DATA CHEM LABORATORIES
A SORENSON COMPANY

ORIGINAL

SDMS DocID 2241258

Submitted To: (b) (4) [redacted]
Tetra Tech EM Inc.
107 Chelsea Parkway
Boothwyn, PA 19061

Reference Data:	**Metals**
Client Sample No.:	L-4A through U3
P.O. No.:	Not Available
Project Name:	03-0007-L05
Project No.:	07003
Sample Type:	Filter
Method Reference:	7300
DCL Set ID No.:	00-S-4214
DCL Sample ID No.:	00-24229 through 00-24240
Sample Receipt Date:	8/4/2000
Preparation Date:	08/05/00
Analysis Date:	08/05/00

The samples were prepared and analyzed in accordance with NIOSH method 7300 using a Perkin Elmer 3000XL (ICP) purged spectrometer. Calibration verification was performed using a CCV (every 10 samples and at end) and an ICV (at beginning of run).

Results relate only to the items tested.

The results are in the enclosed data table.

This report shall not be reproduced except in full, without the written approval of the laboratory.

(b) (4) [redacted]
Analyst

(b) (4) [redacted]
Reviewer

CINCINNATI OFFICE
4388 GLENDALE-MILFORD ROAD
CINCINNATI, OHIO 45242-3706
513 733-5336, FAX 513 733-5347

WEST COAST OFFICE
11 SANTA YORMA COURT
NOVATO, CALIFORNIA 94945
800 280-8071, FAX 415 893-9469

ORIGINAL

Results
µg/Filter

Client #	L-4A	L-4B	O-4A	O-4B	D4	
DCL #	00-24229	00-24230	00-24231	00-24232	00-24233	**LOD**
Arsenic	ND	ND	ND	ND	ND	**1.**
Chromium	ND	ND	ND	ND	ND	**1.**
Lead	ND	ND	ND	ND	ND	**1.**

ND indicates the value is below the limit of detection (LOD)

Results
µg/Filter

Client #	U4	L-3A	L-3B	O-3A	O-3B	
DCL #	00-24234	00-24235	00-24236	00-24237	00-24238	**LOD**
Arsenic	ND	ND	ND	ND	ND	**1.**
Chromium	ND	ND	ND	ND	ND	**1.**
Lead	ND	ND	**1.**	ND	ND	**1.**

ND indicates the value is below the limit of detection (LOD)

Results
µg/Filter

Client #	D3	U3		% Recovery		
DCL #	00-24239	00-24240	Prep Blank	QC 10689		**LOD**
Arsenic	ND	ND	ND	93.		**1.**
Chromium	ND	ND	ND	106.		**1.**
Lead	ND	ND	ND	98.		**1.**

ND indicates the value is below the limit of detection (LOD)

(b) (4) [redacted]

Analyst

(b) (4) [redacted]

Reviewer

Results
mg/m^3

Client #	L-4A	L-4B	O-4A	O-4B	D4
DCL #	00-24229	00-24230	00-24231	00-24232	00-24233
Volume (L)	757.25	431.48	733.73	463.71	1233.00
Arsenic	<0.001	<0.002	<0.001	<0.002	<0.0008
Chromium	<0.001	<0.002	<0.001	<0.002	<0.0008
Lead	<0.001	<0.002	<0.001	<0.002	<0.0008

Results
mg/m^3

Client #	U4	L-3A	L-3B	O-3A	O-3B
DCL #	00-24234	00-24235	00-24236	00-24237	00-24238
Volume (L)	1210.00	680.0	488.8	696.0	583.9
Arsenic	<0.0008	<0.001	<0.002	<0.001	<0.002
Chromium	<0.0008	<0.001	<0.002	<0.001	<0.002
Lead	<0.0008	<0.001	<0.002	<0.001	<0.002

Results
mg/m^3

Client #	D3	U3			
DCL #	00-24239	00-24240			
Volume (L)	1160.5	1060.0			
Arsenic	<0.0009	<0.0009			
Chromium	<0.0009	<0.0009			
Lead	<0.0009	<0.0009			

(b) (4) [redacted]
Analyst

(b) (4) [redacted]
Reviewer

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

00-S-4214

CHAIN OF CUSTODY RECORD

REGION 3
Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 19106

PROJ. NO.: Ø7ØØ3
PROJECT NAME: Ø3-ØØ7-LØ5
SAMPLERS: (Signature) (b) (4) [redacted]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	As, Cr, Pb (NIOSH 7300)	00-	REMARKS
L-4A	8/2/00			X	Laborer - Morning	1	X	24229	757.25 liters
L-4B	8/2/00			X	Laborer - Afternoon	1	X	24230	431.48 liters
O-4A	8/2/00			X	Operator - Morning	1	X	24231	733.73 liters
O-4B	8/2/00			X	Operator - Afternoon	1	X	24232	463.71 liters
D4	8/2/00			X	Downwind	1	X	24233	1,233.00 liters
U4	8/2/00			X	Upwind	1	X	24234	1,210.00 liters
L-3A	7/28/00			X	Labor - Morn	1	X	24235	680.0 liters
L-3B	7/28/00			X	Labor - Aft	1	X	24236	488.8 liters
O-3A	7/28/00			X	Oper - Morn	1	X	24237	696.0 liters
O-3B	7/28/00			X	Oper - Aft	1	X	24238	583.9 liters
D3	7/28/00			X	Downwind	1	X	24239	1,160.5 liters
U3	7/28/00			X	Upwind	1	X	24240	1,060.0 liters

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
(b) (4) [redacted]	8/2/00 1600				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

