Appendix B

Air Sampling Data Forms

Sample Shipping Information

Samples were placed in an oversized, sturdy box with packing material to fill voids and protect the samples during shipping. The sampling personnel then signed the chain-of-custody forms, and placed them in the box with the samples. Samples were shipped via Federal Express to the laboratory.

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AIR SAMPLING DATA FORM

Client: EPA Date: 2/28/03 Job Code:

Employee: SSN #: ~~13673~~ Job Title:

Work Description: Destroy DTC Device

Work Location: on floor next to DTC Device Exhaust

Respirators/PPE:

Controls:

Sample #: 3705-D-A-2/28-57 -58 Pump #: 13673 Media: MCEF HYDRAR

Calibration:
Pre: 153 cc/min 153.5 Post: 154 cc/min Time: On: 1006 86 Off: 1132 Volume: 13.20 L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: See main

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client: EPA Date: 2/28/03 Job Code:

Employee: SSN #: Job Title:

Work Description: Dextrite DTC Device

Work Location: On flow @ DTC device exhaust

Respirators/PPE:

Controls:

Sample #: 3705-D-A-2/28-59 -60 Pump #: 12709 Media: MCEF HYDRAR

Calibration: Pre 151 cc/min Post 152 cc/min Time: On 1036 Off 1132 Volume 13.03 L

151.5 86

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: Slow

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AIR SAMPLING DATA FORM

Client: EPA Date: 2/28/03 Job Code:

Employee: SSN #: Job Title:

Work Description: Dextrite DTC Denuve
Filter Drum Change when Drum Full

Work Location:

Respirators/PPE: Gloves Safety Glasses Tyvek Coveall

Controls:

Sample #: 1705-2-A-2/28-61 -62 Pump #: 1330 Media: MCEF HYDRAR

Calibration: Pre 252 cc/min Post 254 cc/min 253 Time: On 1119 Off 1132 Volume 3.29 L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: 13 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/24/03 Job Code

Employee SSN # Job Title

Work Description Background

Work Location North of containment in Warehouse on top of Air Cycle Bulb Crusher Boxed crate

Respirators/PPE

Controls

Sample # 3705-B-3/24/01 tube -02 filter Pump # 13684 Media Hydar MCEF

Calibration: Pre 162 cc/min Post 148 cc/min ~~155~~ 155 Time: On 7:58 Off 11:23 205 Volume 31.78 L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: 205 min

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AIR SAMPLING DATA FORM

Client: EPA Date: 3/24/03 Job Code:

Employee: SSN #: Job Title:

Work Description: Background

Work Location: East of containment in warehouse on top of boxes of bulbs

Respirators/PPE:

Controls:

Sample #: 3705-B-3/24-03 -04 Pump #: 800 885 Media: Hydar MCEF

Calibration:
Pre: 151 cc/min 136.5 Post: 122 cc/min ~~151~~ Time: On: 7:57 205 Off: 11:23 Volume: 27.98 L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: 208 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/24/03 Job Code

Employee Tad SSN # Job Title

Work Description Personal RTI

Work Location

Respirators/PPE Respirator, tyvek, safety goggles

Controls Jerome

Sample # 3705-R-A-3/24-05-06 Pump # 14959 Media MCEF Hydrex

Calibration:
Pre 166cc/min Post 166cc/min
163.5

Time:
On #1 10:45 Off 12:26 Volume 26.49L
#2 2:56 3:37
162

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m3		

COMMENTS: 175 min

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 3/24/03 Job Code

Employee Tad SSN # Job Title

Work Description Personal

Work Location

Respirators/PPE Respirator, tyvek, safety goggles

Controls Jerome

Sample # 3705-R-M 3/24-07 -08 Pump # 2018 Media MCEF Hydrar

Calibration:
Pre 152 cc/min Post 149 cc/min 150.5

Time:
On #1 10:45 #2 2.36 Off 12:26 3.37 Volume 24.38L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³	16.2	

COMMENTS: ~~175~~ min.

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 3/24/03 Job Code

Employee SSN # Job Title

Work Description Inside containment
Area sample on Fiber drum next to exhaust

Work Location -elevated

Respirators/PPE Respirators, tyvek, safety goggles

Controls Jerome

Sample # 3705-R-A-3/24-09-10 Pump # 12713 Media MCEF Hydrex

Calibration:
Pre 152 cc/min Post 160 cc/min
156

Time:
On #1 10:45 Off 12:26 Volume 25.27L
#2 2:36 3:37

Substance	OSHA PEL	Concentration 162	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: ~~175~~ min.

