have any questions.

Very truly yours,



Frank DeVita  
Project Manager

FD(t)/RKH/ajm

cc: J. Trad, NYSDEC  
T. Maher, D&B  
R. Heling, D&B  
M. Wright, D&B  
S. Tauss, D&B

◆1851\FD04LTR-29.doc(R01)

JAN 30 2004





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

January 6, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Waika  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Dale Braue, Project Manager  
Environmental Products & Services, Inc.  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Initial Operating Period SVE Progress Monitoring Report  
Reporting Period – October 9, 2003 through October 15, 2003  
D&B No. 1851-03

Dear Mr. Braue:

We have reviewed the Initial Operating Period SVE Progress Monitoring Report for the period of October 9 to October 15, 2003, with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

### Item 1: Field Report

1. In accordance with Section 00007, Table 7.2 of the Standard Specifications, the airflow observed at each required monitoring point should be recorded in standard cubic feet per minute (SCFM) and actual cubic feet per minute (ACFM) for each Progress Monitoring Event during the Initial Operating Period. The referenced submittal did not provide the flow rate at each required monitoring point in ACFM. Please modify accordingly.
2. In accordance with Section 00007(4.3)(B) of the Standard Specifications, the concentration of volatile organic compounds (VOCs) at the outlet of each primary and secondary vapor phase carbon adsorption vessels shall be provided for each Progress Monitoring Event during the Initial Operating Period. The referenced submittal did not provide the concentration of VOCs at the outlet of carbon adsorption vessel No. 2 (CV-2). The total VOC flow rate should also be provided at the outlet of CV-2. Please modify accordingly.



# Dvirka and Bartilucci

CONSULTING ENGINEERS

Dale Braue, Project Manager  
Environmental Products & Services, Inc.  
January 6, 2004

Page Two

## Item 6: Hourly Average, Daily, and Cumulative Flow Extracted from each Soil Vapor Extraction Well and Discharged to each Carbon Adsorption Vessel

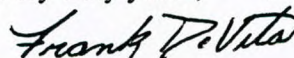
1. The hourly average flow totals provided for SVE-2, CV-1 inlet and CV-1 outlet do not appear to be correct. For example, based upon a cumulative run-time of 1254.7 hours reported on October 15, 2003 for SVE-2, the average hourly airflow at SVE-2 is 4,380.9 cubic feet, not 5,202.9 cubic feet. Please review and modify accordingly.

## Item 7: Estimated Mass of each Individual VOC and Discharged to each of the Carbon Vessels

1. The VOC mass loading rate calculated for CV-1 Outlet, as well as the cumulative VOC mass provided for October 2, 2003, does not correlate with the cumulative run-time reported within that previously reported in the Progress Monitoring Report for the period of October 3, 2003 through October 8, 2003. Please review and modify all records accordingly.
2. The mass loading rate calculated for SVE-1, CV-1 Inlet and CV-1 Outlet on October 15, 2003, appear to be incorrect. For instance, based on the data provided within the referenced submittal, we calculated the VOC mass-loading rate for SVE-1 on October 15, 2003, to be 0.00094 pounds per day, not 0.00141610 pounds per day. Please review and modify accordingly.
3. The cumulative VOC mass calculated at each of the SVE wells, as well as at the inlet and outlet of each carbon vessel, are incorrect. Using SVE-1 as an example, it appears that the VOC mass-loading rate (lbs/day) calculated for October 15, 2003, was added to the cumulative VOC mass as of October 8, 2003. This is incorrect, as the VOC mass-loading rate should be multiplied by the number of days in the period (October 9 to October 15, 2003) and then added to the cumulative VOC mass as of October 8, 2003. Please review all calculations and modify accordingly.

We request that EP&S resubmit the required information in a revised submittal to this office no later than January 10, 2003. Please call me if you have any questions.

Very truly yours,



Frank DeVita  
Project Manager

FDt/lid

cc: J. Trad, NYSDEC  
T. Maher, D&B  
R. Heling, D&B  
M. Wright, D&B  
S. Tauss, D&B

♦1851\FD04LTR-09.DOC





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

January 27, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Waika  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Dale Braue  
Project Manager  
Environmental Products & Services, Inc.  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Initial Operating Period SVE Progress Monitoring Report  
Reporting Period – October 9, 2003 through October 15, 2003  
D&B No. 1851-03

Dear Mr. Braue:

We have reviewed the revised Initial Operating Period SVE Progress Monitoring Report for the period of October 9 to October 15, 2003, with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

### Item 1: Field Reports

1. In accordance with Section 00007, Table 7.2 of the Standard Specifications, the airflow observed at each required monitoring point should be recorded in standard cubic feet per minute (scfm) and actual cubic feet per minute (acfm) for each Progress Monitoring Event during the Initial Operating Period. While the referenced submittal provided flow rates in scfm and acfm, the acfm flow rates recorded on October 15, 2003, appear to be incorrect. Refer below for the results of acfm conversions performed by this office, using the field data provided within the referenced submittal:



**Dvirka and Bartilucci**  
CONSULTING ENGINEERS

Dale Braue  
Project Manager  
Environmental Products & Services, Inc.  
January 27, 2004

Page Two

Date: 10/15/03	SVE-1	SVE-2	Vessel No. 1 Inlet	Vessel No. 1 Outlet	Vessel No. 2 Outlet
Temperature (°F)	73	73	86	80	75
Pressure (in. W.C.)	-2.4	-8.7	5	2.5	0
Flow (scfm)	20	85	85	95	90
Flow (acfm)	20.62	89.03	88.17	98.05	92.60

Please review all calculations and modify records accordingly.

Please do not hesitate to contact me at (516) 364-9890 should you have any questions.

Very truly yours,



Frank DeVita  
Project Manager

FD(t)/RKH/ajm

cc: J. Trad, NYSDEC  
T. Maher, D&B  
R. Heling, D&B  
M. Wright, D&B  
S. Tauss, D&B

♦1851\FD04LTR-31.doc(R01)

JAN 30 2004





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

January 6, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
President

Henry J. Chlupsa, P.E.  
Executive Vice President

Thomas F. Maher, P.E.  
Vice President

Robert T. Burns, P.E.  
Vice President

Richard M. Walka  
Vice President

Steven A. Fangmann, P.E.  
Vice President

Theodore S. Pytlar, Jr.  
Vice President

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Dale Braue, Project Manager  
Environmental Products & Services, Inc.  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Initial Operating Period SVE Progress Monitoring Report  
Reporting Period – October 16, 2003 through October 20, 2003  
D&B No. 1851-03

Dear Mr. Braue:

We have reviewed the Initial Operating Period SVE Progress Monitoring Report for the period of October 16, 2003 through October 20, 2003, with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

### Item 1: Field Report

1. In accordance with Section 00007, Table 7.2 of the Standard Specifications, the airflow observed at each required monitoring point should be recorded in standard cubic feet per minute (SCFM) and actual cubic feet per minute (ACFM) for each Progress Monitoring Event during the Initial Operating Period. The referenced submittal did not provide the flow rate at each required monitoring point in ACFM. Please modify accordingly.
2. In accordance with Section 00007(4.3)(B) of the Standard Specifications, the concentration of volatile organic compounds (VOCs) at the outlet of each primary and secondary vapor phase carbon adsorption vessels shall be provided for each Progress Monitoring Event during the Initial Operating Period. The referenced submittal did not provide the concentration of VOCs at the outlet of carbon adsorption vessel No. 2 (CV-2). The total VOC flow rate should also be provided at the outlet of CV-2. Please modify accordingly.



## Dvirka and Bartilucci

CONSULTING ENGINEERS

Dale Braue, Project Manager  
Environmental Products & Services, Inc.  
January 6, 2004

Page Two

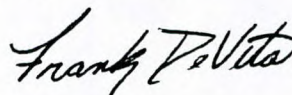
3. In accordance with Section 00007(4.3)(B) of the Standard Specifications, the flow rate at each soil vapor extraction wellhead shall be provided for each Progress Monitoring Event. The flow rate at soil vapor extraction wellhead SVE-1 was not provided. Please modify accordingly.

### Item 7: Estimated Mass of each Individual VOC and Discharged to each of the Carbon Vessels

1. The mass loading rate calculated for SVE-1, CV-1 Inlet and CV-1 Outlet on October 15, 2003, appear to be incorrect. Please review and modify accordingly.
2. The cumulative mass calculated at each of the SVE wells, as well as at the inlet and outlet of each carbon vessel, are incorrect. Using SVE-1 as an example, it appears as if the VOC mass-loading rate (lbs/day) calculated on October 23, 2003 was simply added to the cumulative VOC mass as of October 15, 2003. The VOC mass-loading rate calculated for October 23, 2003, should be multiplied by the number of days in the period (October 15, 2003 through October 23, 2003) and then added to the cumulative VOC mass as of October 15, 2003. Please review all calculations and modify accordingly.

We request that EP&S resubmit the required information in a revised submittal to this office no later than January 10, 2003. Please call me if you have any questions.

Very truly yours,



Frank DeVita  
Project Manager

FDt/lid

cc: J. Trad, NYSDEC  
T. Maher, D&B  
R. Heling, D&B  
M. Wright, D&B  
S. Tauss, D&B

◆1851\FD04LTR-07.DOC





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

January 27, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioralisio, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Dale Braue  
Project Manager  
Environmental Products & Services, Inc.  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Initial Operating Period SVE Progress Monitoring Report (Revised)  
Reporting Period – October 16, 2003 through October 20, 2003  
D&B No. 1851-03

Dear Mr. Braue:

We have reviewed the revised Initial Operating Period SVE Progress Monitoring Report for the period of October 16 through October 20, 2003, with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

### Item 1: Field Reports

1. In accordance with Section 00007, Table 7.2 of the Standard Specifications, the airflow observed at each required monitoring point should be recorded in standard cubic feet per minute (scfm) and actual cubic feet per minute (acfm) for each Progress Monitoring Event during the Initial Operating Period. While the referenced submittal provided flow rates in scfm and acfm, the acfm flow rates recorded on October 23, 2003, appear to be incorrect. Refer below for the results of acfm conversions performed by this office, using the field data provided within the referenced submittal:



**Dvirka and Bartilucci**  
CONSULTING ENGINEERS

Dale Braue  
Project Manager  
Environmental Products & Services, Inc.  
January 27, 2004

Page Two

Date: 10/23/03	SVE-1	SVE-2	Vessel No. 1 Inlet	Vessel No. 1 Outlet	Vessel No. 2 Outlet
Temperature (°F)	63	63	76	68	62
Pressure (in. W.C.)	-2.4	-8.7	10	4	0
Flow (scfm)	20	80	80	100	85
Flow (acfm)	20.23	82.22	80.48	100.55	85.33

Please review all calculations and modify records accordingly.

Please do not hesitate to contact me at (516) 364-9890 should you have any questions.

Very truly yours,



Frank DeVita  
Project Manager

FD(t)/RKH/ajm

cc: J. Trad, NYSDEC  
T. Maher, D&B  
R. Heling, D&B  
M. Wright, D&B  
S. Tauss, D&B

♦1851\FD04LTR-33.doc(R01)

JAN 30 2004





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

eter  
JAN 15 2004

January 12, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
President

Henry J. Chlupsa, P.E.  
Executive Vice President

Thomas F. Maher, P.E.  
Vice President

Robert T. Burns, P.E.  
Vice President

Richard M. Walka  
Vice President

Steven A. Fangmann, P.E.  
Vice President

Theodore S. Pytlar, Jr.  
Vice President

Dale Braue, Project Manager  
Environmental Products & Services, Inc.  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Air Sparging Performance Test Report - Revision 2  
D&B No. 1851-2

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

Dear Mr. Braue:

We have reviewed the Air Sparge (AS) Performance Test Report received in our office on January 2, 2004, and designated as Submittal 12B. We have reviewed the submittal with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioralisio, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

### Item 2: Total Run Time of the Air Sparging Blower

We acknowledge the procedures taken to calculate the cumulative run time of the air sparge blower. However future readings taken from the air sparge blower hour meter should be provided with the actual time recorded to accurately monitor the progress of the Air Sparging System.

The submittal has been stamped "approved as noted." Please do not hesitate to contact me at (516) 364-9890 should you have any questions.

Very truly yours,

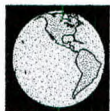
Frank DeVita  
Project Manager

FDT/ld

cc: J. Trad, NYSDEC  
T. Maher, D&B  
M. Wright, D&B  
S. Tauss, D&B  
R. Heling, D&B

◆1851\FD04LTR-22.DOC





# Environmental Products & Services, Inc.

*Geoscience Services Division*

7280 Caswell Street, N. Syracuse, NY 13212 • Phone (315) 476-4410 • Fax (315) 458-0526

December 31, 2003

Mr. Frank DeVita

***Dvirka and Bartilucci***

330 Crossways Park Dr.

Woodbury, NY 11797-2015

SUBMITTED	<input checked="" type="checkbox"/>
APPROVED	<input type="checkbox"/>
APPROVED AS NOTED	<input type="checkbox"/>
REVISED AND RESUBMITTED	<input type="checkbox"/>
DISAPPROVED	<input type="checkbox"/>
THIS MATERIAL HAS BEEN CHECKED FOR GENERAL ARRANGEMENT AND COMPLIANCE WITH SPECIFICATION AND CONTRACT DRAWINGS. APPROVAL OF THIS MATERIAL SHALL NOT RELIEVE THE CONTACTOR OF THE RESPONSIBILITY FOR DIMENSIONAL OR OTHER ERRORS AND OMISSIONS, OR OF GUARANTIES REQUIRED BY THE CONTRACT DOCUMENTS.	
ENVIRONMENTAL PRODUCTS & SERVICES, INC.	
BY <u>RDB/nu</u> DATE <u>12-31-03</u>	

***Project Name:***

**NYSDEC – Franklin Cleaners Site**

***Contract Number:***

**D004184**

***Subject:***

**Response to Comments on**

**Air Sparging Performance Test Report-REVISED (Revision 1)**

Dear Mr. DeVita:

Environmental Products and Services, Inc. (EPS) is pleased to provide the following response to comments presented in your letter dated December 19, 2003 regarding our submittal of the Air Sparging Performance Test Report (Revision 1) (Report).

The items of concern have been addressed below and the Air Sparging Performance Test Report has been revised and resubmitted (Revision 2) under separate cover.

## **General Comments Section**

Per your request, the supplemental performance testing results of October 2, 2003 have been added to the Air Sparging Performance Test Report – Revision 2 (Performance and Remediation Requirements). In accordance with Section 00008(2)(A) of the Contract Documents, the air sparge system shall cause a decrease of at least 0.1 inch of water column in the subsurface vacuum induced by the soil vapor extraction system in each of the soil vapor monitoring probes.



December 31, 2003

The required data to address this issue was collected during the initial start-up of the AS system (September 2, 2003 @ 12:45 hours). However, during start-up of the AS system, positive pressure was noted at SVM-3 and SVM-4. The amount of positive pressure was not recorded using the magnehelic vacuum gauges. Because of this, data was collected on October 2, 2003 to document pressure differentials in the subsurface as related to operation of the SVE system, while the AS system is running. Data collected on October 2, 2003 indicates that the minimum criteria of 0.1 inch of water column differential has been met.

**Item 2: Total Run Time for the Air Sparging Blower**

The hour meter reading of 131.9 hours as recorded on the AS monitoring form of September 8, 2003 does not reflect the entire last day of the AS Performance Test. The time recorded at the top of the monitoring forms indicates an *on-site* time, not necessarily the exact time the meter was read. Nor does the time of 06:00 hours on September 8, 2003 specifically reflect the official end of the AS Performance Test.

Cumulative run time hours have been calculated based on whole days (to midnight of each day), and based on down-time data, when applicable. As previously mentioned, the monitoring form has been updated to include the time the AS blower hour meter is read to provide data to support/coincide with our calculations.

In addition, upon further discussion with the system manufacturer (NES), pre-shipment test time was performed on the system that is not documented at the factory. Our first meter reading was 7.4 hours recorded on September 2, 2003. Therefore, 7.4 hours appears to be manufacturer's test time, which has been added to our calculations, and cumulative run time has been adjusted to **149.15 hours**.

If we subtract the run time of 131.9 hours (recorded at *approximately* 06:00 hours) from our calculated total of 149.15 hours (derived from down-time data), the difference is 17.25 hours. Considering there are 18 hours from 06:00 to 24:00 hours (midnight), it appears the meter was read at approximately 06:45 hours. Accordingly, 131.9 hours of run time (at 06:45) plus 17.25 hours (rest of the day) equals 149.15 hours of run time at the end of the AS Performance Test.

If you have questions regarding this report, please do not hesitate to call our office at (315) 476-4410 or (800) 262-1012.

Very truly yours,

ENVIRONMENTAL PRODUCTS & SERVICES, INC.



R. Dale Braue CEM, RHSP (Ext. 150)  
Director of Geoscience Services.



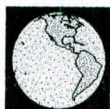
Frank, per our conversation to expedite things, I am only sending what's changed (**bold items**) for this submittal. Here's a summary in the proper order to go along with the attachments you already have.

1. **AS Performance Test Report Revision 2 text.**
2. **Replacement AS Sampling, Monitoring, and Reporting Form for September 3, 2003 08:00 event – corrections needed on the ACFM conversion for AS-1 and AS-3.**
3. **Additional AS Sampling, Monitoring and Reporting Form for October 2, 2003—added to *this* report to support the performance and remediation requirement data (even though this date is outside this operating period).**
4. AS System Down-Time Form (September 2-3, 2003)—you have this; no changes—put this after the additional monitoring forms (#3).
5. Table 1 – Summary of (Vapor) Sample Analytical Results—you have this; no changes—put this after the AS System Down-Time form (#4).
6. Table 2 – Summary of Groundwater Analytical Results—you have this; no changes—put this after Table 1 (#5).
7. Laboratory (Vapor) Analytical Reports (ELS, excerpts SVM-1, SVM-2, SVM-3 and SVM-4)—you have these; place these after Table 2 (#6).
8. Laboratory Groundwater Analytical Results (Chemtech)—you have these—put these after the ELS lab results (#7).

Thanks for all your help and patience.

■ Michele / EPS Geo  
800-262-1012 Ext. 151





# Environmental Products & Services, Inc.

*Geoscience Services Division*

7280 Caswell Street, N. Syracuse, NY 13212 • Phone (315) 476-4410 • Fax (315) 458-0526

December 31, 2003

Mr. Frank DeVita

***Dvirka and Bartilucci***

330 Crossways Park Dr.

Woodbury, NY 11797-2015

SUBMITTED	<input type="checkbox"/>
APPROVED	<input type="checkbox"/>
APPROVED AS NOTED	<input type="checkbox"/>
REVISED AND RESUBMITTED	<input checked="" type="checkbox"/>
DISAPPROVED	<input type="checkbox"/>
THIS MATERIAL HAS BEEN CHECKED FOR GENERAL ARRANGEMENT AND COMPLIANCE WITH SPECIFICATION AND CONTRACT DRAWINGS. APPROVAL OF THIS MATERIAL SHALL NOT RELIEVE THE CONTACTOR OF THE RESPONSIBILITY FOR DIMENSIONAL OR OTHER ERRORS AND OMISSIONS, OR OF GUARANTIES REQUIRED BY THE CONTRACT DOCUMENTS.	
ENVIRONMENTAL PRODUCTS & SERVICES, INC.	
BY <u>R.D. Brune</u> DATE <u>12-31-03</u>	

***Project Name:*** NYSDEC – Franklin Cleaners Site  
***Contract Number:*** D004184  
***Contractor's Name:*** Environmental Products & Services, Inc.  
***Report Number:*** One (of one)  
***Reporting Period Dates:*** September 2, 2003 to September 8, 2003  
***Date of Report:*** December 29, 2003 (Revision 2)  
***Name of Report:*** AIR SPARGING PERFORMANCE TEST REPORT –  
REVISION 2

Dear Mr. DeVita:

Environmental Products and Services, Inc. (EPS) is pleased to provide the following Air Sparging Performance Test Report. The original report was submitted within seven days of completing the Air Sparging Performance Test.

- AS Performance Test Start Date: September 2, 2003 at 12:45 hours  
(Official start of the AS system was on day 10 of the SVE System Performance Test. Background and baseline data collected prior to the above date.)
- AS Performance Test End Date: September 8, 2003 (reflects 7-day run time)

In accordance with Section 4.2.(I) of the Contract Documents, the following information is provided.



1. **Field reports are provided as recorded on the AS Sampling, Monitoring and Reporting Forms, copies attached.** These include data reflecting:
  - Pre-AS Groundwater Sampling event: August 18, 2003 (FC-1, FC-2) and August 20, 2003 (ASM-1 and ASM-2)
  - Two hours prior to start up: September 2, 2003
  - Two hours after initial start-up: September 2, 2003
  - Field reports: September 2 through September 8, 2003
2. **Total Run time (hours) for the AS blower for each 24-hour period during the AS Performance Test:**

Day	Date	Daily Run Time (hours)	Cumulative Run Time (hours)
	Factory Test	7.4	7.4
1	9/2/03	5.75	13.15
2	9/3/03	16	29.15
3	9/4/03	24	53.15
4	9/5/03	24	77.15
5	9/6/03	24	101.15
6	9/7/03	24	125.15
7	9/8/03	24	149.15

3. **Total down-time, if any, for the AS System during the AS Performance Test:**  
13.5 hours (September 2-3, 2003). See attached Air Sparging System Down-Time Form.
4. **Daily and total cumulative air flow in standard cubic feet injected into the aquifer by each air sparging well during the AS Performance Test:**

Day	Date	AS-1 Daily (cf)	Cumulative (cf)	AS-2 Daily (cf)	Cumulative (cf)	AS-3 Daily (cf)	Cumulative (cf)
1	9/2/03	3,450	3,450	3,450	3,450	3,450	3,450
2	9/3/03	11,520	14,970	9,600	13,050	7,680	11,130
3	9/4/03	13,680	28,650	14,112	27,162	14,256	25,386
4	9/5/03	14,400	43,050	14,112	41,274	10,080	35,466
5	9/6/03	14,400	57,450	8,640	49,914	14,400	49,866
6	9/7/03	14,112	71,562	13,680	63,594	9,792	59,658
7	9/8/03	14,112	85,674	13,680	77,274	9,936	69,594



**5. Number of hours each well was used during each 24-hour period and cumulative number of hours each well has been used during the AS Performance Test:**

Day	Date	AS-1 (hours)	Cumulative	AS-2 (hours)	Cumulative	AS-3 (hours)	Cumulative
	Factory Test	7.4	7.4	7.4	7.4	7.4	7.4
1	9/2/03	5.75	13.15	5.75	13.15	5.75	13.15
2	9/3/03	16	29.15	16	29.15	16	29.15
3	9/4/03	24	53.15	24	53.15	24	53.15
4	9/5/03	24	77.15	24	77.15	24	77.15
5	9/6/03	24	101.15	24	101.15	24	101.15
6	9/7/03	24	125.15	24	125.15	24	125.15
7	9/8/03	24	<b>149.15</b>	24	<b>149.15</b>	24	<b>149.15</b>

All AS wells were on line during the AS Performance Test.

- 6. Concentrations of each volatile organic compound, iron and manganese detected, if any, in the groundwater samples collected on August 21, 2003 (one event prior to AS start-up; ASM-1, ASM-2, FC-1, FC-2) are summarized on Table 2, attached. Complete analytical results are also attached.**
- 7. Concentrations of each volatile organic compound detected from vapor samples collected from each Vapor Monitoring Probe (SVM-1, SVM-2, SVM-3, and SVM-4) during the AS Performance Test (September 2 to 8, 2003) are summarized in Table 1, attached. Complete analytical results are also attached.**
- 8. Waste was not generated during the AS Performance Test.**

**Performance and Remediation Requirements**

In response to your request, the following information is added to this Report (Revision 2) to address Performance and Remediation Requirements in accordance with Section 00008(2)(A) of the Contract Documents.

Supplemental performance testing was performed on October 2, 2003 to satisfy the referenced requirement that the air sparge system shall cause a decrease of at least 0.1 inch of water column in the subsurface vacuum induced by the soil vapor extraction system in each of the soil vapor monitoring probes.

The required data to address this issue was collected during the initial start-up of the AS system (September 2, 2003 @ 12:45 hours). However, during start-up of the AS system, positive pressure was noted at SVM-3 and SVM-4. The amount of positive pressure was not recorded using the magnehelic vacuum gauges. Because of this, data was collected on October 2, 2003 to document pressure differentials in the subsurface as related to operation of the SVE system, while the AS system is running. Data collected on October 2, 2003 indicates that the minimum criteria of 0.1 inch of water column differential has been met.



If you have questions regarding this report, please do not hesitate to call our office at (315) 476-4410 or (800) 262-1012.

Very truly yours,

ENVIRONMENTAL PRODUCTS & SERVICES, INC.



R. Dale Braue CEM, RHSP (Ext. 150)  
Director of Geoscience Services.

RDB/ms  
3128.K0122

Enclosures:

AS Sampling, Monitoring, and Reporting Forms (September 2 through 8, 2003)  
AS Sampling, Monitoring, and Reporting Form (October 2, 2003)  
AS System Down-Time Form (September 2-3, 2003)  
Table 1 – Summary of Analytical Results (Vapor: SVM-1, SVM-2, SVM-3, and SVM-4)  
Table 2 – Summary of Groundwater Analytical Results  
Laboratory (Vapor) Analytical Results (ELS, excerpts, SVM-1, SVM-2, SVM-3, and SVM-4)  
Laboratory Groundwater Analytical Results (Chemtech)



**NYSDEC - Franklin Cleaners**  
**Air Sparging System**  
**Sampling, Monitoring and Reporting Form**

Date: 10/2/03 Ambient Temperature: 58.4

Time: 1400 / 1537 Barometric Pressure: 29.91

Technician: J.P. System Phase / Operating Period (circle one):  
 (1) Performance Test (2) Initial (3) Routine

(See instruction sheet for data frequency of each parameter!)

Monitoring/ Sampling Point	Temperature (°F)	pH	Conductivity (umhos/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	Depth to Water Table (feet below grade)
<b>ASM-1</b>						
Volume 1						
Volume 2						
Volume 3						
Sample						
<b>ASM-2</b>						
Volume 1						
Volume 2						
Volume 3						
Sample						
<b>FC-1</b>						
Volume 1						
Volume 2						
Volume 3						
Sample						
<b>FC-2</b>						
Volume 1						
Volume 2						
Volume 3						
Sample						

Hour Meter Reading:

Current Reading (Cumulative)

24-hour Period

Monitoring/ Sampling Point	Temperature (°F)	Pressure/ Vacuum (in W.C.)	Flow Rate		Total VOCs (ppm)
			(ACFM)	(SCFM)	
Air Sparging Well 1 (AS-1)	70	1.5 psi	9.25	10	n/a
Air Sparging Well 2 (AS-2)	78	1.4 psi	9.45	10	n/a
Air Sparging Well 3 (AS-3)	7	1.0 psi	7	7	n/a
Vapor Monitoring Probes:					
No. 1 (SVM-1)	n/a	0.40	n/a	n/a	0
No. 2 (SVM-2)	n/a	0.45	n/a	n/a	0
No. 3 (SVM-3)	n/a	0.60	n/a	n/a	0
No. 4 (SVM-4)	n/a	0.05/0.08	n/a	n/a	0

Completed form to be included in each Air Sparging Monitoring Report.



# NYSDEC - Franklin Cleaners

## Soil Vapor Extraction (SVE) System

### Progress Monitoring Form

Date: 10/2/03 Ambient Temperature: \_\_\_\_\_

Time: 1125/1205 Barometric Pressure: \_\_\_\_\_

Technician: \_\_\_\_\_ System Phase / Operating Period (circle one):  
 (1) Performance Test (2) Initial (3) Routine

(See instruction sheet for data frequency of each parameter!)

(see instructions sheet for data frequency of each parameter!)						
Monitoring/ Sampling Point	Temperature (°F)	Pressure/ Vacuum (in W.C.)	Flow Rate		Total VOC Concentration (ppm at STP)	Estimated Total VOC Flow Rate (lb/hr)
			(ACFM)	(SCFM)		
Vapor Extraction Wells						
No. 1 (SVE-1)		3.0/2.8				
No. 2 (SVE-2)		8.8/8.3				
Vapor Monitoring Probes						
No. 1 (SVM-1)	n/a	.7/1.55	n/a	n/a		n/a
No. 2 (SVM-2)	n/a	1.0/1.55	n/a	n/a		n/a
No. 3 (SVM-3)	n/a	.80/1.65	n/a	n/a		n/a
No. 4 (SVM-4)	n/a	.20/1.04	n/a	n/a		n/a
Primary Carbon Adsorption Vessels*						
Vessel No. 1 Inlet						
Vessel No. 1 Outlet						
Vessel No. 2 Outlet						
Vacuum Blower Suction					n/a	n/a

SVE Blower Run Time (hours): \_\_\_\_\_

*VACUUM READINGS PRIOR TO AIR SPARGE INITIATION*

Current Reading (Cumulative) \_\_\_\_\_ 24-hour Period \_\_\_\_\_

Sound Decibel Readings:  
(four locations, as posted)

1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_ 4 \_\_\_\_\_

\*Was a carbon adsorption vessel replaced?:

NO

*AS on at 1200 noon at AS-1 @ 10 scfm  
 AS-2 @ 10 scfm  
 AS-3 @ 10 scfm*

YES: \_\_\_\_\_ Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Note: A running total of mass of VOCs and volume of air shall be maintained for each carbon adsorption vessel until it is taken off line. Use the Carbon Adsorption Vessel Data Form. A new running total shall be started each time a carbon adsorption vessel is replaced.

Completed form to be included in each SVE System Progress Monitoring Report.



# NYSDEC - Franklin Cleaners

## Air Sparging System

### Sampling, Monitoring and Reporting Form

Date:

9/3/03

Day 11

Ambient Temperature:

62.4

Time:

0800

system back on

Barometric Pressure:

30.09

Technician:

Solun Pocoli

System Phase / Operating Period (circle one):

(1) Performance Test

(2) Initial

(3) Routine

(See instruction sheet for data frequency of each parameter!)

Monitoring/ Sampling Point	Temperature (°F)	pH	Conductivity (umhos/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	Depth to Water Table (feet below grade)
<b>ASM-1</b>						
Volume 1						<del>14.68</del> 22.11
Volume 2						
Volume 3						
Sample						
<b>ASM-2</b>						
Volume 1						<del>22.12</del> 11.68
Volume 2						
Volume 3						
Sample						
<b>FC-1</b>						
Volume 1						
Volume 2						
Volume 3						
Sample						
<b>FC-2</b>						
Volume 1						
Volume 2						
Volume 3						
Sample						

Hour Meter Reading:

16.3

Current Reading (Cumulative)

89-24285

24-hour Period

Monitoring/ Sampling Point	Temperature (°F)	PST Pressure/ Vacuum (in W.C.)	Flow Rate		Total VOCs (ppm)
			(ACFM)	(SCFM)	
Air Sparging Well 1 (AS-1)	<u>72</u>	<u>2/65.46</u>	<u>9.01</u>	<u>10</u>	n/a
Air Sparging Well 2 (AS-2)	<u>80</u>	<u>1.6/44.37</u>	<u>9.37</u>	<u>10</u>	n/a
Air Sparging Well 3 (AS-3)	<u>38</u>	<u>1.6/44.37</u>	<u>8.64</u>	<u>10</u>	n/a
Vapor Monitoring Probes:					
No. 1 (SVM-1)	n/a	<u>0.6/16.63</u>	n/a	n/a	<u>0.0</u>
No. 2 (SVM-2)	n/a	<u>0.55/15.25</u>	n/a	n/a	<u>0.0</u>
No. 3 (SVM-3)	n/a	<u>0.19/5.27</u>	n/a	n/a	<u>0.0</u>
No. 4 (SVM-4)	n/a	<u>0.095/2.63</u>	n/a	n/a	<u>0.0</u>

Completed form to be included in each Air Sparging Monitoring Report.

EPS Project #K0122

SVE-1 3.8

PID 5.2

SVE-2 6.8

PID 71.4

Environmental Products & Services, Inc.





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

January 6, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chilupa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Air Sparge Progress Monitoring Report (Initial Operating Period)  
Reporting Period—September 9, 2003 through September 22, 2003  
D&B No. 1851-03

Dear Mr. Braue:

We have reviewed the Air Sparging Progress Monitoring Report (Initial Operating Period) for the period of September 9, 2003 through September 22, 2003, with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

### Item 1: Field Report

1. In accordance with Section 000088 (4.2)(I)(1) of the Standard Specifications, the airflow observed at each of the air sparging wells should be recorded in standard cubic feet per minute (SCFM) and actual cubic feet per minute (ACFM). As previously commented, in accordance with Section 00007 (4.2)(H)(1) of the Standard Specifications, the airflow observed at each of the AS wells should be recorded in standard cubic feet per minute (SCFM) and actual cubic feet per minute (ACFM). The submitted field report does not include this information. Please review and modify accordingly.

### Item 3: Air Sparging Down-time Form

1. The Air Sparging Down-time Form was not provided within the referenced submittal. Please review and modify accordingly.



**Dvirka and Bartilucci**

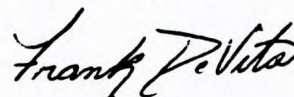
CONSULTING ENGINEERS

Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
January 6, 2004

Page Two

We request EP&S to resubmit the required information in a revised submittal to this office no later than January 10, 2003. Please call me if you have any questions.

Very truly yours,



Frank De Vita  
Project Manager

FD(t)/tam

cc: J. Trad, NYSDEC  
T. Maher, D&B  
R. Heling, D&B  
M. Wright, D&B  
S. Tauss, D&B

© 1851/FD04ltr.doc-01





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

JAN 9 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioralis, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

January 6, 2004

Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Air Sparge Progress Monitoring Report (Initial Operating Period)  
Reporting Period – September 23, 2003 through October 6, 2003  
D&B No. 1851-03

Dear Mr. Braue:

We have reviewed the Air Sparging Progress Monitoring Report (Initial Operating Period) for the period of September 23, 2003 through October 6, 2003, with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

### Item 1: Field Report

1. In accordance with Section 000088 (4.2)(I)(1) of the Standard Specifications, the airflow observed at each of the air sparging wells should be recorded in standard cubic feet per minute (SCFM) and actual cubic feet per minute (ACFM). As previously commented, in accordance with Section 00007 (4.2)(H)(1) of the Standard Specifications, the airflow observed at each of the AS wells should be recorded in standard cubic feet per minute (SCFM) and actual cubic feet per minute (ACFM). The submitted field report does not include this information. Please review and modify accordingly.
2. In accordance with Section 000088 (4.2)(I)(1) of the Standard Specifications, the pressure/vacuum observed at each of the vapor monitoring probes should be recorded one time per week during the Initial Air Sparging Operating Period. The submitted field report does not include this information. Please review and modify accordingly.



Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
January 6, 2004

Page Two

**Item 2: Total Runtime AS blower**

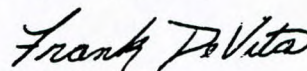
1. The table provided does not correspond with the referenced time frame (September 23, 2003 to October 6, 2003). Please review and modify table accordingly.

**Item 3: Down-time form**

1. The Air Sparging Down-time Form referenced was not provided within the referenced submittal. Furthermore, the Air Sparging Down-Time Form referenced does not apply to the appropriate period. Please review and modify accordingly.

We request EP&S to resubmit the required information in a revised submittal to this office no later than January 10, 2003. Please call me if you have any questions.

Very truly yours,



Frank De Vita  
Project Manager

FD(t)/tam

cc: J. Trad, NYSDEC  
T. Maher, D&B  
R. Heling, D&B  
M. Wright, D&B  
S. Tauss, D&B





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

JAN 9 2004

January 6, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Air Sparge Progress Monitoring Report (Initial Operating Period)  
Reporting Period – October 7, 2003 through October 20, 2003  
D&B No. 1851-03

Dear Mr. Braue:

We have reviewed the Air Sparging Progress Monitoring Report (Initial Operating Period) for the period of October 7, 2003 through October 20, 2003, with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

### Item 1: Field Report

1. In accordance with Section 000088 (4.2)(I)(1) of the Standard Specifications, the airflow observed at each of the air sparging wells should be recorded in standard cubic feet per minute (SCFM) and actual cubic feet per minute (ACFM). As previously commented, in accordance with Section 00007 (4.2)(H)(1) of the Standard Specifications, the airflow observed at each of the AS wells should be recorded in standard cubic feet per minute (SCFM) and actual cubic feet per minute (ACFM). The submitted field report does not include this information. Please review and modify accordingly.
2. In accordance with Section 000088 (4.2)(I)(1) of the Standard Specifications, the pressure/vacuum observed at each of the vapor monitoring probes should be recorded one time per week during the Initial Air Sparging Operating Period. The submitted field report does not include this information. Please review and modify accordingly.



**Dvirka and Bartilucci**

CONSULTING ENGINEERS

Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
January 6, 2004

Page Two

We request EP&S to resubmit the required information in a revised submittal to this office no later than January 10, 2003. Please call me if you have any questions.

Very truly yours,



Frank De Vita  
Project Manager

FD(t)/tam

cc: J. Trad, NYSDEC  
T. Maher, D&B  
R. Heling, D&B  
M. Wright, D&B  
S. Tauss, D&B

01851/FD04ltr.doc-05





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

REC-2 2004

January 29, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
President

Henry J. Chlupsa, P.E.  
Executive Vice President

Thomas F. Maher, P.E.  
Vice President

Robert T. Burns, P.E.  
Vice President

Richard M. Walka  
Vice President

Steven A. Fangmann, P.E.  
Vice President

Theodore S. Pytlar, Jr.  
Vice President

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioralisio, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Mr. Dale Braue  
Project Manager  
Environmental Products & Services, Inc.  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Revised Air Sparge Progress Monitoring Report (Initial Operating Period)  
Reporting Period – September 9, 2003 through September 22, 2003  
D&B No. 1851

Dear Mr. Braue:

We have reviewed the revised Air Sparging Progress Monitoring Report (Initial Operating Period), for the period of September 9, 2003 through September 22, 2003, with respect to the requirements of the Standard Specifications for the above-referenced project. We have no further comments at this time.

Should you have any questions, please feel free to contact me at (516) 364-9890.

Very truly yours,

Frank De Vita  
Project Manager

FDt/cmc

cc: J. Trad, NYSDEC  
T. Maher, D&B  
R. Heling, D&B  
M. Wright, D&B  
S. Tauss, D&B

♦1851VFD04LTR.DOC-39

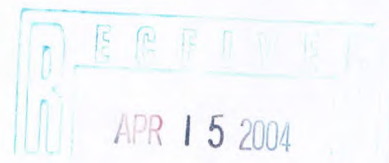




# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net



April 12, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Monthly Soil Vapor Extraction Progress Monitoring Report  
Reporting Period - October 22, 2003, through November 30, 2003  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the revised monthly Soil Vapor Extraction Progress Monitoring Report (Routine Operating Period) for the period of October 22, 2003, through November 30, 2003. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project. We have no further comments at this time.

Should you have any questions, please feel free to contact me at (516) 364-9890.

Very truly yours,

Frank DeVita  
Project Manager

FDt/ajm

cc: J. Trad, NYSDEC  
M. Swidowski, EPS  
T. Maher, D&B  
M. Wright, D&B  
S. Tauss, D&B

◆1851\FD04LTR-56.doc





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net



April 12, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Monthly Soil Vapor Extraction Progress Monitoring Report  
Reporting Period - December 1, 2003, through December 31, 2003  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the revised monthly Soil Vapor Extraction Progress Monitoring Report (Routine Operating Period) for the period of December 1, 2003, through December 31, 2003. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project. We have no further comments at this time.

Should you have any questions, please feel free to contact me at (516) 364-9890.

Very truly yours,

Frank DeVita  
Project Manager

FDt/ajm

cc: J. Trad, NYSDEC  
M. Swidowski, EPS  
T. Maher, D&B  
M. Wright, D&B  
S. Tauss, D&B

◆1851\FD04LTR-57.doc





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 ▪ 718-460-3634 ▪ Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

April 26, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Routine Operating Period SVE Progress Monitoring Report  
Reporting Period – January 1, 2004 through January 31, 2004  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the revised monthly Soil Vapor Extraction Progress Monitoring Report (Routine Operating Period), for the period of January 1, 2004 through January 31, 2004. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

### Item 1: Field Reports

1. In accordance with Section 00007(4.2)(D)(1) of the Standard Specifications, the temperature, vacuum and flow rate at the vacuum blower inlet shall be recorded at a minimum of two times per month during the Routine SVE Operating Period. The field reports provided for January 14, 2004, and January 30, 2004, do not provide the temperature, vacuum and flow rate at the vacuum blower inlet. Submittal of the specified data is required.

### Item 4: Total Downtime

1. The report indicates that the SVE system was shut down on January 16, 2004, and January 25, 2004, due to high levels in the moisture separator. However, a technician was not dispatched to the site until nearly three to four days later in both instances. Please be advised, in



Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
April 26, 2004

Page Two

accordance with Section 00007(4.1)(B) of the Standard Specifications, the SVE system shall be restarted within 24 hours of shutdown and if there is a reason why the system cannot be restarted within 24 hours of shutdown, the Engineer shall be notified. As this is the first time this is being brought to our attention, please provide further explanation with regard to the delayed restart of the SVE system for the shutdowns occurring on January 16, 2004, and January 25, 2004, and corrective measures that will be undertaken in the future to prevent delays in restarting the system.

**Item 5: Concentrations of Each Volatile Organic Compound Detected in the Gas Phase Samples**

1. We understand that ChemTech has been retained by EP&S as a replacement for Environmental Laboratory Services (ELS) to perform all vapor analyses due to an indefinite ELS laboratory equipment failure that occurred on December 22, 2003. Please note, while we acknowledge that vapor VOC analytical results previously reported in micrograms per ten liters (ug/10L) have been converted to micrograms per liter (ug/L), most of the analytical data still appears to be reported in micrograms per ten liters (ug/10L). Please review all vapor VOC analytical data and modify accordingly.

**Item 7: Estimated Daily and Total Cumulative Pounds of Each Individual VOC and Total VOCs Extracted from Each Well and Discharged to Each Carbon Adsorption Vessel**

1. Please note that in accordance with Section 00011, Paragraph 10.1(a) of the Standard Specifications, SVE system vapor samples were to be analyzed for vinyl chloride, 1,2-dichloroethene (total), 1,1-dichloroethene, trichloroethene and tetrachloroethene. Therefore, based on our discussions on April 22, 2004, and the approval of the NYSDEC, we take no exception to reporting mass extraction rates from each SVE well and mass loading rates to each carbon adsorption vessel for these five individual VOCs only. All other compounds can be reported within the calculations for total VOCs extracted from each SVE well and loaded to each carbon adsorption vessel.
2. The mass extraction and loading rates calculated for each individual compound and total VOCs from the concentrations detected in the gas samples, collected at each SVE well and at the inlet and outlet of each carbon adsorption vessel on January 14 and 30, 2004, appear to be incorrect. As discussed on April 23, 2004, the analytical results for the samples collected on January 14 and 30, 2004, were reported by ChemTech in parts per billion by volume (ppbv), not micrograms per liter (ug/l). As a result, the mass extraction and loading rate calculations for gas sample concentrations





Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
April 26, 2004

Page Three

reported in ppbv must utilize the appropriate conversions. Please review all mass extraction and loading calculations for the samples collected on January 14 and 30, 2004, and modify accordingly.

**Item 9: Quantities of All Wastes Generated During the Referenced Routine SVE Operating Period, and Storage and Disposal Locations**

1. Please be advised, the statement "*Waste was not generated during this reporting period of the SVE operating period*" is not consistent with activities documented in the report. The report indicates that the SVE system was shut down on January 16, 2004, and January 25, 2004, due to high levels in the moisture separator. In both instances the moisture water separator was emptied to allow the system to be brought back on-line and the wastewater emptied from the moisture water separator was transferred to a DOT-approved 55-gallon drum. Please provide further explanation with regard to storage locations of the drummed wastewater and disposal accommodations.

We request that EP&S resubmit the required information in a revised submittal to this office no later than May 7, 2004. Please do not hesitate to contact me at (516) 364-9890 should you have any questions.

Very truly yours,

Frank DeVita  
Project Manager

FDt/cmc

cc: J. Trad, NYSDEC  
D. Glass, D&B  
M. Wright, D&B  
S. Tauss, D&B

♦1851\FD04LTR.DOC-66(R03)

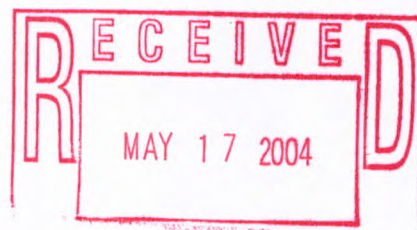




**Dvirka  
and  
Bartilucci**

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 ▪ 718-460-3634 ▪ Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net



May 13, 2004

**Principals**

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

**Senior Associates**

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

**Associates**

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Dale Braue, Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Monthly Soil Vapor Extraction Progress Monitoring Report  
Reporting Period – January 1, 2004 through January 31, 2004  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the revised monthly Soil Vapor Extraction Progress Monitoring Report (Routine Operating Period) for the period of January 1, 2004 through January 31, 2004. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project. We have no further comments at this time.

Should you have any questions please feel free to contact me at (516) 364-9890.

Very truly yours,

Frank DeVita  
Project Manager

FD(t)/ld

cc: J. Trad, NYSDEC  
D. Glass, D&B  
M. Swidowski, EPS  
♦1851\FD04LTR-72.DOC(R01)





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 ▪ 718-460-3634 ▪ Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

May 13, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Mr. Dale Braue, Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Routine Operating Period SVE Progress Monitoring Report  
Reporting Period – February 1, 2004 through February 29, 2004  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the revised monthly Soil Vapor Extraction Progress Monitoring Report (Routine Operating Period) for the period of February 1, 2004 through February 29, 2004. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below is our only comment.

### Item 1: Field Reports

1. In accordance with the Standard Specifications, temperature, vacuum and flow rate at the vacuum blower inlet shall be recorded at a minimum of two times per month during the Routine SVE Operating Period. The progress monitoring form provided for February 25, 2004 did not provide the temperature, vacuum and flow rate at the vacuum blower inlet. Submittal of the specified data is required.

Please do not hesitate to contact me at (516) 364-9890 should you have any questions.

Very truly yours,

Frank DeVita  
Project Manager

FDt/jmy,ld

cc: J. Trad, NYSDEC  
D. Glass, D&B  
M. Swidowski, EPS

◆1851\FD04LTR.DOC-73(R01)





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 ▪ 718-460-3634 ▪ Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

May 24, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Revised Routine Operating Period SVE Progress Monitoring Report  
Reporting Period – February 1, 2004 through February 29, 2004  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the revised monthly Soil Vapor Extraction Progress Monitoring Report (Routine Operating Period), for the period of February 1, 2004 through February 29, 2004. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project. We have no further comments at this time.

Should you have any questions please feel free to contact me at (516) 364-9890.

Very truly yours,

Frank De Vita  
Project Manager

FDt/jmy

cc: J. Trad, NYSDEC  
D. Glass, D&B  
M. Swidowski

♦1851\FD04LTR.DOC-78





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

June 2, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Monthly Soil Vapor Extraction Progress Monitoring Report  
Reporting Period – March 1, 2004 through March 31, 2004  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the monthly Soil Vapor Extraction Progress Monitoring Report (Routine Operating Period), for the period of March 1, 2004 through March 31, 2004. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project. We have no further comments at this time.

Should you have any questions please feel free to contact me at (516) 364-9890.

Very truly yours,

Frank De Vita  
Project Manager

FDt/jmy

cc: J. Trad, NYSDEC  
D. Glass, D&B  
M. Swidowski, EPS

◆1851\FD04LTR.DOC-82(R01)





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

June 2, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Monthly Soil Vapor Extraction Progress Monitoring Report  
Reporting Period – April 1, 2004 through April 30, 2004  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the monthly Soil Vapor Extraction Progress Monitoring Report (Routine Operating Period), for the period of April 1, 2004 through April 30, 2004. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project. We have no further comments at this time.

Should you have any questions please feel free to contact me at (516) 364-9890.

Very truly yours,

Frank De Vita  
Project Manager

FDt/jmy

cc: J. Trad, NYSDEC  
D. Glass, D&B  
M. Swidowski, EPS

♦1851\FD04LTR.DOC-83(R01)





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net



April 12, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Monthly Air Sparging Progress Monitoring Report  
Reporting Period - October 21, 2003, through November 30, 2003  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the monthly Air Sparging Progress Monitoring Report for the period of October 21, 2003, through November 30, 2003. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

### Item 1: Field Reports

1. In accordance with Section 00008 (4.3)(C) of the Standard Specifications, water table elevations and field parameters including pH, conductivity, turbidity, temperature and dissolved oxygen shall be measured and recorded for each groundwater sampling event. The field report provided for the November 26, 2003, groundwater sampling event did not contain this information. Please modify the referenced report to include water table elevations and required field parameters recorded during the November 26, 2003, groundwater sampling event.

### Item 3: Air Sparging System Down-Time

1. A total system downtime of 418.62 hours was documented for this reporting period, mainly due to problems with telephone and electrical utilities at the site. While glitches are expected during the initial phases of start up, efforts should be taken to minimize system downtime in the future.



**Dvirka and Bartilucci**

CONSULTING ENGINEERS

Dale Braue  
Project Manager  
Environmental Products & Services  
April 12, 2004

Page Two

We request EP&S to resubmit the required information in a revised submittal to this office no later than April 23, 2004. Should you have any questions, please feel free to contact me at (516) 364-9890.

Very truly yours,



Frank DeVita  
Project Manager

FDt/ajm

cc: J. Trad, NYSDEC  
M. Swidowski, EPS  
T. Maher, D&B  
M. Wright, D&B  
S. Tauss, D&B

◆1851\FD04LTR-54.doc





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 ▪ 718-460-3634 ▪ Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

April 22, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Dale Braue, Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Monthly Air Sparging Progress Monitoring Report  
Reporting Period - October 21, 2003 through November 30, 2003  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the monthly Air Sparging Progress Monitoring Report for the period of October 21, 2003 through November 30, 2003. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

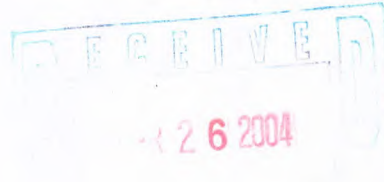
### Item 1: Field Reports

1. We acknowledge that water table elevations and field parameters, including pH, conductivity, turbidity, temperature and dissolved oxygen, were measured at groundwater monitoring wells ASM-1 and ASM-2 on November 24, 2003. However, field reports contained within the initial submission of the Monthly Air Sparging Progress Monitoring Report (One) indicate that groundwater samples were not collected from groundwater monitoring wells ASM-1 and ASM-2 until November 26, 2003. As this is not consistent with the procedures contained in EP&S' approved Sampling Analysis Plan, please explain why groundwater samples were collected from groundwater monitoring wells ASM-1 and ASM-2 two (2) days after recording the required field parameters.



**Dvirka and Bartilucci**  
CONSULTING ENGINEERS

Dale Braue, Project Manager  
Environmental Products & Services  
April 22, 2004



Page Two

We request that EP&S resubmit the required information in a revised submittal to this office no later than April 27, 2004. Should you have any questions please feel free to contact me at (516) 364-9890.

Very truly yours,

Frank DeVita  
Project Manager

FD(t)/ld

cc: J. Trad, NYSDEC  
T. Maher, D&B  
M. Wright, D&B  
S. Tauss, D&B  
M. Swidowski, EPS  
♦1851\FD04LTR-62.DOC(R01)





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 ▪ 718-460-3634 ▪ Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

April 22, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Dale Braue, Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Monthly Air Sparging Progress Monitoring Report  
Reporting Period – December 1, 2003 through December 31, 2003  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the monthly Air Sparging Progress Monitoring Report, for the period of December 1, 2003 through December 31, 2003. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

### Item 3: Total Downtime

1. The submitted report indicates that the air sparging system was down from December 11, 2003 through December 19, 2003. Please provide a description of the cause for shutdown and corrective actions taken.

### Item 4: Daily and Cumulative Airflow Injected by Each Air Sparge Well

1. The daily airflow documented for air sparge wells AS-1, AS-2 and AS-3 during the referenced period shall be reported in standard cubic feet injected into the aquifer. While daily airflow measurements appear to be reported in standard cubic feet (scf) for each of the air sparging wells, the table header references daily airflow measurements in standard cubic feet per minute (scfm). Please review units and modify accordingly.



**Dvirka and Bartilucci**

CONSULTING ENGINEERS

Dale Braue, Project Manager  
Environmental Products & Services  
April 22, 2004

Page Two

We request that EP&S resubmit the required information in a revised submittal to this office no later than April 27, 2004. Should you have any questions please feel free to contact me at (516) 364-9890.

Very truly yours,



Frank DeVita  
Project Manager

FD(t)/ld

cc: J. Trad, NYSDEC  
T. Maher, D&B  
M. Wright, D&B  
S. Tauss, D&B  
M. Swidowski, EPS

♦1851\FD04LTR-60.DOC(R01)





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 ▪ 718-460-3634 ▪ Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

May 24, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Revised Routine Operating Period AS Progress Monitoring Report  
Reporting Period – December 1, 2003 through December 31, 2003  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the revised routine operating period AS Progress Monitoring Report, for the period of December 1, 2003 through December 31, 2003. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project and have no further comments at this time.

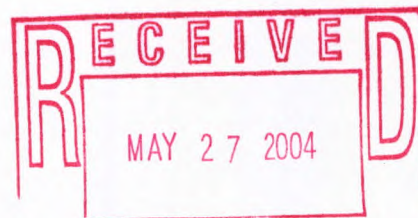
Should you have any questions please feel free to contact me at (516) 364-9890.

Very truly yours,

Frank De Vita  
Project Manager

FDt/jmy

cc: J. Trad, NYSDEC  
D. Glass, D&B  
M. Swidowski, EPS  
♦1851\FD04LTR.DOC-76







# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 ■ 718-460-3634 ■ Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

April 22, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Dale Braue, Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Monthly Air Sparging Progress Monitoring Report  
Reporting Period – January 1, 2003 through January 31, 2003  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the monthly Air Sparging Progress Monitoring Report for the period of January 1, 2003 through January 31, 2003. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project. Presented below are our comments:

### Item 1: Field Reports

1. In accordance with Section 00008 (4.3)(C) of the Standard Specifications, water table elevations and field parameters, including pH, conductivity, turbidity, temperature and dissolved oxygen, shall be measured and recorded for each groundwater sampling event. The field report provided for the January 29, 2004 groundwater-sampling event did not contain water table elevations for ASM-1 and ASM-2. Please modify the referenced report to include water table elevations recorded during the January 29, 2004 sampling event.

### Item 3: Total Downtime

1. The report indicates that the air sparging system was shutdown down on January 16, 2004 and January 25, 2004, due to high levels in the moisture separator. However, a technician was not dispatched to the site until nearly three to four days later in both instances. Please be advised, in accordance with Section 00008 (4.1)(A) of the Standard Specifications, the air sparging system shall be restarted within 24 hours of shutdown and if there is a reason why the system cannot be restarted within 24 hours of shutdown, the Engineer shall be notified. As this is the first time this shutdown is being brought to our attention, please provide further explanation with regard to the delayed restart of the air sparging system for shutdowns occurring on January 16, 2004 and January 25, 2004, and corrective measures that will be undertaken in the future to prevent delays in restarting the system.



Dale Braue, Project Manager  
Environmental Products & Services  
April 22, 2004

Page Two

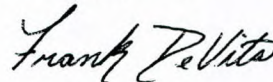
2. A total system downtime of 170.69 hours was documented for this reporting period, mainly due to shutdowns as a result of high levels in the moisture separator. Efforts should be taken to minimize system downtime in the future.

**Item 4: Daily and Cumulative Airflow Injected by Each Air Sparge Well**

1. The daily airflow documented for air sparge wells AS-1, AS-2 and AS-3 during the referenced period shall be reported in standard cubic feet injected into the aquifer. While daily airflow measurements appear to be reported in standard cubic feet (scf) for each of the air sparging wells, the table header references daily airflow measurements in standard cubic feet per minute (scfm). Please review units and modify accordingly.

We request that EP&S resubmit the required information in a revised submittal to this office no later than April 27, 2004. Should you have any questions please feel free to contact me at (516) 364-9890.

Very truly yours,



Frank DeVita  
Project Manager

FD(t)/ld

cc: J. Trad, NYSDEC  
T. Maher, D&B  
M. Wright, D&B  
S. Tauss, D&B  
M. Swidowski, EPS  
♦1851\FD04LTR-64.DOC(R01)





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 ▪ 718-460-3634 ▪ Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

May 24, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Revised Routine Operating Period AS Progress Monitoring Report  
Reporting Period – January 1, 2004 through January 31, 2004  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the revised routine operating period AS Progress Monitoring Report, for the period of January 1, 2004 through January 31, 2004. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project and have no further comments at this time.

Should you have any questions please feel free to contact me at (516) 364-9890.

Very truly yours,

Frank De Vita  
Project Manager

FDt/jmy

cc: J. Trad, NYSDEC  
D. Glass, D&B  
M. Swidowski, EPS

♦1851\FD04LTR.DOC-77





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

June 2, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioralisio, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Routine Operating Period AS Progress Monitoring Report  
Reporting Period – February 1, 2004 through February 29, 2004  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the routine operating period AS Progress Monitoring Report, for the period of February 1, 2004 through February 29, 2004. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project and have no further comments at this time.

Should you have any questions please feel free to contact me at (516) 364-9890.

Very truly yours,

Frank De Vita  
Project Manager

FDt/jmy

cc: J. Trad, NYSDEC  
D. Glass, D&B  
M. Swidowski, EPS

♦1851\FD04LTR.DOC-84





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net

June 2, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

## Senior Associates

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

## Associates

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Routine Operating Period AS Progress Monitoring Report  
Reporting Period – March 1, 2004 through March 31, 2004  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the routine operating period AS Progress Monitoring Report, for the period of March 1, 2004 through March 31, 2004. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project and have no further comments at this time.

Should you have any questions please feel free to contact me at (516) 364-9890.

Very truly yours,

Frank De Vita  
Project Manager

FDt/jmy

cc: J. Trad, NYSDEC  
D. Glass, D&B  
M. Swidowski, EPS

♦1851\FD04LTR.DOC-85





**Dvirka  
and  
Bartilucci**

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: db-eng@worldnet.att.net



June 2, 2004

**Principals**

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Thomas F. Maher, P.E.  
*Vice President*

Robert T. Burns, P.E.  
*Vice President*

Richard M. Walka  
*Vice President*

Steven A. Fangmann, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

**Senior Associates**

Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E.

Joseph H. Marturano

John A. Mirando, P.E.

Kenneth J. Pritchard, P.E.

Brian M. Veith, P.E.

**Associates**

Joseph F. Baader

Garrett M. Byrnes, P.E.

Rudolph F. Cannavale

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Edward J. Reilly

Charles J. Wachsmuth, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Routine Operating Period AS Progress Monitoring Report  
Reporting Period – April 1, 2004 through April 30, 2004  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the routine operating period AS Progress Monitoring Report, for the period of April 1, 2004 through April 30, 2004. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project and have no further comments at this time.

Should you have any questions please feel free to contact me at (516) 364-9890.

Very truly yours,

Frank De Vita  
Project Manager

FDt/jmy

cc: J. Trad, NYSDEC  
D. Glass, D&B  
M. Swidowski, EPS

♦1851\FD04LTR.DOC-86





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: findingsolutions@db-eng.com

OCT 29 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Steven A. Fangmann, P.E.  
*Senior Vice President*

Richard M. Walka  
*Senior Vice President*

John A. Mirando, P.E.  
*Vice President*

Anthony O. Conetta, P.E.  
*Vice President*

Dennis F. Koehler, P.E.  
*Vice President*

Joseph H. Marturano  
*Vice President*

Kenneth J. Pritchard, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

Brian M. Veith, P.E.  
*Vice President*

## Senior Associates

Garrett M. Bymes, P.E.

David S. Glass, P.E.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Kenneth P. Wenz, Jr., C.P.G.

## Associates

Joseph F. Baader

Steven M. Cabrera

Rudolph F. Cannavale

Christopher M. Clement

Stefanos J. Eapen, R.A.

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Christopher W. Francis

Robert L. Haynie, P.E.

Michael R. Hofgren

Andrew T. Lehman

Edward J. Reilly

Daniel Shabat, P.E.

Charles J. Wachsmuth, P.E.

October 25, 2004

Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Routine Operating Period AS Progress Monitoring Report  
Reporting Period – September 1, 2004 through September 30, 2004  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the routine operating period AS Progress Monitoring Report, for the period of September 1, 2004 through September 30, 2004. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project and have no further comments at this time.

Should you have any questions please feel free to contact me at (516) 364-9890.

Very truly yours,

Frank DeVita  
Project Manager

FDt/cmc

cc: J. Trad, NYSDEC  
D. Glass, D&B  
M. Swidowski, EPS

♦1851\FD04(A)\LTR.DOC-14





**Dvirka  
and  
Bartilucci**

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: findingsolutions@db-eng.com

OCT 29 2004

**Principals**

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Steven A. Fangmann, P.E.  
*Senior Vice President*

Richard M. Walka  
*Senior Vice President*

John A. Miranda, P.E.  
*Vice President*

Anthony O. Conetta, P.E.  
*Vice President*

Dennis F. Koehler, P.E.  
*Vice President*

Joseph H. Marturano  
*Vice President*

Kenneth J. Pritchard, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

Brian M. Veith, P.E.  
*Vice President*

**Senior Associates**

Garrett M. Bymes, P.E.

David S. Glass, P.E.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Kenneth P. Wenz, Jr., C.P.G.

**Associates**

Joseph F. Baader

Steven M. Cabrera

Rudolph F. Cannavale

Christopher M. Clement

Stefanos J. Eapen, R.A.

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Christopher W. Francis

Robert L. Haynie, P.E.

Michael R. Hofgren

Andrew T. Lehman

Edward J. Reilly

Daniel Shabat, P.E.

Charles J. Wachsmuth, P.E.

October 25, 2004

Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Monthly Soil Vapor Extraction Progress Monitoring Report  
Reporting Period – September 1, 2004 through September 30, 2004  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the revised monthly Soil Vapor Extraction Progress Monitoring Report (Routine Operating Period) for the period of September 1, 2004 through September 30, 2004. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project. We have no further comments at this time.

Should you have any questions please feel free to contact me at (516) 364-9890.

Very truly yours,

Frank DeVita  
Project Manager

FDt/cmc

cc: J. Trad, NYSDEC  
D. Glass, D&B  
M. Swidowski, EPS

♦1851\FD04(A)\LTR.doc-13





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: findingsolutions@db-eng.com

DEC - 2 2004

November 26, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
President

Henry J. Chlupsa, P.E.  
Executive Vice President

Steven A. Fangmann, P.E.  
Senior Vice President

Richard M. Walka  
Senior Vice President

John A. Mirando, P.E.  
Vice President

Anthony O. Conetta, P.E.  
Vice President

Dennis F. Koehler, P.E.  
Vice President

Joseph H. Marturano  
Vice President

Kenneth J. Pritchard, P.E.  
Vice President

Theodore S. Pytlar, Jr.  
Vice President

Brian M. Veith, P.E.  
Vice President

## Senior Associates

Garrett M. Byrnes, P.E.

David S. Glass, P.E.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Kenneth P. Wenz, Jr., C.P.G.

## Associates

Joseph F. Baader

Steven M. Cabrera

Rudolph F. Cannavale

Christopher M. Clement

Stefanos J. Eapen, R.A.

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Christopher W. Francis

Robert L. Haynie, P.E.

Michael R. Hofgren

Andrew T. Lehman

Edward J. Reilly

Daniel Shabat, P.E.

Charles J. Wachsmuth, P.E.

Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Routine Operating Period AS Progress Monitoring Report  
Reporting Period – October 1, 2004 through October 30, 2004  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the routine operating period AS Progress Monitoring Report, for the period of October 1, 2004 through October 31, 2004. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project and have no comments at this time.

Should you have any questions please feel free to contact me at (516) 364-9890.

Very truly yours,

Frank DeVita  
Project Manager

FDt/gb,ld

cc: J. Trad, NYSDEC  
D. Glass, D&B  
M. Swidowski, EPS  
◆1851\FD04(A)LTR.DOC-18(R01)





# Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015  
516-364-9890 • 718-460-3634 • Fax: 516-364-9045  
e-mail: findingsolutions@db-eng.com

DEC -2 2004

November 26, 2004

## Principals

Nicholas J. Bartilucci, P.E.  
*President*

Henry J. Chlupsa, P.E.  
*Executive Vice President*

Steven A. Fangmann, P.E.  
*Senior Vice President*

Richard M. Walka  
*Senior Vice President*

John A. Mirando, P.E.  
*Vice President*

Anthony O. Conetta, P.E.  
*Vice President*

Dennis F. Koehler, P.E.  
*Vice President*

Joseph H. Marturano  
*Vice President*

Kenneth J. Pritchard, P.E.  
*Vice President*

Theodore S. Pytlar, Jr.  
*Vice President*

Brian M. Veith, P.E.  
*Vice President*

## Senior Associates

Garrett M. Bymes, P.E.

David S. Glass, P.E.

Gerald Gould, C.P.G.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Kenneth P. Wenz, Jr., C.P.G.

## Associates

Joseph F. Baader

Steven M. Cabrera

Rudolph F. Cannavale

Christopher M. Clement

Stefanos J. Eapen, R.A.

Joseph A. Fioraliso, P.E.

Thomas P. Fox, P.G.

Christopher W. Francis

Robert L. Haynie, P.E.

Michael R. Hofgren

Andrew T. Lehman

Edward J. Reilly

Daniel Shabat, P.E.

Charles J. Wachsmuth, P.E.

Mr. Dale Braue  
Project Manager  
Environmental Products & Services  
7280 Caswell Street  
North Syracuse, NY 13212

Re: Franklin Cleaners (Site No. 1-30-050)  
NYSDEC Contract No. D004184  
Monthly Soil Vapor Extraction Progress Monitoring Report  
Reporting Period – October 1, 2004 through October 31, 2004  
D&B No. 1851

Dear Mr. Braue:

We are in receipt of the revised monthly Soil Vapor Extraction Progress Monitoring Report (Routine Operating Period) for the period of October 1, 2004 through October 31, 2004. We have reviewed the report with respect to the requirements of the Standard Specifications for the above-referenced project. We have no comments at this time.

Should you have any questions please feel free to contact me at (516) 364-9890.

Very truly yours,

Frank DeVita  
Project Manager

FDt/gb,ld

cc: J. Trad, NYSDEC  
D. Glass, D&B  
M. Swidowski, EPS  
♦1851\FD04(A)LTR.doc-17(R01)



*Jay/G. Trad*

**New York State Department of Environmental Conservation**  
**Division of Environmental Remediation**  
**Bureau of Construction Services, 12<sup>th</sup> Floor**  
625 Broadway, Albany, New York 12233-7013  
**Phone:** (518) 402-9814 • **FAX:** (518) 402-9819  
**Website:** [www.dec.state.ny.us](http://www.dec.state.ny.us)



Erin M. Crotty  
Commissioner

MAY 31 2002

Mr. Dale Braue  
EPS Geoscience Services  
7280 Caswell St.  
North Syracuse, NY 13212

Dear Mr. Braue:

RE: Franklin Cleaners  
Site No 1-30-050, Hempstead (T), Nassau Co.  
Contract No. D004184  
Pre-Construction Meeting

As we have previously discussed, the Pre-Construction Meeting for the above contract will be held on June 5, 2002 at the DEC Central Office, 625 Broadway, Albany. We will conference in our design/oversight consultant, Dvirka and Bartilucci, from their Long Island office. The time of this meeting will be 11:00 a.m. and you may expect that the meeting will not extend past 1:00 p.m.

We plan to issue the Award Letter with a Notice to Proceed date of June 10, 2002. Please be prepared at the Pre-Construction Meeting to discuss and submit a revised schedule for the project. Based upon our last few conversations, it appears that you will also need to submit a revised schedule of values and probably a revised M/WBE Utilization Plan. We expect that after this long delay in obtaining the formal award of the contract, EPS should be in a good position with respect to submission of all required shop drawings and other documents. If there are any specific issues you plan to raise, I urge you to contact me prior to this meeting so we can adequately respond to the concerns.

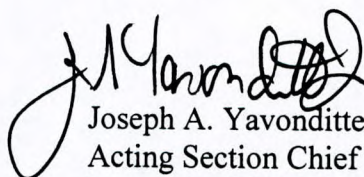
There is public parking available south and west of 625 Broadway. When you enter the building and stop at security, they will call us to bring you up to our offices.



Once this project is underway, your primary contact in this office will be Jeff Trad who will become the Project Manager for the Franklin Cleaners Site.

If you have any questions, please call me or Jeff Trad at (518) 402-9814.

Sincerely,



Joseph A. Yavonditte, P.E.  
Acting Section Chief  
Eastern Field Services Section  
Bureau of Construction Services  
Division of Environmental Remediation

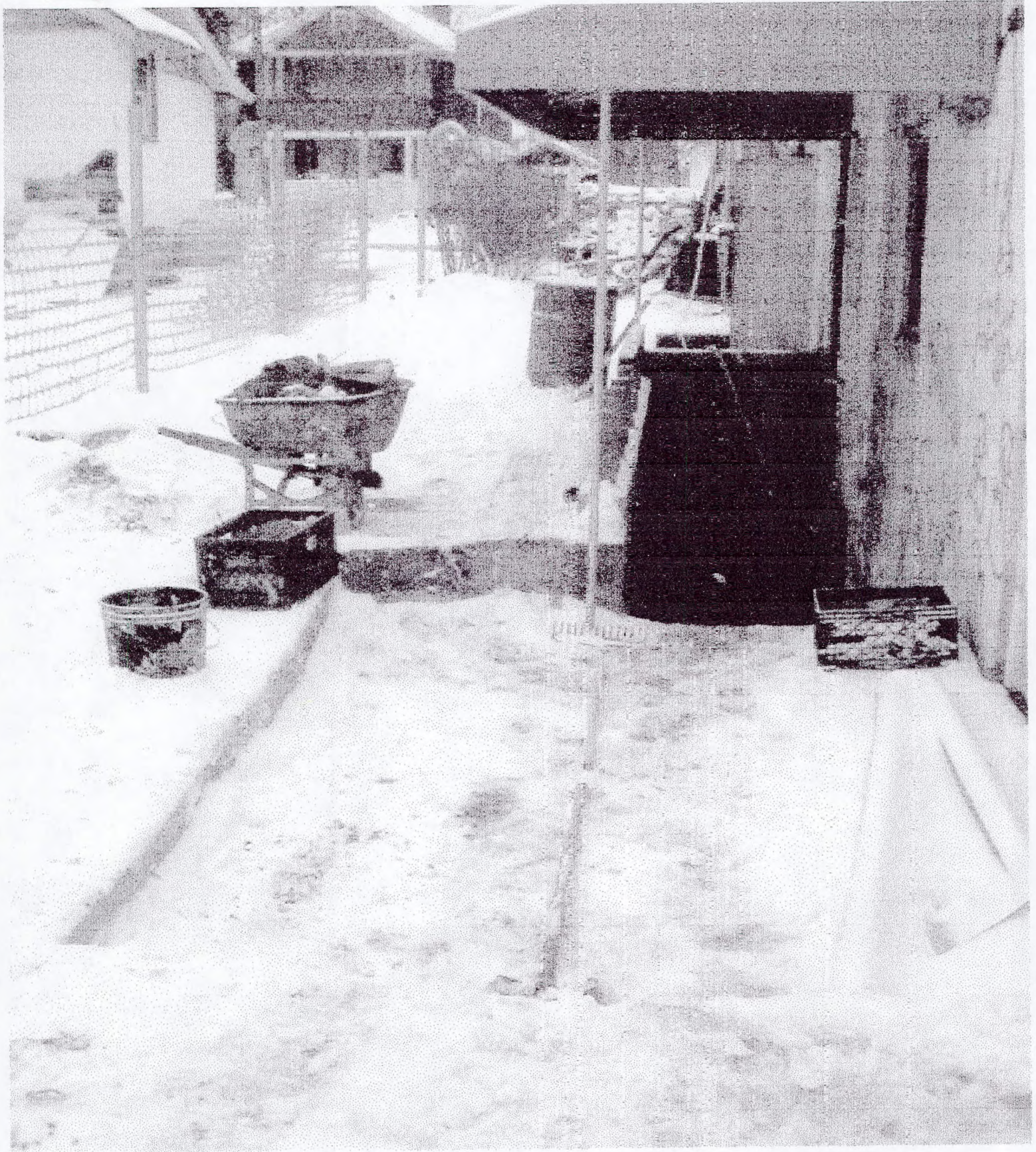
cc: W. Parish - NYSDEC, Region 1  
T. Maher/F. DeVita - D&B  
G. Litwin/W. Gilday - NYSDOH  
J. Neri - H2M  
N. Rosenberg - NYSOPRHP

JY/ts

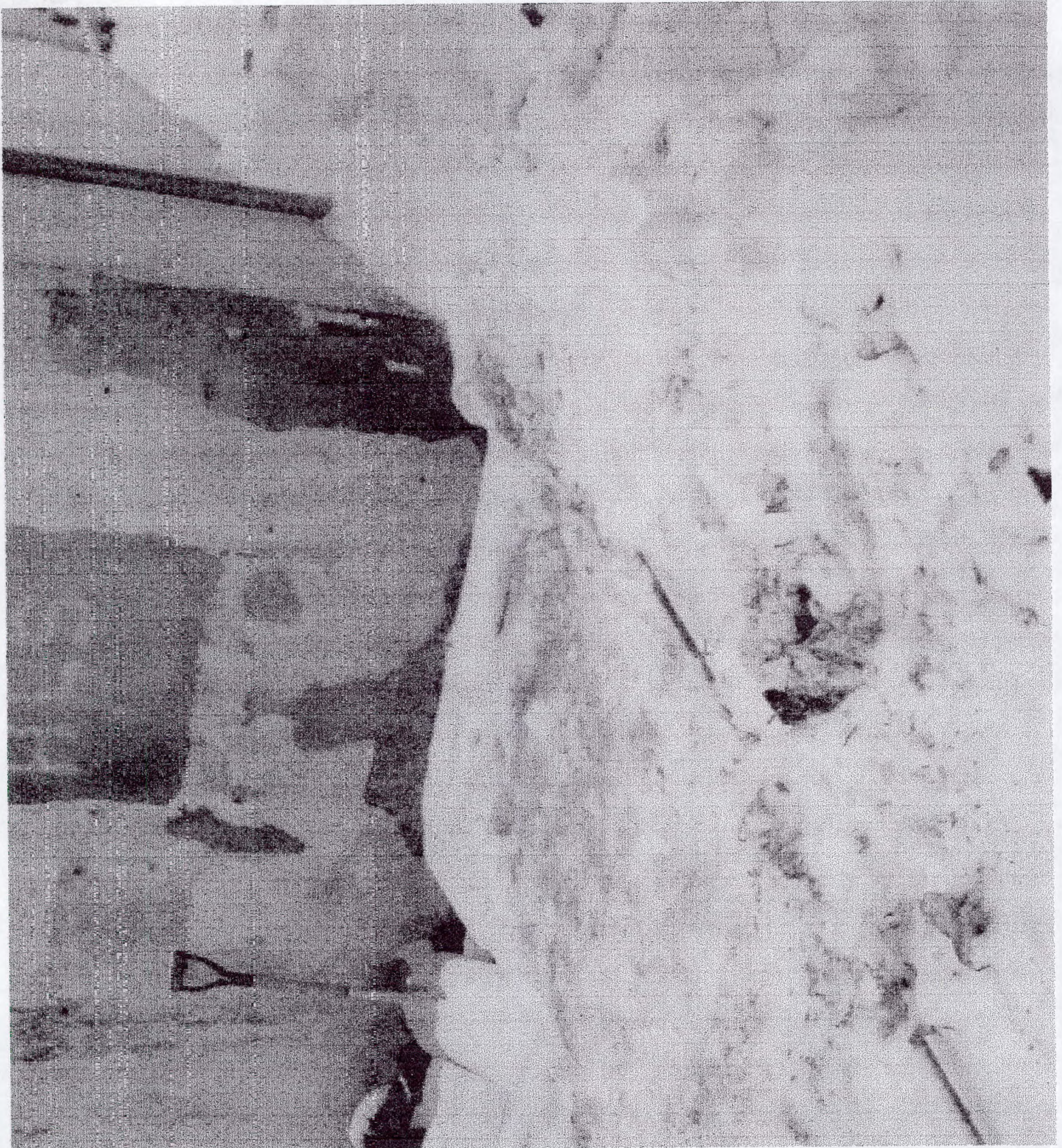
bcc: V. Alfonso  
J. Yavonditte/J. Trad ✓  
Dayfile

E:\Franklin Cleaners\SVE(Cleaners)\_Pre-Con.wpd











edoc

**Franklin Cleaners Site**  
**No. 1-30-050**  
**(Source SVE/Air Sparge)**  
**Pre- Construction Conference**  
**June 6<sup>5</sup>, 2002**

**Agenda**

1. Lines of Authority and Responsibility
2. Current Contract Status
3. Construction Schedule
4. Temporary facilities
5. Traffic Control and Access
6. Shop Drawing and Submittals
7. Subcontractors
8. Inspection of Work
9. Request for Payment
10. Field Clarifications, Bulletins
11. Change Orders
12. Job Safety
12. Security
13. Housekeeping
14. Regulatory Requirements
15. EEO- M/WBE - Wage Rates
16. Utilities
17. Record Drawing/Record Information
18. Discussion

Post-it® Fax Note

7671

Date	6/5/02	# of pages	1
To	FRANK DEVITA	From	JOE TRAD
Co./Dept.	D+B	Co.	DEC
Phone #	516-364-9890	Phone #	518-402-9814
Fax #	516-364-9045	Fax #	



6/5/02

## Franklin Dry Cleaner pre construction Meeting

Dale Brane - EPS

Joe Yawonditte

Bill Glday - DOT ~~by~~ Law - DOH

Frank Devita/maria Wright - D+B

Notice to Proceed 6/10/02

~~Subpoena~~



Need revised EPS schedule

Election year, make sure Frank has a phone # for Press office.

Phil Perna

Claude Shipman

Henry ~~the~~ Cunningham



Site visit next week either 6/11 or 6/18



Check w/ Dave camp for phone #'s of property owners.



6/4/02

Joe DeFrance      Frank's site  
Duce


Raymond - Runs laundry

---

forward to date the monitoring requirements for  
work @ ~~the~~ a commercial facility



**Franklin Cleaners Site  
On-Site Construction Meeting Agenda  
March 12, 2003**

1. Schedule
  2. Status of Submittals *20 yds of debris,*
  3. Review of all work completed to date
  4. Review of real-time air monitoring results to date
  5. Open Discussion
- 





2407

NATIONAL ENVIRONMENTAL SYSTEMS, INC.  
36 Maple Avenue, Seekonk, Massachusetts 02771  
TEL (508) 761 6611 FAX (508) 761 6898

August 14, 2003

Mr. Dale Braue  
Environmental Products & Service  
7280 Caswell Street  
N. Syracuse, NY. 13212

**SUBJECT:** National Environmental Systems Job No.01-A-086  
Franklin Cleaners

Dear Mr.Braue:

Please be aware that if a ship to address is not received by 4:00 PM today for the Franklin Cleaners project it will delay shipment past the expected date of August 19<sup>th</sup>. Your prompt attention to this matter would be appreciated.

If you have any questions or require additional information, please do not hesitate to contact me.

Very Truly Yours,

Pixie Terreault

*Called Chris Joyle  
@ 11:00 AM on 8/14/03  
to give him address.  
He already had it*



7/31/03  
eden

Steven Rachmach EPS  
Dale Braun EPS  
Chris Toyle Bot Paris - NES

Frank Devita

diverter Duty Motor will ship 7/31/03  
Should arrive at NES by 8/5 or 8/6/03

Dale spoke w/ Village of Hempsted about  
closing off the street.

Chris will notify Frank on noise test



7/14/03

## Franklin EPS

Me

Frank DeVita

Steven Rachtmachers

Dale Braun

Pixie T - NES

Bob Davis - NES

Chris Jorel - NES

Pixie - Controls are Done

- Most parts are here ex/ inverted duty motor



## Franklin onsite Conference Call

Pixie Therault - NES

Dale Brau - EPS

Frank Devita - DTB

Steven Rachmacher - EPS

Chris Goyal - ~~DTB~~ NES Mechanical

Bob Davis - NES Electrical

EPS - will review

inverted duty motors ordered Wednesday

Rotron blower motor 6-8 weeks, Friday 13th  
+ 5 days shipping

Baldor AS motor was available off self

They'll send me contact @ Rotron

EPS will do heat trace & get Pixie a letter for this

S.1 SVE - para graph 3 44" water vacuum

~~over~~

moisture separator - NES will certify  
the moisture separator to EPS then EPS will  
certify it to DTB & DEC



7/2/03

Chris Joyke

Conference call w/ NES + EPS

Bob Davis

Steven Rackmacher

Frank DeVita

One inverter duty motor in  
last Rotron motor due 7/31


Week of August 11, 2003



**MEETING MINUTES**

PROJECT: Franklin Cleaners Off-site (Site No. 1-30-050)  
D&B No. 1851

DATE: March 8, 2004

LOCATION: Conference Call 

ATTENDEES: Jeff Trad (NYSDEC)  
Frank DeVita (D&B)  
Robert Heling (D&B)  
Dale Braue (EP&S)  
Michele Swidowski (EP&S)

SUBJECT: Soil Vapor Extraction (SVE) System – Routine Operating Period  
Monthly SVE Progress Monitoring Reports

MAR 15 2004

1. Monthly SVE Progress Monitoring Report No. 1  
Reporting Period – October 22 through November 30, 2003

- a. Item 7 - Individual VOC and total VOCs extracted from each well and discharged to each carbon adsorption vessel

NYSDEC and D&B noted that the cumulative VOC mass calculations provided for each SVE well and, at the inlet and outlet of each carbon adsorption vessel, do not appear to incorporate system downtime. EP&S acknowledged and agreed that the calculations did not incorporate system downtime. EP&S agreed to modify the report accordingly.

b. Attachments

1) Progress Monitoring Forms

NYSDEC and D&B noted that SVE System Progress Monitoring Form for November 26, 2003 was incomplete. For instance, the SVE blower run-time was not recorded. Furthermore, total VOC concentrations were not provided at any of the required locations. NYSDEC and D&B stressed the importance of recording all required information during scheduled monitoring events to accurately monitor system operation and performance. EP&S acknowledged.



2) General Comments

D&B requested clarification with regard to determining when a carbon change out of the vapor carbon units would be required. EP&S indicated that this information could be found within the site specific Operation and Maintenance (O&M) Manual. D&B noted that the O&M manual simply provided instructions for performing a carbon change out and did not provide reasoning for determining when a carbon change out of the vapor carbon units would be required. EP&S acknowledged and agreed to provide this information within a revised O&M Manual.

2. Monthly SVE Progress Monitoring Report No. 2  
Reporting Period – December 1 through December 31, 2003

- a. Item 7 - Individual VOC and total VOCs extracted from each well and discharged to each carbon adsorption vessel

NYSDEC and D&B noted that the cumulative VOC mass calculations provided for each SVE well, and at the inlet and outlet of each carbon adsorption vessel, do not appear to incorporate system downtime. EP&S acknowledged and agreed that the calculations did not incorporate system downtime. EP&S agreed to modify the report accordingly.

- b. Attachments

1) Progress Monitoring Forms

NYSDEC and D&B noted that SVE System Progress Monitoring Form for December 10, 2003 was incomplete. For instance, the SVE blower run-time was not recorded. NYSDEC and D&B stressed the importance of recording all required information during scheduled monitoring events to accurately monitor system operation and performance. EP&S acknowledged.

2) Table 1 – Summary of Analytical Results

NYSDEC and D&B noted that analytical results were not available for air samples collected from each SVE well, and at the inlet and outlet of each carbon adsorption vessel, on November 22, 2003, due to laboratory instrument failure. However, neither NYSDEC nor D&B were ever notified of this failure. NYSDEC and D&B requested that EP&S provide proper notification in case of such event in the future. EP&S acknowledged.



3. Open Discussion

- a. EP&S requested a copy of analytical results for soil samples collected by D&B and analyzed by the NYSDEC laboratory, from the installation of soil vapor monitoring probes SVM-5 and SVM-6 on November 13, 2003. NYSDEC agreed to provide EP&S with the analytical results via e-mail.
- b. D&B noted that Routine Air Sparging Operating Period commenced on October 21, 2003; however, to date, EP&S has yet to submit monthly Air Sparge Progress Monitoring Reports for review. EP&S acknowledged and agreed to provide the required Air Sparge Progress Monitoring Reports by March 12, 2004.




edoc

**Dvirka and Bartilucci**  
CONSULTING ENGINEERS

**MEMORANDUM**

TO: Joesph Yavonditte, P.E.  
Jeffery Trad, P.E.  
Stephen Tauss  
Dale Braue  
John Pecori

FROM: Frank DeVita 

DATE: March 26, 2003

SUBJECT: Franklin Cleaners Site  
NYSDEC Contract No. D004184  
Site No. 1-30-050  
D&B No. 1851

Enclosed please find the minutes for the March 12, 2003 project status meeting.

FD(t)/ld  
Enclosure  
cc: T. Maher  
♦1851\FD03(A)\LTR-40.DOC(R01)





## MEETING MINUTES

Date: March 12, 2003

Location: Franklin Cleaners Site  
206-208 South Franklin Street  
Hempstead, New York

Attendees: Jeffrey Trad (NYSDEC)  
Joesph Yavonditte (NYSDEC)  
Frank DeVita (Dvirka and Bartilucci)  
Stephen Tauss (Dvirka and Bartilucci)  
Dale Braue (EP&S)  
John Pecori (EP&S)

Subject: Project Status Meeting

1. Discussions at the meeting focused on items as listed on the attached meeting agenda.
2. Conversations were held concerning the progress schedule as submitted by EP&S on February 26, 2003. Listed below are specific items addressed:
  - a. EP&S confirmed that all Work is being performed on schedule.
  - b. EP&S indicated that asphalt activities scheduled for March 17, 2003, might be delayed due to inclement weather.
  - c. EP&S indicated that system electrical utility installations would not occur on March 14, 2003, as scheduled, but rather at the time of system installation, which is scheduled for week ending May 9, 2003. The NYSDEC and D&B noted the change and had no objections.
  - d. EP&S indicated that fencing on the southern boundary of the project site would be finalized upon the completion of the system installation to allow for access throughout construction. While the NYSDEC and D&B had no objections, D&B stated that southern boundary is to be secured in the scheduled downtime during the month of April.
  - e. D&B noted that the submitted progress schedule did not provide for overlapping of the Air Sparge Performance Test with the SVE Performance Test as specified in Section 00007 (4.2)(D) of the Standard Specifications. EP&S acknowledged this and agreed to adjust the schedule accordingly to comply with the specified requirement.



3. Conversations were held concerning all work completed to date. Listed below are specific items addressed:
  - a. EP&S confirmed that construction completion, with the exception of the system installation and associated electrical utility installation, would be completed by March 17, 2003, as scheduled, provided there are no delays due to inclement weather.
2. Conversations were held concerning the Status of Submittals. Listed below are specific items addressed:
  - a. D&B noted that all submittals provided to date have been stamped "approved" or "approved as noted" with the exception of the Process and Engineering Descriptions Plan.
  - b. EP&S was notified that resubmittal of the Process and Engineering Descriptions Plan is still outstanding. EP&S indicated that their subcontractor (NES) has still not finalized the plan. D&B requested that EP&S provide an update of the Process and Engineering Descriptions Plan submittal status by March 14, 2003.
  - c. EP&S was notified of remaining submittals required throughout the construction and operation phase. Discussions included, but were not limited to, submission of an Operation and Maintenance Manual, copies of waste manifests, soil boring logs, well construction logs, and as-built record drawings.
3. Conversations were held concerning the results of the real-time air monitoring conducted to date. Listed below are specific topics addressed:
  - a. EP&S indicated that real-time air monitoring results during construction activities have been for the most part, below designated action levels with the exception of carbon monoxide levels during well installation activities in the basement.
  - b. EP&S indicated that total particulate levels during construction have been below designated action levels.
  - c. EP&S agreed to provide copies of real-time air monitoring logs completed to date, with the exception of data taken on March 11, 2003, due to unit malfunction during data extraction resulting in the loss of data for that day.
4. An open discussion was held prior to the closing of the meeting to allow for all parties to express specific concerns/requests not covered in the previous agenda items. Listed below are specific topics addressed:
  - a. EP&S indicated that the additional awning to be installed as a change order item would occur during week ending March 21, 2003. EP&S requested the absence of the Health and Safety Officer during this activity. As this work is non-intrusive, the NYSDEC had no objections.



- b. EP&S agreed to provide a detail for review illustrating proposed drywell restoration activities by Friday, March 14, 2003. EP&S indicated that a total of 1/3 cubic yard of gravel would be required for the drywell restoration. D&B expressed the possibility of obtaining the required gravel from the excess material delivered during drywell installation activities at the off-site groundwater extraction system installation. As the NYSDEC had no objections, D&B will advise if the material is available.



**Franklin Cleaners Site  
On-Site Construction Meeting Agenda  
March 12, 2003**

1. Schedule
2. Status of Submittals
3. Review of all work completed to date
4. Review of real-time air monitoring results to date
5. Open Discussion