ORIGINAL

2-24570

DATACHEM LABORATORIES QC FILTER SPIKE

ORIGINAL

Date: 8/5/00 Set ID: 00-S-4214,4219

Method #: Mod NIOSH 7300 Sheet and Control Limits updated 4/4/00

Analyst: CB

Matrix Spike #: QC- 10689 Matrix Spike Dup. #: QC- 10690 (enter # only)

Matrix (Wipe or Filter): FILTER Prep Method:

	Amount Found (ug) LCS	Amount Found (ug) LCS Dup	Amount Added (ug)	% LCS Recovery	%LCS Dup. Recovery	LCS Pass/Fail	LCSDup. Pass/Fail	Control Limits
Ag:			10					80-102
Al:			10					65-112
As:	9.3	9.41	10	93.0	94.1	Pass	Pass	76-102
B:			10					39-133
Ba:			10					83-111
Be:			10					78-100
Ca:			10					109-199
Cd:			10					76-107
Co:			10					83-106
Cr:	10.6	10.6	10	106.0	106.0	Pass	Pass	87-110
Cu:			10					81-114
Fe:			10					45-140
K:			100					62-118
Mg:			10					79-110
Mn:			10					82-108
Mo:			10					87-104
Na:			10					50-150
Ni:			10					78-109
Pb:	9.78	9.81	10	97.8	98.1	Pass	Pass	84-103
Sb:			10					47-113
Se:			10					70-106
Ti:			10					84-102
Tl:			10					41-123
V:			10					83-105
Zn:			10					59-136

Reviewer: (b) (4) [redacted] 8/7/00

Notes::

SET ID	SAMPLE #'S	CLIENT	METHOD
00-S-4214	00-24229-40	Tetratech	7300
00-S-4219	00-24260-64	Earth Safety	7300

Prepared for analysis by NIOSH 7300
1mL HNO_3 Mallinkrodt lot 6623 N 35058
1mL HCL Mallinkrodt lot 5587 NUIA07
a reagent blank, filter blank and QC 10689 + 90
were prepared with batch
spiking 100ml of QC 10198 + 99
Hot block digested for 1 hour
taken to final volume of 20 mL with Type II DI H_2O

8/5/00

Continued on Page

Read and Understood By

(b) (4) [redacted]
Signed
8/5/00
Date

(b) (4) [redacted]
Signed
8/5/00
Date

TEST REPORT
Page 1 of 3
8/7/00

DATA CHEM LABORATORIES
A LORENSON COMPANY

Submitted To: (b) (4) [redacted]
Tetra Tech EM Inc.
107 Chelsea Parkway
Boothwyn, PA 19061

Reference Data:	**Metals**
Client Sample No.:	L-4A through U3
P.O. No.:	Not Available
Project Name:	03-0007-L05
Project No.:	07003
Sample Type:	Filter
Method Reference:	7300
DCL Set ID No.:	00-S-4214
DCL Sample ID No.:	00-24229 through 00-24240
Sample Receipt Date:	8/4/2000
Preparation Date:	08/05/00
Analysis Date:	08/05/00

The samples were prepared and analyzed in accordance with NIOSH method 7300 using a Perkin Elmer 3000XL (ICP) purged spectrometer. Calibration verification was performed using a CCV (every 10 samples and at end) and an ICV (at beginning of run).

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(b) (4) [redacted]
Analyst

(b) (4) [redacted]
Reviewer

Original

TEST REPORT
Page 2 of 3
00-S-4214

Results
µg/Filter

Client #	L-4A	L-4B	O-4A	O-4B	D4	
DCL #	00-24229	00-24230	00-24231	00-24232	00-24233	LOD
Arsenic	ND	ND	ND	ND	ND	1.
Chromium	ND	ND	ND	ND	ND	1.
Lead	ND	ND	ND	ND	ND	1.

ND indicates the value is below the limit of detection (LOD)

Results
µg/Filter

Client #	U4	L-3A	L-3B	O-3A	O-3B	
DCL #	00-24234	00-24235	00-24236	00-24237	00-24238	LOD
Arsenic	ND	ND	ND	ND	ND	1.
Chromium	ND	ND	ND	ND	ND	1.
Lead	ND	ND	1.	ND	ND	1.

ND indicates the value is below the limit of detection (LOD)

Results
µg/Filter

Client #	D3	U3		% Recovery		
DCL #	00-24239	00-24240	Prep Blank	QC 10689		LOD
Arsenic	ND	ND	ND	93.		1.
Chromium	ND	ND	ND	106.		1.
Lead	ND	ND	ND	98.		1.

ND indicates the value is below the limit of detection (LOD)

(b) (4) [redacted]
Analyst

(b) (4) [redacted]
Reviewer

ORIGINAL

TEST REPORT
Page 3 of 3
00-S-4214

Results
mg/m^3

Client #	L-4A	L-4B	O-4A	O-4B	D4
DCL #	00-24229	00-24230	00-24231	00-24232	00-24233
Volume (L)	757.25	431.48	733.73	463.71	1233.00
Arsenic	<0.001	<0.002	<0.001	<0.002	<0.0008
Chromium	<0.001	<0.002	<0.001	<0.002	<0.0008
Lead	<0.001	<0.002	<0.001	<0.002	<0.0008

Results
mg/m^3

Client #	U4	L-3A	L-3B	O-3A	O-3B
DCL #	00-24234	00-24235	00-24236	00-24237	00-24238
Volume (L)	1210.00	680.0	488.8	696.0	583.9
Arsenic	<0.0008	<0.001	<0.002	<0.001	<0.002
Chromium	<0.0008	<0.001	<0.002	<0.001	<0.002
Lead	<0.0008	<0.001	<0.002	<0.001	<0.002

Results
mg/m^3

Client #	D3	U3			
DCL #	00-24239	00-24240			
Volume (L)	1160.5	1060.0			
Arsenic	<0.0009	<0.0009			
Chromium	<0.0009	<0.0009			
Lead	<0.0009	<0.0009			

(b) (4) [redacted]
Analyst

(b) (4) [redacted]
Reviewer

Office of Enforcement

UU-S-4214

CHAIN OF CUSTODY RECORD

REGION 3
Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 19106

PROJ. NO.: 07103
PROJECT NAME: 03-007-L05
SAMPLERS: (Signature) (b) (4) [redacted]

STA NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	As, Cr, Pb (NIOSH 7300)						REMARKS
L-4A	8/2/00			X	Laborer - Morning	1	X		2	4	2	9	757.25 liters
L-4B	8/2/00			X	Laborer - Afternoon	1	X		2	4	2	30	431.48 liters
O-4A	8/2/00			X	Operator - Morning	1	X		2	4	2	31	733.73 liters
O-4B	8/2/00			X	Operator - Afternoon	1	X		2	4	2	32	463.71 liters
D4	8/2/00			X	Downwind	1	X		2	4	2	33	1,233.00 liters
U4	8/2/00			X	Upwind	1	X		2	4	2	34	1,210.00 liters
L-3A	7/28/00			X	Labor - Morn	1	X		2	4	2	35	680.0 liters
L-3B	7/28/00			X	Labor - Aft	1	X		2	4	2	36	488.8 liters
O-3A	7/28/00			X	Oper - Morn	1	X		2	4	2	37	696.0 liters
O-3B	7/28/00			X	Oper - Aft	1	X		2	4	2	38	583.9 liters
D3	7/28/00			X	Downwind	1	X		2	4	2	39	1,160.5 liters
U3	7/28/00			X	Upwind	1	X		2	4	2	40	1,060.0 liters

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
(b) (4) [redacted]	8/2/00 1600				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

ORIGINAL

FedEx USA Airbill

FedEx Tracking Number 8221 4879 2519

Form I.D. No. 0215

SPH43

Sender's

1 From *Please print and press hard.*

Date 8/2/00

Sender's FedEx Account Number 2551-4203-8

Sender's Name (b) (4) [redacted]

Phone (610) 485-6410

Company TETRA TECH EM INC

Address 107 CHELSEA PKWY

Dept./Floor/Suite/Room

City MARCUS HOOK State PA ZIP 19061

2 Your Internal Billing Reference First 24 characters will appear on invoice. G90031R0007003

3 To Recipient's Name (b) (4) [redacted]

Phone (513) 733-5336

Company DATACHEM

Address 4388 Glendale-Milford Rd.

To "HOLD" at FedEx location, print FedEx address.

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City Cincinnati State OH ZIP 45242

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By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

0149302180

4a Express Package Service *Packages up t*

Delivery commitment may be later in

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Ove — Earliest next business delivery to select loca
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Envelope/Letter Rate Minimum charge: On

4b Express Freight Service *Packages ove*

Delivery commitment may be later in

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Fre — Third business day

* Call for Confirmation: _____

5 Packaging * Declared val

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [X] Other Pkg. — Includes FedEx Box, F Tube, and customer p

6 Special Handling Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Sa at FedEx L — Available for I Overnight and to select loca

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 _____ x _____
- [ ] Cargo Aircraft Onl

Dangerous Goods cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [X] Third Party
- [ ] Credit Card
- [ ] Casl

FedEx Acct. No. Credit Card No. 1822-3292-0 Exp. Date

Total Packages	Total Weight	Total Declared Value†
		$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx U:

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

402

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Air Monitoring Worksheet

ORIGINAL

Date of sampling = 8/2/00

Pump #	Sample ID#	Location	Pre-Cal 1	Pre-Cal 2	Pre-Cal 3	Pre-Cal avg.	Start Time	Stop Time	Post-Cal 1	Post-Cal 2	Post-Cal 3	Post-Cal avg.	Total Time	Average (Lpm)	TWA	
13840	L-4A	Labor-M	2.683	2.668	2.679	2.677	0737	1224	2668	2712	2691	2690	287	2.6835	.13	757.2495
13840	L-4B	Labor-A	2.638	2708	2700	2.681	1241	1522	2.6668	2.679	2.691	2.679	161	2.680	.12	431.48
13842	O-4A	Op-Mor	2.477	2.457	2.457	2.464	0738	1224	2708	2656	2636	2.667	286	2.6655	.12	733.73
13842	O-4B	Op-Aft	2614	2640	2621	2.625	1240	1532	2.937	2.683	2.687	2.769	172	2.696	.30	463.71
13843	D4	Down	2787	2766	2.749	2.767	0750	1520	2.672	2.745	2.724	2.714	450	2.740	.05	1233.00
13841	U4	Up	2.716	2.757	2.732	2.735	0749	1515	2.640	2.720	2.716	2.692	446	2.713	~~.05~~	N/A 1210

Pump #	Sample ID#	Location	Pre-Cal 1	Pre-Cal 2	Pre-Cal 3	Pre-Cal avg.	Start Time	Stop Time	Post-Cal 1	Post-Cal 2	Post-Cal 3	Post-Cal avg.	Total Time	Average (Lpm)	TWA

Air Sampling Data Sheet

ORIGINAL

Date: 8/2/00 **Sample ID No.:** L-4A

Time: 1430 **Pump No.:** 13840

Site Name: 12th St. Landfill

Pump Type

- ☐ DuPont Alpha 1
- ☒ Gillian HFS-113

Particulate Collection Devices

- ☒ 37mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette
- ☐ Cyclone
- ☐ Cascade

Particulate Collection Media

- ☐ Cellulose*
- ☒ MCE (.8 µm)*
- ☐ MCE (.45 µm)*
- ☐ MCE (1.2 µm)*
- ☐ PVC (.8 µm)*
- ☐ PVC (.45 µm)*
- ☐ PVC (5.0 µm)*
- ☐ PTFE (.8 µm)*
- ☐ PTFE (.45 µm)*
- ☐ PTFE (.5 µm)*
- ☐ PTFE (1.0 µm)*
- ☐ PTFE (2.0 µm)*
- ☐ PTFE (5.0 µm)*
- ☐ Glass Fiber (1.0 µm)
- ☐ VAC (.8 µm)
- ☐ Silver membrane (.45 µm)
- ☐ Silver membrane (.8 µm)

*** Requires Support Pad**

Gas / Vapor Collection Devices

- ☐ Charcoal Sorbent Tube
- ☐ Chromosorb Sorbent Tube
- ☐ Porapak-T Sorbent Tube
- ☐ Cryogenic Trap
- ☐ Tenax Sorbent Tube
- ☐ Anasorb Sorbent Tube
- ☐ Hopcalite Sorbent Tube
- ☐ Impinger
- ☐ XAD Sorbent Tube
- ☐ Silica Gel Sorbent Tube
- ☐ Tedlar Bag
- ☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	2.683 lpm	2.668 lpm	2.679 lpm	2.677 lpm	
Post-Cal	2.668 lpm	2.712 lpm	2.691 lpm	2.690 lpm	
Pre-Post					2.6835 lpm (V)

Sample Start Time: 0737 **Sample Stop Time:** 1224

Total Time Sampled: 287 minutes **(TIME)**

Volume Calculations

287 **(TIME)** x 2.6835 **(V)** = 757.25 liters **(VOLUME SAMPLED)**

Air Sampling Data Sheet

ORIGINAL

Date: 8/2/00

Sample ID No.: L-4B

Time: 1530

Pump No.: 13840

Site Name: 12th St. Landfill

Pump Type

- ☐ DuPont Alpha 1
- ☒ Gillian HFS-113

Particulate Collection Devices

- ☒ 37mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette
- ☐ Cyclone
- ☐ Cascade

Particulate Collection Media

- ☐ Cellulose*
- ☒ MCE (.8 µm)*
- ☐ MCE (.45 µm)*
- ☐ MCE (1.2 µm)*
- ☐ PVC (.8 µm)*
- ☐ PVC (.45 µm)*
- ☐ PVC (5.0 µm)*
- ☐ PTFE (.8 µm)*
- ☐ PTFE (.45 µm)*
- ☐ PTFE (.5 µm)*
- ☐ PTFE (1.0 µm)*
- ☐ PTFE (2.0 µm)*
- ☐ PTFE (5.0 µm)*
- ☐ Glass Fiber (1.0 µm)
- ☐ VAC (.8 µm)
- ☐ Silver membrane (.45 µm)
- ☐ Silver membrane (.8 µm)

* Requires Support Pad

Gas / Vapor Collection Devices

- ☐ Charcoal Sorbent Tube
- ☐ Chromosorb Sorbent Tube
- ☐ Porapak-T Sorbent Tube
- ☐ Cryogenic Trap
- ☐ Tenax Sorbent Tube
- ☐ Anasorb Sorbent Tube
- ☐ Hopcalite Sorbent Tube
- ☐ Impinger
- ☐ XAD Sorbent Tube
- ☐ Silica Gel Sorbent Tube
- ☐ Tedlar Bag
- ☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	2.636 lpm	2.708 lpm	2.700 lpm	2.681 lpm	
	RHH	RHH	RHH	RHH	
Post-Cal	~~2.614~~ lpm	~~2.640~~ lpm	~~2.621~~ lpm	~~2.625~~ lpm	
Pre-Post					2.680 lpm (V)

Sample Start Time: 1241

Sample Stop Time: 1522

Total Time Sampled: 161 minutes (TIME)

Volume Calculations

161 (TIME) x 2.680 (V) = 431.48 liters (VOLUME SAMPLED)

Air Sampling Data Sheet

ORIGINAL

Date: 8/2/00 **Sample ID No.:** 0-4A

Time: 1430 **Pump No.:** 13842

Site Name: 12th St. Landfill

Pump Type

- ☐ DuPont Alpha 1
- ☒ Gillian HFS-113

Particulate Collection Devices

- ☒ 37mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette
- ☐ Cyclone
- ☐ Cascade

Particulate Collection Media

- ☐ Cellulose*
- ☒ MCE (.8 µm)*
- ☐ MCE (.45 µm)*
- ☐ MCE (1.2 µm)*
- ☐ PVC (.8 µm)*
- ☐ PVC (.45 µm)*
- ☐ PVC (5.0 µm)*
- ☐ PTFE (.8 µm)*
- ☐ PTFE (.45 µm)*
- ☐ PTFE (.5 µm)*
- ☐ PTFE (1.0 µm)*
- ☐ PTFE (2.0 µm)*
- ☐ PTFE (5.0 µm)*
- ☐ Glass Fiber (1.0 µm)
- ☐ VAC (.8 µm)
- ☐ Silver membrane (.45 µm)
- ☐ Silver membrane (.8 µm)

*** Requires Support Pad**

Gas / Vapor Collection Devices

- ☐ Charcoal Sorbent Tube
- ☐ Chromosorb Sorbent Tube
- ☐ Porapak-T Sorbent Tube
- ☐ Cryogenic Trap
- ☐ Tenax Sorbent Tube
- ☐ Anasorb Sorbent Tube
- ☐ Hopcalite Sorbent Tube
- ☐ Impinger
- ☐ XAD Sorbent Tube
- ☐ Silica Gel Sorbent Tube
- ☐ Tedlar Bag
- ☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	2.477 lpm	2.457 lpm	2.457 lpm	2.464 lpm	
Post-Cal	2.708 lpm	2.656 lpm	2.636 lpm	2.667 lpm	
Pre-Post					2.5655 lpm (V)

Sample Start Time: 0738 **Sample Stop Time:** 1224

Total Time Sampled: 286 minutes **(TIME)**

Volume Calculations

286 **(TIME)** x 2.5655 **(V)** = 733.73 liters **(VOLUME SAMPLED)**

ORIGINAL

Air Sampling Data Sheet

Date: 8/2/00 **Sample ID No.:** O-4B

Time: 1530 **Pump No.:** 13842

Site Name: 12th St. Landfill

Pump Type

- ☐ DuPont Alpha 1
- ☒ Gillian HFS-113

Particulate Collection Devices

- ☒ 37mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette
- ☐ Cyclone
- ☐ Cascade

Particulate Collection Media

- ☐ Cellulose*
- ☒ MCE (.8 µm)*
- ☐ MCE (.45 µm)*
- ☐ MCE (1.2 µm)*
- ☐ PVC (.8 µm)*
- ☐ PVC (.45 µm)*
- ☐ PVC (5.0 µm)*
- ☐ PTFE (.8 µm)*
- ☐ PTFE (.45 µm)*
- ☐ PTFE (.5 µm)*
- ☐ PTFE (1.0 µm)*
- ☐ PTFE (2.0 µm)*
- ☐ PTFE (5.0 µm)*
- ☐ Glass Fiber (1.0 µm)
- ☐ VAC (.8 µm)
- ☐ Silver membrane (.45 µm)
- ☐ Silver membrane (.8 µm)

*** Requires Support Pad**

Gas / Vapor Collection Devices

- ☐ Charcoal Sorbent Tube
- ☐ Chromosorb Sorbent Tube
- ☐ Porapak-T Sorbent Tube
- ☐ Cryogenic Trap
- ☐ Tenax Sorbent Tube
- ☐ Anasorb Sorbent Tube
- ☐ Hopcalite Sorbent Tube
- ☐ Impinger
- ☐ XAD Sorbent Tube
- ☐ Silica Gel Sorbent Tube
- ☐ Tedlar Bag
- ☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	~~2.644~~ lpm	2.640 lpm	2.621 lpm	2.625 lpm	
	2.614				
Post-Cal	2.937 lpm	2.683 lpm	2.687 lpm	2.769 lpm	
Pre-Post					2.696 lpm (V)

Sample Start Time: 1240 **Sample Stop Time:** 1532

Total Time Sampled: 172 minutes **(TIME)**

Volume Calculations

172 **(TIME)** x 2.696 **(V)** = 463.71 liters **(VOLUME SAMPLED)**

Air Sampling Data Sheet

Date: 8/2/00 **Sample ID No.:** D-4

Time: 1530 **Pump No.:** 13843

Site Name: 12th St. Landfill

Pump Type

- ☐ DuPont Alpha 1
- ☒ Gillian HFS-113

Particulate Collection Devices

- ☒ 37mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette
- ☐ Cyclone
- ☐ Cascade

Particulate Collection Media

- ☐ Cellulose*
- ☒ MCE (.8 µm)*
- ☐ MCE (.45 µm)*
- ☐ MCE (1.2 µm)*
- ☐ PVC (.8 µm)*
- ☐ PVC (.45 µm)*
- ☐ PVC (5.0 µm)*
- ☐ PTFE (.8 µm)*
- ☐ PTFE (.45 µm)*
- ☐ PTFE (.5 µm)*
- ☐ PTFE (1.0 µm)*
- ☐ PTFE (2.0 µm)*
- ☐ PTFE (5.0 µm)*
- ☐ Glass Fiber (1.0 µm)
- ☐ VAC (.8 µm)
- ☐ Silver membrane (.45 µm)
- ☐ Silver membrane (.8 µm)

*** Requires Support Pad**

Gas / Vapor Collection Devices

- ☐ Charcoal Sorbent Tube
- ☐ Chromosorb Sorbent Tube
- ☐ Porapak-T Sorbent Tube
- ☐ Cryogenic Trap
- ☐ Tenax Sorbent Tube
- ☐ Anasorb Sorbent Tube
- ☐ Hopcalite Sorbent Tube
- ☐ Impinger
- ☐ XAD Sorbent Tube
- ☐ Silica Gel Sorbent Tube
- ☐ Tedlar Bag
- ☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	2.787 lpm	2.766 lpm	2.749 lpm	2.767 lpm	
Post-Cal	2.672 lpm	2.745 lpm	2.724 lpm	2.714 lpm	
Pre-Post					2.740 lpm (V)

Sample Start Time: 0750 **Sample Stop Time:** 1520

Total Time Sampled: 450 minutes **(TIME)**

Volume Calculations

450 **(TIME)** x 2.740 **(V)** = 1,233.0 liters **(VOLUME SAMPLED)**

Air Sampling Data Sheet

ORIGINAL

Date: 8/2/00 **Sample ID No.:** U-4

Time: 1530 **Pump No.:** 13841

Site Name: 12th St. Landfill

Pump Type

- ☐ DuPont Alpha 1
- ☒ Gillian HFS-113

Particulate Collection Devices

- ☒ 37mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette
- ☐ Cyclone
- ☐ Cascade

Particulate Collection Media

- ☐ Cellulose*
- ☒ MCE (.8 µm)*
- ☐ MCE (.45 µm)*
- ☐ MCE (1.2 µm)*
- ☐ PVC (.8 µm)*
- ☐ PVC (.45 µm)*
- ☐ PVC (5.0 µm)*
- ☐ PTFE (.8 µm)*
- ☐ PTFE (.45 µm)*
- ☐ PTFE (.5 µm)*
- ☐ PTFE (1.0 µm)*
- ☐ PTFE (2.0 µm)*
- ☐ PTFE (5.0 µm)*
- ☐ Glass Fiber (1.0 µm)
- ☐ VAC (.8 µm)
- ☐ Silver membrane (.45 µm)
- ☐ Silver membrane (.8 µm)

*** Requires Support Pad**

Gas / Vapor Collection Devices

- ☐ Charcoal Sorbent Tube
- ☐ Chromosorb Sorbent Tube
- ☐ Porapak-T Sorbent Tube
- ☐ Cryogenic Trap
- ☐ Tenax Sorbent Tube
- ☐ Anasorb Sorbent Tube
- ☐ Hopcalite Sorbent Tube
- ☐ Impinger
- ☐ XAD Sorbent Tube
- ☐ Silica Gel Sorbent Tube
- ☐ Tedlar Bag
- ☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	2.716 lpm	2.757 lpm	2.732 lpm	2.735 lpm	
Post-Cal	2.640 lpm	2.720 lpm	2.716 lpm	2.692 lpm	
Pre-Post					2.713 lpm (V)

Sample Start Time: 0749 **Sample Stop Time:** _____

Total Time Sampled: 446 minutes **(TIME)**

Volume Calculations

446 **(TIME)** x 2.713 **(V)** = 1,210.0 liters **(VOLUME SAMPLED)**

Air Monitoring Worksheet

ORIGINAL

Date of sampling = 7/28/00

Pump #	Sample ID#	Location	Pre-Cal 1	Pre-Cal 2	Pre-Cal 3	Pre-Cal avg.	Start Time	Stop Time	Post-Cal 1	Post-Cal 2	Post-Cal 3	Post-Cal avg.	Total Time	Average (Lpm)	TWA	PDM #
13840	L-3A	Lab-Mix	2778	2804	2804	2795	0800	1209	2621	2708	2668	2.666	249	2.731	.12	6618
~~13843~~	~~L-3B~~	~~Lab-Aft~~	~~2813~~	~~2809~~	~~2813~~	~~2812~~										~~5824~~
13843	O-3A	Op-Mix	2813	2809	2813	2812	0800	1212	2691	2724	2720	2.712	252	2.762	.04	5824
13843	O-3B	Op-After	2822	2800	2796	2806	1217	~~1521~~ 1518	2664	2728	2716	2.703	212	2.754	.10	
13841	D3	Down	2728	2804	2809	2786	0811	1518	2672	2679	2668	2.673	427	2.7295	.01	6311
13842	U3	Up	2813	2809	2791	2804	~0805	1521	3045	2636	2644	2.775	380	2.7895	.00	6327

Pump #	Sample ID#	Location	Pre-Cal 1	Pre-Cal 2	Pre-Cal 3	Pre-Cal avg.	Start Time	Stop Time	Post-Cal 1	Post-Cal 2	Post-Cal 3	Post-Cal avg.	Total Time	Average (Lpm)	TWA
13840	L-3B	Lab-Aft	2664	2664	2656	2661	1218	1521	2679	2695	2668	2.681	183	2.671	.28

Air Sampling Data Sheet

Date: 7/28/00 **Sample ID No.:** L-3A

Time: 1530 **Pump No.:** 13840

Site Name: 12th St. Landfill

Pump Type

- ☐ DuPont Alpha 1
- ☒ Gillian HFS-113

Particulate Collection Devices

- ☒ 37mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette
- ☐ Cyclone
- ☐ Cascade

Particulate Collection Media

- ☐ Cellulose*
- ☒ MCE (.8 µm)*
- ☐ MCE (.45 µm)*
- ☐ MCE (1.2 µm)*
- ☐ PVC (.8 µm)*
- ☐ PVC (.45 µm)*
- ☐ PVC (5.0 µm)*
- ☐ PTFE (.8 µm)*
- ☐ PTFE (.45 µm)*
- ☐ PTFE (.5 µm)*
- ☐ PTFE (1.0 µm)*
- ☐ PTFE (2.0 µm)*
- ☐ PTFE (5.0 µm)*
- ☐ Glass Fiber (1.0 µm)
- ☐ VAC (.8 µm)
- ☐ Silver membrane (.45 µm)
- ☐ Silver membrane (.8 µm)

*** Requires Support Pad**

Gas / Vapor Collection Devices

- ☐ Charcoal Sorbent Tube
- ☐ Chromosorb Sorbent Tube
- ☐ Porapak-T Sorbent Tube
- ☐ Cryogenic Trap
- ☐ Tenax Sorbent Tube
- ☐ Anasorb Sorbent Tube
- ☐ Hopcalite Sorbent Tube
- ☐ Impinger
- ☐ XAD Sorbent Tube
- ☐ Silica Gel Sorbent Tube
- ☐ Tedlar Bag
- ☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	2.778 lpm	2.804 lpm	2.804 lpm	2.795 lpm	
Post-Cal	2.621 lpm	2.708 lpm	2.668 lpm	2.666 lpm	
Pre-Post					2.731 lpm (V)

Sample Start Time: 0800 **Sample Stop Time:** 1209

Total Time Sampled: 249 minutes **(TIME)**

Volume Calculations

249 **(TIME)** x ~~249~~ 2.731 **(V)** = 680.00 liters **(VOLUME SAMPLED)**

ORIGINAL

Air Sampling Data Sheet

Date: 7/28/00 **Sample ID No.:** O-3A

Time: 1530 **Pump No.:** 13843

Site Name: 12th St. Landfill

Pump Type

- ☐ DuPont Alpha 1
- ☒ Gillian HFS-113

Particulate Collection Devices

- ☒ 37mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette
- ☐ Cyclone
- ☐ Cascade

Particulate Collection Media

- ☐ Cellulose*
- ☒ MCE (.8 µm)*
- ☐ MCE (.45 µm)*
- ☐ MCE (1.2 µm)*
- ☐ PVC (.8 µm)*
- ☐ PVC (.45 µm)*
- ☐ PVC (5.0 µm)*
- ☐ PTFE (.8 µm)*
- ☐ PTFE (.45 µm)*
- ☐ PTFE (.5 µm)*
- ☐ PTFE (1.0 µm)*
- ☐ PTFE (2.0 µm)*
- ☐ PTFE (5.0 µm)*
- ☐ Glass Fiber (1.0 µm)
- ☐ VAC (.8 µm)
- ☐ Silver membrane (.45 µm)
- ☐ Silver membrane (.8 µm)

*** Requires Support Pad**

Gas / Vapor Collection Devices

- ☐ Charcoal Sorbent Tube
- ☐ Chromosorb Sorbent Tube
- ☐ Porapak-T Sorbent Tube
- ☐ Cryogenic Trap
- ☐ Tenax Sorbent Tube
- ☐ Anasorb Sorbent Tube
- ☐ Hopcalite Sorbent Tube
- ☐ Impinger
- ☐ XAD Sorbent Tube
- ☐ Silica Gel Sorbent Tube
- ☐ Tedlar Bag
- ☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	2809 lpm	2813 lpm	2813 lpm	2812 lpm	
Post-Cal	2691 lpm	2724 lpm	2720 lpm	2712 lpm	
Pre-Post					2.762 lpm (V)

Sample Start Time: 0800 **Sample Stop Time:** 1212

Total Time Sampled: 252 minutes **(TIME)**

Volume Calculations

252 **(TIME)** x 2.762 **(V)** = 696.00 liters **(VOLUME SAMPLED)**

ORIGINAL

Air Sampling Data Sheet

Date: 7/28/00 **Sample ID No.:** D3

Time: 1530 **Pump No.:** 13841

Site Name: 12th St. Landfill

Pump Type

- ☐ DuPont Alpha 1
- ☒ Gillian HFS-113

Particulate Collection Devices

- ☒ 37mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette
- ☐ Cyclone
- ☐ Cascade

Particulate Collection Media

- ☐ Cellulose*
- ☒ MCE (.8 µm)*
- ☐ MCE (.45 µm)*
- ☐ MCE (1.2 µm)*
- ☐ PVC (.8 µm)*
- ☐ PVC (.45 µm)*
- ☐ PVC (5.0 µm)*
- ☐ PTFE (.8 µm)*
- ☐ PTFE (.45 µm)*
- ☐ PTFE (.5 µm)*
- ☐ PTFE (1.0 µm)*
- ☐ PTFE (2.0 µm)*
- ☐ PTFE (5.0 µm)*
- ☐ Glass Fiber (1.0 µm)
- ☐ VAC (.8 µm)
- ☐ Silver membrane (.45 µm)
- ☐ Silver membrane (.8 µm)

*** Requires Support Pad**

Gas / Vapor Collection Devices

- ☐ Charcoal Sorbent Tube
- ☐ Chromosorb Sorbent Tube
- ☐ Porapak-T Sorbent Tube
- ☐ Cryogenic Trap
- ☐ Tenax Sorbent Tube
- ☐ Anasorb Sorbent Tube
- ☐ Hopcalite Sorbent Tube
- ☐ Impinger
- ☐ XAD Sorbent Tube
- ☐ Silica Gel Sorbent Tube
- ☐ Tedlar Bag
- ☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	2728 lpm	2804 lpm	2809 lpm	2786 lpm	
Post-Cal	2672 lpm	2679 lpm	2668 lpm	2673 lpm	
Pre-Post					lpm (V)

Sample Start Time: 0811 **Sample Stop Time:** 1518

Total Time Sampled: 427 minutes **(TIME)**

Volume Calculations

2.7295 **(TIME)** x 427 **(V)** = 1165.50 liters **(VOLUME SAMPLED)**

ORIGINAL

Air Sampling Data Sheet

Date: 7/28/00 **Sample ID No.:** U3

Time: 1530 **Pump No.:** 13842

Site Name: 12th St. Landfill

Pump Type

☐ DuPont Alpha 1 ☒ Gillian HFS-113

Particulate Collection Devices

☒ 37mm Polystyrene 3-piece Filter Cassette
☐ 25mm Polystyrene 3-piece Filter Cassette
☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette
☐ Cyclone
☐ Cascade

Particulate Collection Media

☐ Cellulose*
☒ MCE (.8 µm)*
☐ MCE (.45 µm)*
☐ MCE (1.2 µm)*
☐ PVC (.8 µm)*
☐ PVC (.45 µm)*
☐ PVC (5.0 µm)*
☐ PTFE (.8 µm)*
☐ PTFE (.45 µm)*
☐ PTFE (.5 µm)*
☐ PTFE (1.0 µm)*
☐ PTFE (2.0 µm)*
☐ PTFE (5.0 µm)*
☐ Glass Fiber (1.0 µm)
☐ VAC (.8 µm)
☐ Silver membrane (.45 µm)
☐ Silver membrane (.8 µm)