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AIR SAMPLING DATA FORM

Client EPA Date 3/24/03 Job Code

Employee SSN # Job Title

Work Description Inside containment
Area sample on fiber drum next to inlet feed tube

Work Location

Respirators/PPE Respirator, tyvek, safety goggles

Controls None

Sample # 3705-RA-3/24-11 -12 Pump # 13 658 Media McEF Hydrar

Calibration:
Pre 148cc/min Post 205cc/min

Time:
On 10:45 Off 12:26 Volume 28.59L
#2 2:36 3:37

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m3	142	

COMMENTS: 175 ~~x~~ min

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AIR SAMPLING DATA FORM

Client EPA Date 3/24/03 Job Code

Employee SSN # Job Title

Work Description Filter change #1 and #2 (see notes below)
left red cap on for first filter change - so used same

Work Location media for filter change #2. only included time for 2nd Filter change in total volume.

Respirators/PPE

Controls

Sample # 3705-R-A-3/24-13 -14 Pump # 11302 Media MCEF Hydrar

Calibration: Time: (on 3/24/03 #1 12:12 pm 12:24 pm left red cap on) - did not include in L

Pre 248cc/min Post 266cc/min On #2 7:50am Off 8:12am Volume 5.65 L

257 on 3/25/03 22

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: 22 min.

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AIR SAMPLING DATA FORM

EPA Date 3/24/03 Job Code

SSN # Job Title

escription Overnight M containment - RTI Exhaust

k Location

Respirators/PPE

Controls

Sample # 3705-R-A-3/24-15 Pump # ~~12705~~ 11252 Media Hydrar MCEF

-16

Calibration: 169 cc/min Time: 4:27pm

Pre ~~Hg~~ cc/min Post ~~[illegible]~~ On ~~4:27pm~~ Off 11:35pm Volume 68.13 L

157 163 ~~428~~ 418

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: 428 min.

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 3/24/13 Job Code

Employee SSN # Job Title

Work Description Overnight in Containment - RTI
Field Work

Work Location

Respirators/PPE

Controls

Sample # 3705-R-A-3/24-17 -18 Pump # 11179 Media Hydrar MCEF

Calibration: Pre 157 cc/min 151.5 Post 146 cc/min Time: On 4:07 pm 448 Off 11:35 pm 438 Volume 66.36 L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m3		

COMMENTS: 448 min.

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AIR SAMPLING DATA FORM

Client EPA Date 3/25/03 Job Code

Employee Tad SSN # Job Title

Work Description Personal - Dextrite

Work Location

Respirators/PPE Respirator, tyvek, safety goggles

Controls Jerome

Sample # 3705-D-A-3/25-19 tube -20 filter Pump # 12713 Media Hydrar MCEF

Calibration: Pre 159 cc/min 230 Post 301 cc/min

Time: On 9:46 12:29 Off 10:56 1:24 Volume 28.75 L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³	125	

COMMENTS: 125 min

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AIR SAMPLING DATA FORM

Client: EPA Date: 3/25/03 Job Code:

Employee: Tad SSN #: Job Title:

Work Description: Personal - Dextrite

Work Location:

Respirators/PPE: Respirator, tyvek, safety goggles

Controls: Jerome

Sample #: 3705-D-A-3/25-21 -22 Pump #: 13684 Media: Hydrar MCEF

Calibration:
Pre: 142 cc/min 135.5 Post: 129 cc/min Time: On: 9:46 12.29 Off: 10:56 1:24 Volume: 16.94L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: 135 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/25/03 Job Code

Employee SSN # Job Title

Work Description Inside containment - nextrite
area sample on fiber drum next to exhaust

Work Location -elevated

Respirators/PPE

Controls Jerome

Sample # 3705-D-A-3/25-23 -24 Pump # ~~3715~~ 800885 ~~800885~~ Media Hydrar MCEF

Calibration: 152 Time:
Pre ~~152~~ cc/min ~~166~~ 1:: Post ~~9:46~~ 120 cc/min On 9:46 12:29 Off 10:56 1:24 Volume 17.0 L

Substance	OSHA PEL	Concentration 125	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: 125 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/25/03 Job Code

Employee SSN # Job Title

Work Description Inside containment - Dextrite
area sample on fiber drum next to inlet feed tube

Work Location

Respirators/PPE

Controls Jerome

Sample # 3705-D-A-3/25-25 -26 Pump # 2018 Media Hydrar MCEF

Calibration: Pre 156 cc/min Post 243 cc/min 199.5

Time: On 9:46 12:29 Off 10:56 1:24 Volume 24.94 L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m3	125	

COMMENTS: 125 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/25/03 Job Code

Employee Tad SSN # Job Title

Work Description ~~Filter~~ First Drum change. - Dextrite

Work Location

Respirators/PPE Respirator, tyvek, safety goggles

Controls Jerome

Sample # 3705-D-A3/25-27 -28 Pump # 14959 Media Hydra- MCEF

Calibration: Pre 253 cc/min Post 170 cc/min Time: On 10:44 Off 10:56 Volume 2.54 L

211.5 12

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m3		

COMMENTS: 12 min.

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AIR SAMPLING DATA FORM

Client EPA Date 3/25/03 Job Code

Employee SSN # Job Title

Work Description Overnight in containment Dextrite

Work Location exhaust

Respirators/PPE

Controls

Sample # 3705-D-A-3/25-29 Pump # 2018 Media Hydrar

Calibration: -30 90.6 Time: MCEF 62.852

Pre ~~[illegible]~~ cc/min Post .906 cc/min On 1:34pm Off 10:10pm Volume ~~39.71 L~~

153 ~~76.8~~ 121.8 516

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: 576 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/25/03 Job Code

Employee SSN # Job Title

Work Description Overnight in containment - Dextrik

Work Location Reed Tube

Respirators/PPE

Controls

Sample # 3705-0-A-3/25-31 -32 Pump # 3715 Media Hydrar MCEF

Calibration: Pre 143 cc/min Post 126 cc/min 134.5

Time: On 1:34 pm Off 10:10 pm 516 Volume 69.40 L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: 576 min

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 3/25/03 Job Code

Employee SSN # Job Title

Work Description Second Drum Change Dextrite
(Area Δ performed on 3/26/03 - after outright incontainment)

Work Location

Respirators/PPE Respirator, tyvek, safety goggles

Controls

Sample # 3705 D-A-3/25-33 -34 Pump # 11302 Media Hydrar McBT

Calibration:
Pre 255cc/min 2275 Post 200cc/min

Time:
On 1016pm Off 10:29pm 13 Volume 2.96 L

Substance	OSHA PEL	Concentration	# Hour TWA
Hg	0.1mg/m³		

COMMENTS: 13 min

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 3/26/03 Job Code

Employee Tad SSN # Job Title

Work Description Personal - HMS

Work Location

Respirators/PPE Respirator, tyvek, gloves, safety goggles

Controls Jerome

Sample # 3705-H-A-3/26-35 tube -36 filter Pump # 2517 Media Hydrar mCEF

Calibration:
Pre 187cc/min 189 Post 191cc/min Time: On 8:13 Off 8:34 21 Volume 3.97 L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m^3		

COMMENTS: 21 min.

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AIR SAMPLING DATA FORM

Client EPA Date 3/26/03 Job Code

Employee Ted SSN # Job Title

Work Description Personal - HMS

Work Location

Respirators/PPE Respirator, tyvek, gloves, goggles

Controls None

Sample # 3705-H-A-3/26-37 tube - 38 filter Pump # 3714 Media Hydrar MCEF

Calibration: Pre 147 cc/min 148.5 Post 150 cc/min

Time: On 8:13 Off 8:34 Volume 3.12 L 21

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: 21 min

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AIR SAMPLING DATA FORM

Client ECP Date 3/26/03 Job Code

Employee SSN # Job Title

Work Description HMS Inside containment - on fibre drum near exhaust

Work Location

Respirators/PPE

Controls

Sample # 3705-H-A-2/26-39 -40 Pump # 2018 Media Hydrar MCEF

Calibration: Pre 158 cc/min Post 153 cc/min Time: On 8:13 Off 11:19 Volume 28.92 L

1555 186

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: 186 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/26/03 Job Code

Employee SSN # Job Title

Work Description HMS Inside containment - on fiber drum near inlet tube

Work Location

Respirators/PPE

Controls

Sample # 3705-H-A 3/26-41 -42 Pump # 3715 Media Hydrar MCEF

Calibration: Pre 141 cc/min Post 160 cc/min Time: On 5:13 Off 11:19 Volume 29.85 L

140.5 180

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: 144 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/27/03 Job Code

Employee SSN # Job Title

Work Description Personal - Aircycle

Work Location

Respirators/PPE

Controls

Sample # 3705-A-A-3/27-43 -44-Filter tube Pump # 80885 Media Hydrar MCEF

Calibration:
Pre 158cc/min Post 145 cc/min
151.5

Time:
On 10:21 1310 1650
Off 10:42 1503 1752 196
Volume 29.69 L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: 186 min.