*** Requires Support Pad**

Gas / Vapor Collection Devices

☐ Charcoal Sorbent Tube
☐ Chromosorb Sorbent Tube
☐ Porapak-T Sorbent Tube
☐ Cryogenic Trap
☐ Tenax Sorbent Tube
☐ Anasorb Sorbent Tube
☐ Hopcalite Sorbent Tube
☐ Impinger
☐ XAD Sorbent Tube
☐ Silica Gel Sorbent Tube
☐ Tedlar Bag
☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	2813 lpm	2809 lpm	2791 lpm	2804 lpm	
Post-Cal	3045 lpm	2636 lpm	2644 lpm	2775 lpm	
Pre-Post					2.7895 lpm (V)

Sample Start Time: 0905 **Sample Stop Time:** 1521

Total Time Sampled: 380 minutes **(TIME)**

Volume Calculations

380 **(TIME)** x 2.7895 **(V)** = 1,060.01 liters **(VOLUME SAMPLED)**

ORIGINAL

Air Sampling Data Sheet

Date: 7/28 **Sample ID No.:** O-3B

Time: 1530 **Pump No.:** 13843

Site Name: 12th St. Landfill

Pump Type

- ☐ DuPont Alpha 1
- ☒ Gillian HFS-113

Particulate Collection Devices

- ☒ 37mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette
- ☐ Cyclone
- ☐ Cascade

Particulate Collection Media

- ☐ Cellulose*
- ☒ MCE (.8 µm)*
- ☐ MCE (.45 µm)*
- ☐ MCE (1.2 µm)*
- ☐ PVC (.8 µm)*
- ☐ PVC (.45 µm)*
- ☐ PVC (5.0 µm)*
- ☐ PTFE (.8 µm)*
- ☐ PTFE (.45 µm)*
- ☐ PTFE (.5 µm)*
- ☐ PTFE (1.0 µm)*
- ☐ PTFE (2.0 µm)*
- ☐ PTFE (5.0 µm)*
- ☐ Glass Fiber (1.0 µm)
- ☐ VAC (.8 µm)
- ☐ Silver membrane (.45 µm)
- ☐ Silver membrane (.8 µm)

*** Requires Support Pad**

Gas / Vapor Collection Devices

- ☐ Charcoal Sorbent Tube
- ☐ Chromosorb Sorbent Tube
- ☐ Porapak-T Sorbent Tube
- ☐ Cryogenic Trap
- ☐ Tenax Sorbent Tube
- ☐ Anasorb Sorbent Tube
- ☐ Hopcalite Sorbent Tube
- ☐ Impinger
- ☐ XAD Sorbent Tube
- ☐ Silica Gel Sorbent Tube
- ☐ Tedlar Bag
- ☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	2822 lpm	2800 lpm	2796 lpm	2806 lpm	
Post-Cal	2.664 lpm	2728 lpm	2716 lpm	2.703 lpm	
Pre-Post					2.754 lpm (V)

Sample Start Time: 1212 **Sample Stop Time:** ~~1521~~ 1547

Total Time Sampled: 212 minutes **(TIME)**

Volume Calculations

212 **(TIME)** x ~~2.704~~ 2.754 **(V)** = _____ liters **(VOLUME SAMPLED)**

Air Sampling Data Sheet

ORIGINAL

Date: 7/28/00 **Sample ID No.:** L-3B

Time: 1530 **Pump No.:** 13840

Site Name: 12th St. Landfill

Pump Type

- ☐ DuPont Alpha 1
- ☒ Gillian HFS-113

Particulate Collection Devices

- ☒ 37mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette
- ☐ Cyclone
- ☐ Cascade

Particulate Collection Media

- ☐ Cellulose*
- ☒ MCE (.8 µm)*
- ☐ MCE (.45 µm)*
- ☐ MCE (1.2 µm)*
- ☐ PVC (.8 µm)*
- ☐ PVC (.45 µm)*
- ☐ PVC (5.0 µm)*
- ☐ PTFE (.8 µm)*
- ☐ PTFE (.45 µm)*
- ☐ PTFE (.5 µm)*
- ☐ PTFE (1.0 µm)*
- ☐ PTFE (2.0 µm)*
- ☐ PTFE (5.0 µm)*
- ☐ Glass Fiber (1.0 µm)
- ☐ VAC (.8 µm)
- ☐ Silver membrane (.45 µm)
- ☐ Silver membrane (.8 µm)

*** Requires Support Pad**

Gas / Vapor Collection Devices

- ☐ Charcoal Sorbent Tube
- ☐ Chromosorb Sorbent Tube
- ☐ Porapak-T Sorbent Tube
- ☐ Cryogenic Trap
- ☐ Tenax Sorbent Tube
- ☐ Anasorb Sorbent Tube
- ☐ Hopcalite Sorbent Tube
- ☐ Impinger
- ☐ XAD Sorbent Tube
- ☐ Silica Gel Sorbent Tube
- ☐ Tedlar Bag
- ☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	2664 lpm	2664 lpm	2656 lpm	2661 lpm	
Post-Cal	2679 lpm	2695 lpm	2668 lpm	2.681 lpm	
Pre-Post					2.671 lpm (V)

Sample Start Time: 1218 **Sample Stop Time:** 1521

Total Time Sampled: 183 minutes **(TIME)**

Volume Calculations

183 **(TIME)** x 2.671 **(V)** = _____ liters **(VOLUME SAMPLED)**