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AIR SAMPLING DATA FORM

Client EPA Date 3/27/03 Job Code

Employee SSN # Job Title

Work Description Personal - Air Cycle

Work Location

Respirators/PPE

Controls

Sample # 3705-A-Air-3/27-45 -46 Pump # 2517 Media Hydrar MCEF

Calibration:
Pre 162 cc/min 1:02 Post 162 cc/min

Time:
On 1021 1310 1650 Off 1042 1503 1752 Volume 31.75L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³	196	

COMMENTS: ~~145~~ min

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AIR SAMPLING DATA FORM

Client EPA Date 3/27/03 Job Code

Employee SSN # Job Title

Work Description Air Cycle - Inside containment - on filter drum near exhaust

Work Location

Respirators/PPE

Controls

Sample # ~~3705-A-A-3/27~~ 3705-A-A-3/27-47 -48 Pump # 3714 Media Hydrar MCEF

Calibration: Pre 155 cc/min 149 Post 143 cc/min

Time: On 1021 1310 1650 Off 10:42 1503 1752 Volume 29.20 L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³	196	

COMMENTS: 146 min

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AIR SAMPLING DATA FORM

Client: EPA Date: 3/27/03 Job Code:

Employee: SSN #: Job Title:

Work Description: AV Cycle - Inside containment - on fiberdrum near inlet feed tube

Work Location:

Respirators/PPE:

Controls:

Sample #: 3705-A-A-3/27-49 -50 Pump #: 14959 Media: Hydrar McEF

Calibration:
Pre: 147 cc/min 139.5 Post: 132 cc/min

Time:
On: 1021 1310 1650 Off: 1042 1503 1752 Volume: 27.34 L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³	196	

COMMENTS: 186 min

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client: EPA Date: 3/27/03 Job Code:

Employee: SSN #: Job Title:

Work Description: Filter / Drum change #1 Aircycle Drum #1

Work Location:

Respirators/PPE: Respirators, Tyvek, Goggles, Gloves

Controls: Jerome

Sample #: 3705-A-A-3/27-51 -52 Pump #: 2018 Media: Hydar MCEF 5.401

Calibration: Pre 251 cc/min 245.5 Post 240 cc/min Time: On 1350 Off 1412 22 Volume ~~40.72~~ L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: 22 min.

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client: EPA Date: 3/27/03 Job Code:

Employee: SSN #: Job Title:

Work Description: Filter / Drum Change #2 Aircycle drum #1

Work Location:

Respirators/PPE: Respirators, Tyvek, Goggles, Gloves

Controls: JCrome

Sample #: 3705-A-A-3/27-53 -54 Pump #: 3715 Media: Hydrar MCEF

Calibration: Pre 243 cc/min 242.5 Post 242 cc/min Time: On 1444 14 Off 1503 Volume 3.40 L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: 14 min

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client: EPA Date: 3/27/03 Job Code:

Employee: SSN #: Job Title:

Work Description: Air cycle - overnight in containment
Let sample run throughout night w/ airflow
because could not get in facility to turn
off in middle of night

Work Location:

Respirators/PPE:

Controls: Exhaust

Sample #: 3705-A-A-3/27-55 -56 Pump #: 2018 Media: Ayder MCEF

Calibration:
Pre: 105 cc/min 1-0 Post: ~~95~~ cc/min Time: On 7:24 pm on 3/27/03 Off 8:20 am on 3/28/03 Volume 77.6 L - 776

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: 46 min

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 3/27/03 Job Code

Employee SSN # Job Title

Work Description an cycle - overnight in containment
let samples run throughout night. ↓
Work Location air flow, because could not get in facility to
turn off in middle of night.

Respirators/PPE

Controls feed tube

Sample # 3705-A-A-3/27-57 -58 Pump # 8715 Media Hydrox MCEF

Calibration:
Pre 166 cc/min Post ~~x~~964 cc/min
101.2

Time: on 3/27/03
On 7:24 Off 8:20 am on 8/28/03 Volume 78.53 L
77c

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: 716 min

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 3/27/03 Job Code

Employee SSN # Job Title

Work Description Filter Change #3 - Air Cycle Drum #2

Work Location

Respirators/PPE

Controls

Sample # 3NS-A-A-3/27-59 ·60 Pump # 2018 Media Hydar mCET

Calibration: Pre 248 cc/min 254.5 Post 261 cc/min Time: On 1749 Off 1801 12 Volume 3.05 L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m3		

COMMENTS: 12 min

Industrial Hygienist: Reviewed By: