12-0562

PEP Chain-of-Custody F

Filter Weighing and Shipping Information	
Filter Cassette No.	1558
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635488
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/23/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatior		
Filter ID		F
Weighing Lab		
Analyst/Custodian		T
Shipment Date		
Sent to (PE Org)		Sl
Date This Filter Must be Used by:		Ret

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends 2

PART II – FIELD OFFICE

Date Received: 7/25/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	7/30/12	PEP Field Scientist: G. NOAH
Site Name & Description	YBB	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:
AQS Site ID	YBB TB1	POC:
Other Operators or Observers		

Sampling Event Filter Data		
Sampling Date:	Retrieval Date:	Time:
Event Filter Integrity: ☐ OK ☐ Reject (describe)		
Sample Type		
☐ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)		
☐ CO - Collocated PEP ☐ Expired Filter (not used)		
☒ TB - Trip Blank (last RO Cassette ID used in audit trip: 10026)		
☐ Void (why?)		
PEP Cut Point: ☐ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC	

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	EPA RY
Shipped by	G. NOAH	Shipping Destination:	RY LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient	

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes: 12-0562 TRIP BLANK

PM 2.5 DAY 1

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☒ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	N/A YBA 251 POC: 1	Setup Date	7/30/2012
Site Name	YBA	PEP Field Scientist	G. NOAH
GPS Latitude	.	Primary SLT Sampler Serial No.	~~595~~ 7/30/2012
GPS Longitude	.	PEP PQ200A Serial No.	595

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI DELTACAL	0195	2/2/12
Temperature Standard		7/30/2012	
Barometric Pressure Standard			
Flow Rate Standard			
Time Checks OK?	☒ Yes ☐ No (describe)		
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)		

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 7/30/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	96 cmH_2O	95 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	756 mmHg	754 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	37.1 °C	36.8 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	37.1 °C	37.4 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.54 Lpm	16.65 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.54 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	9449	Cassette Retrieval Date/Time: 8/1/12 9:20	
PM Cut Point	☒ PM-2.5 ☐ PM-10		
Elapsed Time (ET)	23.59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.01		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.69	CV: 0.00
Start Date/Time	7/31/12 0:00	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	8/1/12 0:00		
Temperature (°C)	Max: 29	Min: 21.5	Avg: 24.2
Bar. Pressure (mm Hg)	Max: 759	Min: 752	Avg: 755
Field Blank Cassette ID	9654	Sampler Flags[3]: N/A	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: DAY 1 PRIMARY SITE

12-0562

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	9449
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635519
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/25/2012
Shipped by	Judy Maddox
Shipment Date	7/25/2012
FedEx Airbill No.	OUT072512
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/24/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informat	
Filter ID	
Weighing Lab	
Analyst/Custodian	
Shipment Date	
Sent to (PE Org)	
Date This Filter Must be Used by:	

Normally, the weighing laboratory completes Part I, keeps 1 copy and sen

PART II – FIELD OFFICE

Date Received: 7/25/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	7/30/12	PEP Field Scientist:	G. NOAH
Site Name & Description	YBB		
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:	
Primary SLT PM-10 Sampler	Make/Model: GN 8/30/12	Serial No.: GN 8/16/12	
AQS Site ID	YBA 251	POC:	1
Other Operators or Observers	MIKE CLONE		

Sampling Event Filter Data		
Sampling Date: 7/31/12	Retrieval Date: 8/1/12	Time: 9:20
Event Filter Integrity: ☒ OK ☐ Reject (describe)		
Sample Type		
☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)		
☐ CO - Collocated PEP ☐ Expired Filter (not used)		
☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)		
☐ Void (why?)		
PEP Cut Point: ☒ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☒ WINS ☐ VSCC	

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12 G. NOAH	Affiliation:	USEPA
Shipped by	~~HAND DELIVERED~~ GN 8/6/12	Shipping Destination:	RM LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:	Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Chain-of-Custody F

Filter Weighing and Shipping Information	
Filter Cassette No.	9654
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635517
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/25/2012
Shipped by	Judy Maddox
Shipment Date	7/25/2012
FedEx Airbill No.	OUT072512
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**8/24/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Information		
Filter ID		F
Weighing Lab		
Analyst/Custodian		T
Shipment Date		
Sent to (PE Org)		Sh
Date This Filter Must be Used by:		Ret

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends 2

PART II – FIELD OFFICE

Date Received: 7/25/12	Received by: G. Noah
Package Condition: ☑ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	7/30/12	PEP Field Scientist:	G. Noah
Site Name & Description	YBB		
Primary SLT PM-2.5 Sampler	Make/Model: ~~8/6/12~~	Serial No.: ~~8/6/12~~	
Primary SLT PM-10 Sampler	Make/Model: 8/6/12	Serial No.:	
AQS Site ID	YBA 251	POC:	
Other Operators or Observers	Greg Noah / Mike Crow		

Sampling Event Filter Data 8/6/12			
Sampling Date: 7/31/12		Retrieval Date: ~~7/31/12~~ 8/1/12	Time: 0920
Event Filter Integrity: ☑ OK ☐ Reject (describe)			
Sample Type			
☐ RO - Routine	☑ FB - Field Blank (RO Cassette ID: 9449)	☐ Other (describe)	
☐ CO - Collocated PEP	☐ Expired Filter (not used)		
☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)			
☐ Void (why?)			
PEP Cut Point: ☑ PM-2.5 ☐ PM-10		PM-2.5 Separator Type: ☑ WINS ☐ VSCC	

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	USEPA
Shipped by	Hand delivered	Shipping Destination:	R4 Lab
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:	Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBA TSP1 POC: 1	Setup Date	7/30/12
Site Name	YBA TSP1	PEP Field Scientist	G. NOAH
GPS Latitude	___ ___ ___ . ___ ___ ___ ___	Primary SLT Sampler Serial No.	N/A
GPS Longitude	___ ___ ___ . ___ ___ ___ ___	PEP PQ200A Serial No.	0588

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI DELTA CAL	0195	2/2/12
Temperature Standard		GN 7/30/12	
Barometric Pressure Standard			
Flow Rate Standard			
Time Checks OK?	☒ Yes ☐ No (describe)		
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)		

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 7/30/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	97 cmH_2O	96 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	754 mmHg	756 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	33.5 °C	33.9 °C	☒ Yes ☐ No
Filter Sensor	± 2°C 34.6	~~16.42~~ °C GN 7/30/12	36.3 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.42 Lpm	16.70 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.42 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	9187	Cassette Retrieval Date/Time: 8/1/12 10:29	
PM Cut Point	☐ PM-2.5 ☐ PM-10 TSP		
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.01		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.35
Start Date/Time	7/31/12 0:00	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	8/1/12 0:00		
Temperature (°C)	Max: 29.9	Min: 21.5	Avg: 24.4
Bar. Pressure (mm Hg)	Max: 759	Min: 754	Avg: 755
Field Blank Cassette ID	N/A	Sampler Flags[3]: N/A	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: YBA TSP DAY 1

12-0562

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	9187
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635516
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/25/2012
Shipped by	Judy Maddox
Shipment Date	7/25/2012
FedEx Airbill No.	OUT072512
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/24/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatic		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		R

Normally, the weighing laboratory completes Part I, keeps 1 copy and send

PART II – FIELD OFFICE

Date Received: 7/25/12	Received by: G. Noah
Package Condition: ☑ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	7/30/12	PEP Field Scientist:	G. Noah
Site Name & Description	YBA		
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:	
Primary SLT PM-10 Sampler	Make/Model: 8/6/12	Serial No.:	8/6/12
AQS Site ID	YBATSP1	POC: 1	
Other Operators or Observers	Mike Crowe		

Sampling Event Filter Data		
Sampling Date: 7/31/12	Retrieval Date: 8/1~~2~~12	Time: 10:29
Event Filter Integrity: ☑ OK ☐ Reject (describe)		
Sample Type		
☑ RO - Routine	☐ FB - Field Blank (RO Cassette ID:_____)	☐ Other (describe)
☐ CO - Collocated PEP	☐ Expired Filter (not used)	
☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)		
☐ Void (why?)		
PEP Cut Point: ☐ PM-2.5 ☐ PM-10 TSP	PM-2.5 Separator Type: ☐ WINS ☐ VSCC	N/A

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	USEPA
Shipped by	Hand delivered	Shipping Destination:	R4 Lab
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:	Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBA POC: 1	Setup Date	7/30/12
Site Name	YBA 2.5C1	PEP Field Scientist	G. NOAH
GPS Latitude	__ __ __ . __ __ __ __ __	Primary SLT Sampler Serial No.	N/A
GPS Longitude	__ __ __ . __ __ __ __ __	PEP PQ200A Serial No.	0594.

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI DELTA CAL	0195	2/2/12
Temperature Standard		GW 7/30/12	
Barometric Pressure Standard			
Flow Rate Standard			
Time Checks OK?	☒ Yes ☐ No (describe)		
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)		

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 7/30/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	98 cmH_2O	98 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	756 mmHg	756 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	32.7 °C	32.1 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	34.8 °C	35.7 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.30 Lpm	16.70 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.30 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	5049	Cassette Retrieval Date/Time: 8/1/12 8/1/12 00:00 10:32	
PM Cut Point	☒ PM-2.5 ☐ PM-10		
Elapsed Time (ET)	23.59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.71	CV: 0.51
Start Date/Time	7/31/12 0:00	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	8/1/12 0:00		
Temperature (°C)	Max: 29.0	Min: 21.6	Avg: 24.3
Bar. Pressure (mm Hg)	Max: 760	Min: 754	Avg: 756
Field Blank Cassette ID	N/A	Sampler Flags[3]: N/A	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: COLLOCATED SAMPLER

12-0562

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	5049
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635513
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/23/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatic		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		R

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 7/25/12	Received by: G. Noah
Package Condition: ☑ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	7/30/12	PEP Field Scientist:	G. Noah
Site Name & Description	YBA		
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:	
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:	
AQS Site ID	YBA25C1	POC:	1
Other Operators or Observers	Mike Crow		

Sampling Event Filter Data		
Sampling Date: 7/31/12	Retrieval Date: 8/1/12	Time: 1032
Event Filter Integrity: ☑ OK ☐ Reject (describe)		

Sample Type

☐ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☑ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☑ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☑ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	USEPA
Shipped by	Hand delivered	Shipping Destination:	R4 LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBA 101 POC: 1	Setup Date	7/30/12
Site Name	YBA	PEP Field Scientist	G. NOAH
GPS Latitude	__ __ __ . __ __ __ __ __	Primary SLT Sampler Serial No.	N/A
GPS Longitude	__ __ __ . __ __ __ __ __	PEP PQ200A Serial No.	0592

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI DELTACAL	0195	2/2/12
Temperature Standard			
Barometric Pressure Standard			
Flow Rate Standard			
Time Checks OK?	☒ Yes ☐ No (describe)		
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)		

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 7/30/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	98 cmH_2O	97 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	756 mmHg	750 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	33.9 °C	33.2 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	33.6 °C	34.3 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.43 Lpm	16.70 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.43 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	4206	Cassette Retrieval Date/Time: 8/1/12 10:20	
PM Cut Point	☐ PM-2.5 ☒ PM-10		
Elapsed Time (ET)	23.59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.52
Start Date/Time	7/31/12 0:00	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	8/1/12 0:00		
Temperature (°C)	Max: 28.7	Min: 21.4	Avg: 24.2
Bar. Pressure (mm Hg)	Max: 755	Min: 746	Avg: 751
Field Blank Cassette ID	N/A	Sampler Flags[3]: N/A	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: YBA PM10 DAY 1, P FLAG NOT VALID. UNPLUGGED BEFORE DOWNLOAD.

12-0562

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	4206
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635518
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/25/2012
Shipped by	Judy Maddox
Shipment Date	7/25/2012
FedEx Airbill No.	OUT072512
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/24/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatio		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		Re

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 7/25/12 | Received by: G. NOAH

Package Condition: ☒ Good ☐ Reject (Why?)

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	7/30/12	PEP Field Scientist:	G. NOAH
Site Name & Description	YBA		
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:	
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:	
AQS Site ID	YBA 101	POC:	1
Other Operators or Observers	MIKE CRONE		

Sampling Event Filter Data		
Sampling Date: 7/31/12	Retrieval Date: 8/1/12	Time: 10:00
Event Filter Integrity: ☒ OK ☐ Reject (describe)		
Sample Type		
☒ RO - Routine	☐ FB - Field Blank (RO Cassette ID:_____)	☐ Other (describe)
☐ CO - Collocated PEP	☐ Expired Filter (not used)	
☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)		
☐ Void (why?)		
PEP Cut Point: ☐ PM-2.5 ☒ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC	

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	RY EPA
Shipped by	G. NOAH	Shipping Destination:	RY LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:	Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☒ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBA 252 POC:	Setup Date	8/1/12
Site Name	YBA	PEP Field Scientist	G. NEAH
GPS Latitude	__ __ __ . __ __ __ __ __	Primary SLT Sampler Serial No.	N/A
GPS Longitude	__ __ __ . __ __ __ __ __	PEP PQ200A Serial No.	0595

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI DELTACAL	0195	2/2/12
Temperature Standard		GN 8/1/12	
Barometric Pressure Standard			
Flow Rate Standard			

Time Checks OK?	☒ Yes ☐ No (describe)
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date:
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	97 cmH_2O	96 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	757 mmHg	756 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	28.2 °C	26.7 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	28.3 °C	28.4 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.76 Lpm	16.67 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.76 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	2595	Cassette Retrieval Date/Time: 8/2/12 12:50	
PM Cut Point	☒ PM-2.5 ☐ PM-10		
Elapsed Time (ET)	23.59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	23.99		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.69	CV: 0.1
Start Date/Time	8/1/12 11:30	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	8/2/12 11:30		
Temperature (°C)	Max: 35.5	Min: 24.0	Avg: 28.8
Bar. Pressure (mm Hg)	Max: 756	Min: 753	Avg: 753
Field Blank Cassette ID	N/A	Sampler Flags[3]: P	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

P FLAG NOT APPLICABLE TO RUN.
UNPLUGGED TO PLUG IN
COMPUTER.

12-0562

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	2595
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635504
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/23/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatic		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		Re

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 7/25/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	8/1/12	PEP Field Scientist: G. NOAH
Site Name & Description	YBA	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:
Primary SLT PM-10 Sampler	Make/Model: 8/6/12	Serial No.:
AQS Site ID	YBA 252	POC: 1
Other Operators or Observers	MIKE CROWE	

Sampling Event Filter Data		
Sampling Date: 8/1/12	Retrieval Date: 8/2/12	Time: 12:50
Event Filter Integrity: ☒ OK ☐ Reject (describe)		
Sample Type		
☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)		
☐ CO - Collocated PEP ☐ Expired Filter (not used)		
☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)		
☐ Void (why?)		
PEP Cut Point: ☒ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☒ WINS ☐ VSCC	

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	~~G. NOAH~~ 8/3/12	Affiliation:	R4 EPA
Shipped by	G. NOAH	Shipping Destination:	R4 LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:	Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBA 102 POC: 1	Setup Date	8/1/12
Site Name	YBA	PEP Field Scientist	M. Crowe
GPS Latitude	___ . ___	Primary SLT Sampler Serial No.	N/A
GPS Longitude	___ . ___	PEP PQ200A Serial No.	0592

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI Delta Cal	0195	2/2/12
Temperature Standard			
Barometric Pressure Standard			
Flow Rate Standard			
Time Checks OK?	☑ Yes ☐ No (describe)		
Monitoring Site Criteria OK?	☑ Yes ☐ No (describe)		

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 8/1/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	098 cmH_2O	095 cmH_2O	☑ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	757 mmHg	752 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	29.4 °C	27.8 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	30.4 °C	30.2 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.54 Lpm	16.70 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.54 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	2653	Cassette Retrieval Date/Time: 12:55 8/2/12	
PM Cut Point	☐ PM-2.5 ☒ PM-10		
Elapsed Time (ET)	23.59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.02		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.71	CV: 0.50
Start Date/Time	8/1/12 11:30	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	8/2/12 11:30		
Temperature (°C)	Max: 35.0	Min: 24.0	Avg: 28.6
Bar. Pressure (mm Hg)	Max: 753	Min: 749	Avg: 750
Field Blank Cassette ID	1092	Sampler Flags[3]: N/A	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: YBA PM10 day 2

12-0562

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	2653
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635510
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/23/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informat	
Filter ID	
Weighing Lab	
Analyst/Custodian	
Shipment Date	
Sent to (PE Org)	
Date This Filter Must be Used by:	

Normally, the weighing laboratory completes Part I, keeps 1 copy and se

PART II – FIELD OFFICE

Date Received: 7/25/12 | Received by: G. NOAH

Package Condition: ☒ Good ☐ Reject (Why?)

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	8/1/12	PEP Field Scientist:	G. NOAH
Site Name & Description	YBA		
Primary SLT PM-2.5 Sampler	Make/Model:	~~Serial No.:~~	
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:	
AQS Site ID	YBA 102	POC:	1
Other Operators or Observers	MIKE CRONE		

GN 8/1/12

Sampling Event Filter Data		
Sampling Date: 8/1/12	Retrieval Date: 8/2/12	Time: 12:55
Event Filter Integrity: ☒ OK ☐ Reject (describe)		
Sample Type		
☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)		
☐ CO - Collocated PEP ☐ Expired Filter (not used)		
☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)		
☐ Void (why?)		
PEP Cut Point: ☐ PM-2.5 ☒ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC	

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	KY EPA
Shipped by	G. NOAH	Shipping Destination:	KY LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:	Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	1092
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635486
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/23/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatio		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		Re

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends .

PART II – FIELD OFFICE

Date Received: 7/25/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	8/1/12	PEP Field Scientist: G. NOAH
Site Name & Description	YBA	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.: 8/6/12
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:
AQS Site ID	YBA 102	POC: 1
Other Operators or Observers	MIKE CROWE	

Sampling Event Filter Data		
Sampling Date: 8/1/12	Retrieval Date: 8/2/12	Time: 12:55
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☐ RO - Routine ☒ FB - Field Blank (RO Cassette ID: 2653) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	R4 EPA
Shipped by	G. NOAH	Shipping Destination:	R4 LAB
Tracking No.	→	Shipping Company:	→

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient	

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBA TSP2 POC: 1	Setup Date	8/1/12
Site Name	YBA	PEP Field Scientist	G. NOAA
GPS Latitude	__ __ __ . __ __ __ __ __	Primary SLT Sampler Serial No.	—— N/A
GPS Longitude	__ __ __ . __ __ __ __ __	PEP PQ200A Serial No.	0588

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI DELTA CAL	0195	2/2/12
Temperature Standard		GN 8/1/12	
Barometric Pressure Standard			
Flow Rate Standard			
Time Checks OK?	☒ Yes ☐ No (describe)		
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)		

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 8/1/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	101 cmH_2O	100 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	757 mmHg	756 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	28.7 °C	27.9 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	30.6 °C	30.9 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.62 Lpm	16.70 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.62 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	2426	Cassette Retrieval Date/Time:	
PM Cut Point	☐ PM-2.5 ☐ PM-10 TSP	12:58 8/2/12	
Elapsed Time (ET)	23.59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.02		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.44
Start Date/Time	8/1/12 11:30	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	8/2/12 11:30		
Temperature (°C)	Max: 35.9	Min: 24.0	Avg: 29.0
Bar. Pressure (mm Hg)	Max: 757	Min: 753	Avg: 754
Field Blank Cassette ID	N/A	Sampler Flags[3]: N/A	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

12-0562

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	2426
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635511
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/23/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informati	
Filter ID	
Weighing Lab	
Analyst/Custodian	
Shipment Date	
Sent to (PE Org)	
Date This Filter Must be Used by:	F

Normally, the weighing laboratory completes Part I, keeps 1 copy and sen

PART II – FIELD OFFICE

Date Received: 8/25/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	8/1/12	PEP Field Scientist:	G. NOAH
Site Name & Description	YBA		
Primary SLT PM-2.5 Sampler	~~Make/Model:~~	Serial No.:	
Primary SLT PM-10 Sampler	Make/Model: G 8/6/12	Serial No.:	
AQS Site ID	YBA TSP2	POC:	1
Other Operators or Observers	MIKE CROWE		

Sampling Event Filter Data		
Sampling Date: 8/1/12	Retrieval Date: 8/2/12	Time: 12:58
Event Filter Integrity: ☒ OK ☐ Reject (describe)		
Sample Type		
☒ RO - Routine	☐ FB - Field Blank (RO Cassette ID:_____)	☐ Other (describe)
☐ CO - Collocated PEP	☐ Expired Filter (not used)	
☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)		
☐ Void (why?)		
PEP Cut Point: ☐ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC	

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	RTI EPA
Shipped by	G. NOAH	Shipping Destination:	RTI LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient	

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBA 25 10 C1 POC: 1	Setup Date	7/30/12
Site Name	YBA	PEP Field Scientist	G. NOAH
GPS Latitude	__ __ __ . __ __ __ __ __	Primary SLT Sampler Serial No.	N/A
GPS Longitude	__ __ __ . __ __ __ __ __	PEP PQ200A Serial No.	0594

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI DELTACAL	0195	2/2/12
Temperature Standard		GN 8/1/12	
Barometric Pressure Standard			
Flow Rate Standard			
Time Checks OK?	☒ Yes ☐ No (describe)		
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)		

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 8/1/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	101 cmH_2O	101 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	757 mmHg	757 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	30.3 °C	28.4 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	30.1 °C	30.1 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.65 Lpm	16.70 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.65 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	4671	Cassette Retrieval Date/Time: 8/2/12 13:00	
PM Cut Point	☐ PM-2.5 ☒ PM-10		
Elapsed Time (ET)	23.59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.02		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.42
Start Date/Time	8/1/12 11:30	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	8/2/12 11:30		
Temperature (°C)	Max: 35.6	Min: 24.0	Avg: 28.8
Bar. Pressure (mm Hg)	Max: 758	Min: 754	Avg: 755
Field Blank Cassette ID	N/A	Sampler Flags[3]: N/A	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: COLLOCATED PM10, DAY 2

12-0562

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	4671
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635502
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/23/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatic	
Filter ID	
Weighing Lab	
Analyst/Custodian	
Shipment Date	
Sent to (PE Org)	
Date This Filter Must be Used by:	R

Normally, the weighing laboratory completes Part I, keeps 1 copy and send

PART II – FIELD OFFICE

Date Received: 8/25/12	Received by: G NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	8/1/12	PEP Field Scientist: G. NOAH
Site Name & Description	YBA	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.: 8/6/12
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:
AQS Site ID	YBA 10C1	POC: 1
Other Operators or Observers		

Sampling Event Filter Data		
Sampling Date: 8/1/12	Retrieval Date: 8/2/12	Time: 13:000
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☐ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☒ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☒ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation: R4 EPA	
Shipped by	G. NOAH	Shipping Destination: R4 LAB	
Tracking No.	—	Shipping Company: —	

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient	

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBA POC: 1	Setup Date	8/2/12
Site Name	YBATSP3	PEP Field Scientist	M. Crowe
GPS Latitude	___ . ___	Primary SLT Sampler Serial No.	N/A
GPS Longitude	___ . ___	PEP PQ200A Serial No.	588

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI Delta Cal	0195	2/2/12
Temperature Standard			
Barometric Pressure Standard		GV 8/3/12	
Flow Rate Standard			
Time Checks OK?	☑ Yes ☐ No (describe)		
Monitoring Site Criteria OK?	☑ Yes ☐ No (describe)		

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 8/2/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	101 cmH_2O	100 cmH_2O	☑ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	756 mmHg	755 mmHg	☑ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	25.6 °C	25.3 °C	☑ Yes ☐ No
Filter Sensor	± 2°C	25.8 °C	27.2 °C	☑ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.65 Lpm	16.72 Lpm	☑ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.65 Lpm	16.67 Lpm	☑ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	1047	Cassette Retrieval Date/Time: 8/3/12 13:46	
PM Cut Point	☐ PM-2.5 ☐ PM-10 TSP		
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.01		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.41
Start Date/Time	8/2 13:30	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	8/3 13:30		
Temperature (°C)	Max: 34.4	Min: 22.2	Avg: 25.6
Bar. Pressure (mm Hg)	Max: 757	Min: 753	Avg: 754
Field Blank Cassette ID	2415	Sampler Flags[3]: N/A	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

12-0562

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	1047
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635493
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/23/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatio		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		Re

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 7/25/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	8/2/12	PEP Field Scientist: G. NOAH
Site Name & Description	YBA	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:
Primary SLT PM-10 Sampler	Make/Model:	Serial No.: 8/6/12
AQS Site ID	YBA TSP3	POC: 1
Other Operators or Observers	MIKE CROWE	

Sampling Event Filter Data		
Sampling Date: 8/2/12	Retrieval Date: 8/3/12	Time: 13:46
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	RY EPA
Shipped by	G. NOAH	Shipping Destination:	RY LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	2415
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635496
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**8/23/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatio		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		Re

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 7/25/12 Received by: G. NOAH

Package Condition: ☒ Good ☐ Reject (Why?)

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	8/2/12	PEP Field Scientist:	G. NOAH
Site Name & Description	YBA		
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.	8/6/12
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:	
AQS Site ID	YBATSP3	POC:	1
Other Operators or Observers			

Sampling Event Filter Data

Sampling Date: 8/2/12 Retrieval Date: 8/3/12 Time: 13:46

Event Filter Integrity: ☒ OK ☐ Reject (describe)

Sample Type

☐ RO - Routine ☒ FB - Field Blank (RO Cassette ID: D47) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☐ PM-10 PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	RY EPA
Shipped by	G. NOAH	Shipping Destination:	RY LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBA POC: 1	Setup Date	8/2/12
Site Name	YBA 253	PEP Field Scientist	M. Crowe
GPS Latitude	__ __ __ . __ __ __ __ __	Primary SLT Sampler Serial No.	N/A
GPS Longitude	__ __ __ . __ __ __ __ __	PEP PQ200A Serial No.	0595

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI Delta Cal	0195	2/2/12
Temperature Standard			
Barometric Pressure Standard		8/3/12	
Flow Rate Standard			
Time Checks OK?	☑ Yes ☐ No (describe)		
Monitoring Site Criteria OK?	☑ Yes ☐ No (describe)		

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 8/2/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	96 cmH_2O	96 cmH_2O	☑ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	757 mmHg	755 mmHg	☑ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	26.5 °C	25.6 °C	☑ Yes ☐ No
Filter Sensor	± 2°C	26.8 °C	26.9 °C	☑ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.66 Lpm	16.70 Lpm	☑ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.66 Lpm	16.67 Lpm	☑ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	1398	Cassette Retrieval Date/Time: 8/3/12 13:49	
PM Cut Point	☑ PM-2.5 ☐ PM-10		
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.00		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.69	CV: 0.11
Start Date/Time	8/2/12 13:30	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	8/3/12 13:30		
Temperature (°C)	Max: 34.4	Min: 22.2	Avg: 25.6
Bar. Pressure (mm Hg)	Max: 757	Min: 752	Avg: 754
Field Blank Cassette ID	N/A	Sampler Flags[3]: P	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: P FLAG NOT APPLICABLE TO BLANK. OCCURED WHEN SAMPLER WAS UNPLUGGED FOR COMPUTER DOWNLOAD.

04-26-2011 version

12-0562

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	1398
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635503
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/23/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatic		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		Re

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 7/25/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	8/2/12	PEP Field Scientist:	G. NOAH
Site Name & Description	YBA		
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.: 8/6/12	
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:	
AQS Site ID	YBA 253	POC: 1	
Other Operators or Observers	MIKE CROWE		

Sampling Event Filter Data

Sampling Date: 8/2/12	Retrieval Date: 8/3/12	Time: 13:49

Event Filter Integrity: ☒ OK ☐ Reject (describe)

Sample Type

☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☒ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	RM EPA
Shipped by	G. NOAH	Shipping Destination:	RM LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient	

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBA POC: 1	Setup Date	8/2/12
Site Name	YBA 103	PEP Field Scientist	M. Crowe
GPS Latitude	___ . ___	Primary SLT Sampler Serial No.	
GPS Longitude	___ . ___	PEP PQ200A Serial No.	592

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI DeltaCal	0195	2/2/12
Temperature Standard			
Barometric Pressure Standard			
Flow Rate Standard			
Time Checks OK?	☑ Yes ☐ No (describe)		
Monitoring Site Criteria OK?	☑ Yes ☐ No (describe)		

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 8/2/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	99 cmH_2O	99 cmH_2O	☑ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	756 mmHg	752 mmHg	☑ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	25.6 °C	25.4 °C	☑ Yes ☐ No
Filter Sensor	± 2°C	25.8 °C	26.9 °C	☑ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.54 Lpm	16.70 Lpm	☑ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.54 Lpm	16.67 Lpm	☑ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	4762	Cassette Retrieval Date/Time:	
PM Cut Point	☐ PM-2.5 ☑ PM-10	8/3/12 13:53	
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.71	CV: 0.43
Start Date/Time	8/2/12 13:30	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	8/3/12 13:30		
Temperature (°C)	Max: 34.3	Min: 22.2	Avg: 25.5
Bar. Pressure (mm Hg)	Max: 753	Min: 748	Avg: 750
Field Blank Cassette ID	N/A	Sampler Flags[3]: N/A	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

12-0562

PEP Chain-of-Custod

Filter Weighing and Shipping Information	
Filter Cassette No.	4762
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635498
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/23/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informa	
Filter ID	
Weighing Lab	
Analyst/Custodian	
Shipment Date	
Sent to (PE Org)	
Date This Filter Must be Used by:	

Normally, the weighing laboratory completes Part I, keeps 1 copy and s

PART II – FIELD OFFICE

Date Received: 8/25/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	8/2/12	PEP Field Scientist:	G. NOAH
Site Name & Description	YBA		
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:	8/6/12
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:	
AQS Site ID	YBA 103	POC:	
Other Operators or Observers	MIKE CROWE		

Sampling Event Filter Data		
Sampling Date: 8/2/12	Retrieval Date: 8/3/12	Time: 13:53
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☒ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	RY EPA
Shipped by	G. NOAH	Shipping Destination:	RY LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBA POC: 1	Setup Date	8/2/12
Site Name	YBA TSP3C	PEP Field Scientist	M. Crowe
GPS Latitude	__ __ __.__ __ __ __ __	Primary SLT Sampler Serial No.	
GPS Longitude	__ __ __.__ __ __ __ __	PEP PQ200A Serial No.	594

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI DeltaCal	0195	2/2/12
Temperature Standard			
Barometric Pressure Standard			
Flow Rate Standard			

Time Checks OK?	☑ Yes ☐ No (describe)
Monitoring Site Criteria OK?	☑ Yes ☐ No (describe)

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 8/2/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	99 cmH_2O	99 cmH_2O	☑ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	756 mmHg	756 mmHg	☑ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	25.9 °C	25.3 °C	☑ Yes ☐ No
Filter Sensor	± 2°C	25.9 °C	26.5 °C	☑ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.52 Lpm	16.67 Lpm	☑ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.52 Lpm	16.67 Lpm	☑ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	4228	Cassette Retrieval Date/Time:	
PM Cut Point	☐ PM-2.5 ☐ PM-10 (TSP)	8/3/12 13:53	
Elapsed Time (ET)	24:00	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.44
Start Date/Time	8/2/12 13:30	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	8/3/12 13:30		
Temperature (°C)	Max: 34.0	Min: 22.2	Avg: 25.6
Bar. Pressure (mm Hg)	Max: 758	Min: 755	Avg: 756
Field Blank Cassette ID	N/A	Sampler Flags[3]: N/A	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: TSP 3 Collocated

YBA

12-0562

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	4228
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635492
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/23/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatio		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		Re

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 7/25/12 | Received by: G. NOAH

Package Condition: ☒ Good ☐ Reject (Why?)

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	8/2/12	PEP Field Scientist:	G. NOAH
Site Name & Description	YBA		
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:	GN 8/6/12
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:	
AQS Site ID	YBA TSP3C	POC:	1
Other Operators or Observers	MIKE CROWE		

Sampling Event Filter Data

Sampling Date: 8/2/12 | Retrieval Date: 8/3/12 | Time: 13:53

Event Filter Integrity: ☒ OK ☐ Reject (describe)

Sample Type

☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☐ PM-10 | PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	RM EPA
Shipped by	G. NOAH	Shipping Destination:	RM LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBB POC: 1	Setup Date	7/30/12
Site Name	YBB 251	PEP Field Scientist	M. Crowe
GPS Latitude	__ __ __ . __ __ __ __	Primary SLT Sampler Serial No.	N/A
GPS Longitude	__ __ __ . __ __ __ __	PEP PQ200A Serial No.	0587

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI DeltaCal	0195	2/2/12
Temperature Standard			
Barometric Pressure Standard			
Flow Rate Standard		7/30/12	
Time Checks OK?	☑ Yes ☐ No (describe)		
Monitoring Site Criteria OK?	☐ Yes ☑ No (describe) See Yellow Bluff logbook for description.		

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 7/30/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	105 cmH_2O	105 cmH_2O	☑ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	755 mmHg	758 mmHg	☑ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	33.1 °C	33.2 °C	☑ Yes ☐ No
Filter Sensor	± 2°C	33.2 °C	33.0 °C	☑ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.36 Lpm	16.70 Lpm	☑ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.36 Lpm	16.67 Lpm	☑ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	1810	Cassette Retrieval Date/Time: 8:06 8/1/12	
PM Cut Point	☑ PM-2.5 ☐ PM-10		
Elapsed Time (ET)	23.59	**Filter Integrity OK?**	☑ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.41
Start Date/Time	7/31/12	**Data Download OK?**	☑ Yes ☐ No (describe)
Stop Date/Time	8/1/12		
Temperature (°C)	Max: 28.1	Min: 21.5	Avg: 24.8
Bar. Pressure (mm Hg)	Max: 762	Min: 757	Avg: 759
Field Blank Cassette ID	N/A	Sampler Flags[3]: N/A	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: $PM_{2.5}$ YBB

12-0562

PEP Chain-of-Custod

Filter Weighing and Shipping Information	
Filter Cassette No.	1810
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635514
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/23/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informa	
Filter ID	
Weighing Lab	
Analyst/Custodian	
Shipment Date	
Sent to (PE Org)	
Date This Filter Must be Used by:	

Normally, the weighing laboratory completes Part I, keeps 1 copy and s

PART II – FIELD OFFICE

Date Received: 7/25/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	7/30/12	PEP Field Scientist: G. NOAH
Site Name & Description	YBB	
Primary SLT PM-2.5 Sampler	Make/Model:	~~Serial No.: G~~ 8/6/12
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:
AQS Site ID	YBB 251	POC: 1
Other Operators or Observers	MIKE CROWE	

Sampling Event Filter Data		
Sampling Date: 7/31/12	Retrieval Date: 8/1/12	Time: 8:06
Event Filter Integrity: ☒ OK ☐ Reject (describe)		
Sample Type		
☒ RO - Routine	☐ FB - Field Blank (RO Cassette ID:_____)	☐ Other (describe)
☐ CO - Collocated PEP	☐ Expired Filter (not used)	
☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)		
☐ Void (why?)		
PEP Cut Point: ☒ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☒ WINS ☐ VSCC	

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	R4 EPA
Shipped by	G. NOAH	Shipping Destination:	R4 LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBB POC: 1	Setup Date	7/30/12
Site Name	YBB 101	PEP Field Scientist	M. Crowe
GPS Latitude	____.____	Primary SLT Sampler Serial No.	N/A
GPS Longitude	____.____	PEP PQ200A Serial No.	0590

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI Delta Cal	0195	2/2/12
Temperature Standard			
Barometric Pressure Standard			
Flow Rate Standard			
Time Checks OK?	☑ Yes ☐ No (describe)		
Monitoring Site Criteria OK?	☐ Yes ☑ No (describe) See Yellow Bluff logbook		

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 7/30/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	103 cmH_2O	103 cmH_2O	☑ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	756 mmHg	754 mmHg	☑ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	31.2 °C	31.2 °C	☑ Yes ☐ No
Filter Sensor	± 2°C	32.4 °C	31.7 °C	☑ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.40 Lpm	16.72 Lpm	☑ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.40 Lpm	16.67 Lpm	☑ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	8764	Cassette Retrieval Date/Time: 8:10 8/1/12	
PM Cut Point	☐ PM-2.5 ☑ PM-10		
Elapsed Time (ET)	23.59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.71	CV: 0.61
Start Date/Time	7/31/12	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	8/1/12		
Temperature (°C)	Max: 28.2	Min: 21.2	Avg: 24.5
Bar. Pressure (mm Hg)	Max: 758	Min: 753	Avg: 754
Field Blank Cassette ID	N/A	Sampler Flags[3]: ~~N/A~~ on 8/1/12 P	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: YBB PM_{10}

12-0562

PEP Chain-of-Custody I

Filter Weighing and Shipping Information	
Filter Cassette No.	8764
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635509
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/23/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatior		
Filter ID		I
Weighing Lab		
Analyst/Custodian		T
Shipment Date		
Sent to (PE Org)		Sh
Date This Filter Must be Used by:		Ret

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends 2

PART II – FIELD OFFICE

Date Received: 7/25/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	7/30/12	PEP Field Scientist: G. NOAH
Site Name & Description	YBB	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.: 8/6/R
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:
AQS Site ID	YBB 101	POC: 1
Other Operators or Observers	MIKE CROWE	

Sampling Event Filter Data		
Sampling Date: 7/31/12	Retrieval Date: 8/1/12	Time: 8:10
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☒ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	RU EDA
Shipped by	G. NOAH	Shipping Destination:	RU LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient	

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBB POC: 1	Setup Date	7/30/12
Site Name	YBB TSP1	PEP Field Scientist	M. Crowe
GPS Latitude	___ . ___	Primary SLT Sampler Serial No.	N/A
GPS Longitude	___ . ___	PEP PQ200A Serial No.	0597

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI Delta Cal	0195	2/2/12
Temperature Standard			
Barometric Pressure Standard			
Flow Rate Standard			
Time Checks OK?	☑ Yes ☐ No (describe)		
Monitoring Site Criteria OK?	☐ Yes ☑ No (describe) See Yellow Bluff log book for description		

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 7/30/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	097 cmH_2O	097 cmH_2O	☑ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	755 mmHg	754 mmHg	☑ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	31.9 °C	32.0 °C	☑ Yes ☐ No
Filter Sensor	± 2°C	31.7 °C	32.8 °C	☑ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.48 Lpm	16.70 Lpm	☑ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.48 Lpm	16.67 Lpm	☑ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	2153	Cassette Retrieval Date/Time:	8/1/12 0810
PM Cut Point	☐ PM-2.5 ☐ PM-10 (TSP)		
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.45
Start Date/Time	7/31/12 00:00	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	8/1/12 00:00		
Temperature (°C)	Max: 28.1	Min: 21.0	Avg: 24.4
Bar. Pressure (mm Hg)	Max: 758	Min: 752	Avg: 754
Field Blank Cassette ID	N/A	Sampler Flags[3]:	N/A
Trip Blank Cassette ID	N/A	Field Flags:	N/A
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: TSP

12-0562

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	2153
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635512
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**8/23/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informat	
Filter ID	
Weighing Lab	
Analyst/Custodian	
Shipment Date	
Sent to (PE Org)	
Date This Filter Must be Used by:	

Normally, the weighing laboratory completes Part I, keeps 1 copy and sen

PART II – FIELD OFFICE

Date Received: 7/25/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	7/30/12	PEP Field Scientist:	G. NOAH
Site Name & Description	YBB		
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:	8/6/12
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:	
AQS Site ID	YBB TSP1	POC:	1
Other Operators or Observers	MIKE CROWE		

Sampling Event Filter Data		
Sampling Date: 7/31/12	Retrieval Date: 8/1/12	Time: 8:10
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	R4 EPA
Shipped by	G. NOAH	Shipping Destination:	R4 LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient	

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBB POC: 1	Setup Date	8/01/12
Site Name	YBB TSP2	PEP Field Scientist	M. Crowe
GPS Latitude	___ ___ ___ . ___ ___ ___ ___	Primary SLT Sampler Serial No.	N/A
GPS Longitude	___ ___ ___ . ___ ___ ___ ___	PEP PQ200A Serial No.	0597

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI Delta Cal	0195	2/2/12
Temperature Standard			
Barometric Pressure Standard			
Flow Rate Standard			
Time Checks OK?	☑ Yes ☐ No (describe)		
Monitoring Site Criteria OK?	☐ Yes ☑ No (describe) See YB logbook		

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date:
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	097 cmH_2O	097 cmH_2O	☑ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	757 mmHg	755 mmHg	☑ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	26.4 °C	25.9 °C	☑ Yes ☐ No
Filter Sensor	± 2°C	26.6 °C	27.3 °C	☑ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.55 Lpm	16.72 Lpm	☑ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.55 Lpm	16.67 Lpm	☑ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	2313	Cassette Retrieval Date/Time:	8/2/12 11:25
PM Cut Point	☐ PM-2.5 ☐ PM-10 TSP		
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☑ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.7	CV: 0.50
Start Date/Time	8/1/12 11:00	**Data Download OK?**	☑ Yes ☐ No (describe)
Stop Date/Time	8/2/12 11:00		
Temperature (°C)	Max: 36.9	Min: 23.4	Avg: 29.0
Bar. Pressure (mm Hg)	Max: 755	Min: 752	Avg: 753
Field Blank Cassette ID	N/A	Sampler Flags[3]: none	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: YBB TSP 2

12-0562

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	2313
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635507
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/23/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informat	
Filter ID	
Weighing Lab	
Analyst/Custodian	
Shipment Date	
Sent to (PE Org)	
Date This Filter Must be Used by:	F

Normally, the weighing laboratory completes Part I, keeps 1 copy and sen

PART II – FIELD OFFICE

Date Received: 7/25/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	8/1/12	PEP Field Scientist:	G. NOAH
Site Name & Description	YBB		
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:	
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:	
AQS Site ID	YBB TSP 2	POC:	1
Other Operators or Observers	MIKE CLONE		

Sampling Event Filter Data		
Sampling Date: 8/1/12	Retrieval Date: 8/2/12	Time: 11:25
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	RY EPA
Shipped by	G. NOAH	Shipping Destination:	RY LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBB POC: 1	Setup Date	8/1/12
Site Name	YBB 252	PEP Field Scientist	G. NOAH
GPS Latitude	__ __ __ . __ __ __ __	Primary SLT Sampler Serial No.	N/A
GPS Longitude	__ __ __ . __ __ __ __	PEP PQ200A Serial No.	0587

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI DELTACAL	0195	2/2/12
Temperature Standard			
Barometric Pressure Standard			
Flow Rate Standard			

Time Checks OK?	☒ Yes ☐ No (describe)
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 8/1/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	101 cmH_2O	101 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	759 mmHg	759 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	26.3 °C	25.6 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	26.3 °C	26.6 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.70 Lpm	16.67 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.70 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	1581	Cassette Retrieval Date/Time: 8/2/12 11:16	
PM Cut Point	☒ PM-2.5 ☐ PM-10		
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.56
Start Date/Time	8/1/12 11:00	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	8/2/12 11:00		
Temperature (°C)	Max: 32.6	Min: 23.8	Avg: 29.5
Bar. Pressure (mm Hg)	Max: 760	Min: 756	Avg: 757
Field Blank Cassette ID	N/A	Sampler Flags[3]: P *	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: * Unplugged after run to power computer. Not a flag.

12-0562

PEP Chain-of-Custody F

Filter Weighing and Shipping Information	
Filter Cassette No.	1581
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635501
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**8/23/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Information		
Filter ID		F
Weighing Lab		
Analyst/Custodian		T
Shipment Date		
Sent to (PE Org)		Sh
Date This Filter Must be Used by:		Ret

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends 2

PART II – FIELD OFFICE

Date Received: 7/25/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	8/1/12	PEP Field Scientist: G. NOAH
Site Name & Description	YBB	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.: G 8/6/12
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:
AQS Site ID	YBB 252	POC: 1
Other Operators or Observers	MIKE CROWE	

Sampling Event Filter Data		
Sampling Date: 8/1/12	Retrieval Date: 8/2/12	Time: 11:16
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☒ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☒ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	EPA RY
Shipped by	G. NOAH	Shipping Destination:	RY LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:	Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBB POC: 1	Setup Date	8/1/12
Site Name	YBB 102	PEP Field Scientist	M. Crowe
GPS Latitude	___ ___ ___ . ___ ___ ___ ___ ___	Primary SLT Sampler Serial No.	N/A
GPS Longitude	___ ___ ___ . ___ ___ ___ ___ ___	PEP PQ200A Serial No.	~~095~~ 0590

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI Delta Cal	0195	2/2/12
Temperature Standard			
Barometric Pressure Standard		CN 8/1/12	
Flow Rate Standard			
Time Checks OK?	☑ Yes ☐ No (describe)		
Monitoring Site Criteria OK?	~~☑ Yes~~ SEE 8/6/12 ☑ No (describe) SEE QAPP		

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 8/1/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	097 cmH_2O	096 cmH_2O	☑ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	757 mmHg	755 mmHg	☑ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	26.4 °C	25.8 °C	☑ Yes ☐ No
Filter Sensor	± 2°C	26.2 °C	26.5 °C	☑ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.61 Lpm	16.70 Lpm	☑ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.61 Lpm	16.67 Lpm	☑ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	1207	Cassette Retrieval Date/Time: 8/2/12 11:21	
PM Cut Point	☐ PM-2.5 ☑ PM-10		
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☑ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV:
Start Date/Time	8/1/12 11:00	**Data Download OK?**	☑ Yes ☐ No (describe)
Stop Date/Time	8/2/12 11:00		
Temperature (°C)	Max: 37.3	Min: 23.5	Avg: 29.2
Bar. Pressure (mm Hg)	Max: 756	Min: 752	Avg: 753
Field Blank Cassette ID	N/A	Sampler Flags[3]: none	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

12-0562

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	1207
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635508
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/23/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatic		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		Re

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 7/25/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	8/1/12	PEP Field Scientist: G. NOAH
Site Name & Description	YBB	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.: 8/6/12
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:
AQS Site ID	YBB 102	POC: 1
Other Operators or Observers	MIKE CROWE	

Sampling Event Filter Data		
Sampling Date: 8/1/12	Retrieval Date: 8/2/12	Time: 11:21
Event Filter Integrity: ☒ OK ☐ Reject (describe)		
Sample Type		
☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)		
☐ CO - Collocated PEP ☐ Expired Filter (not used)		
☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)		
☐ Void (why?)		
PEP Cut Point: ☐ PM-2.5 ☒ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC	

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation: RU EPA	
Shipped by	G. NOAH	Shipping Destination: RU LAB	
Tracking No.	—	Shipping Company: —	

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient	

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBB POC: 1	Setup Date	8/2/12
Site Name	YBB 103	PEP Field Scientist	M. Crowe
GPS Latitude	___ ___ . ___ ___ ___ ___	Primary SLT Sampler Serial No.	N/A
GPS Longitude	___ ___ . ___ ___ ___ ___	PEP PQ200A Serial No.	0590

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI DeltaCal	0195	2/2/12
Temperature Standard			
Barometric Pressure Standard		8/3/12	
Flow Rate Standard			
Time Checks OK?	☒ Yes ☐ No (describe)		
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe) SEE QAPP		

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 8/2/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	118 cmH_2O	117 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	756 mmHg	755 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	28.9 °C	28.7 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	29.6 °C	29.8 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.48 Lpm	16.67 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.48 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	10026	Cassette Retrieval Date/Time:	
PM Cut Point	☐ PM-2.5 ☒ PM-10	8/3/12 12:07	
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.48
Start Date/Time	8/2/12 12:00	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	8/3/12 12:00		
Temperature (°C)	Max: 31.4	Min: 22.4	Avg: 26.2
Bar. Pressure (mm Hg)	Max: 756	Min: 752	Avg: 753
Field Blank Cassette ID	N/A	Sampler Flags[3]: N/A	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: YBB, Day 3 PM_{10}

12-0562

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	10026
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635500
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/23/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatio		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		Re

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 7/25/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	8/2/12	PEP Field Scientist:	G. NOAH
Site Name & Description	YBB		
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.	8/6/12
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:	
AQS Site ID	YBB 103	POC:	1
Other Operators or Observers	MIKE CROWE		

Sampling Event Filter Data		
Sampling Date: 8/2/12	Retrieval Date: 8/3/12	Time: 12:07
Event Filter Integrity: ☒ OK ☐ Reject (describe)		
Sample Type		
☒ RO - Routine	☐ FB - Field Blank (RO Cassette ID:_____)	☐ Other (describe)
☐ CO - Collocated PEP	☐ Expired Filter (not used)	
☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)		
☐ Void (why?)		
PEP Cut Point: ☐ PM-2.5 ☒ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC	

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	PM. EPA
Shipped by	G. NOAH	Shipping Destination:	PM LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:	Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBB POC: 1	Setup Date	8/2/12
Site Name	YBB 253	PEP Field Scientist	M. Crowe
GPS Latitude	___ . ___	Primary SLT Sampler Serial No.	N/A
GPS Longitude	___ . ___	PEP PQ200A Serial No.	0587

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI DeltaCal	0195	2/2/12
Temperature Standard			
Barometric Pressure Standard			
Flow Rate Standard		8/2/12	
Time Checks OK?	☑ Yes ☐ No (describe)		
Monitoring Site Criteria OK?	☐ Yes ☒ No (describe) SEE QAPP		

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 8/2/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	105 cmH_2O	104 cmH_2O	☑ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	756 mmHg	759 mmHg	☑ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	29.1 °C	28.9 °C	☑ Yes ☐ No
Filter Sensor	± 2°C	29.7 °C	30.4 °C	☑ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.57 Lpm	16.67 Lpm	☑ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.57 Lpm	16.67 Lpm	☑ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	8833	Cassette Retrieval Date/Time: 8/3/12 12:04	
PM Cut Point	☑ PM-2.5 ☐ PM-10		
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.02		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.40
Start Date/Time	8/2/12 12:00	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	8/3/12 12:00		
Temperature (°C)	Max: 31.6	Min: 22.7	Avg: 26.5
Bar. Pressure (mm Hg)	Max: 761	Min: 756	Avg: 758
Field Blank Cassette ID	N/A	Sampler Flags[3]: P	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: P FLAG NOT ASSOCIATED WITH THE RUN. OCCURRED PLUGGING IN COMPUTER.

12-0562

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	8833
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635499
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/23/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informati	
Filter ID	
Weighing Lab	
Analyst/Custodian	
Shipment Date	
Sent to (PE Org)	
Date This Filter Must be Used by:	R

Normally, the weighing laboratory completes Part I, keeps 1 copy and sena

PART II – FIELD OFFICE

Date Received: 7/25/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	8/2/12	PEP Field Scientist:	G. NOAH
Site Name & Description	YBB		
Primary SLT PM-2.5 Sampler	~~Make/Model:~~ GV	Serial No.: 8/6/12	
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:	
AQS Site ID	YBB 153	POC:	1
Other Operators or Observers	MIKE CROWE		

Sampling Event Filter Data		
Sampling Date: 8/2/12	Retrieval Date: 8/3/12	Time: 12:04
Event Filter Integrity: ☒ OK ☐ Reject (describe)		
Sample Type		
☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)		
☐ CO - Collocated PEP ☐ Expired Filter (not used)		
☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)		
☐ Void (why?)		
PEP Cut Point: ☒ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☒ WINS ☐ VSCC	

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	RU EPA
Shipped by	G. NOAH	Shipping Destination:	RU LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

12-0562

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBB POC: 1	Setup Date	8/2/12
Site Name	YBB TSP3	PEP Field Scientist	G. NOAH
GPS Latitude	___ ___ ___ . ___ ___ ___ ___	Primary SLT Sampler Serial No.	N/A
GPS Longitude	___ ___ ___ . ___ ___ ___ ___	PEP PQ200A Serial No.	0597

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI DELTACAL	0195	2/2/12
Temperature Standard		GN 8/2/12	
Barometric Pressure Standard			
Flow Rate Standard			

Time Checks OK?	☒ Yes ☐ No (describe)
Monitoring Site Criteria OK?	☒ Yes ☒ No (describe) SEE GRAP

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 8/2/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	101 cmH_2O	101 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard** 8/2	**Sampler** 8/2	**Verification OK?**
Ambient	± 10 mmHg	756 ~~29.4~~ mmHg	755 ~~28.4~~ mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	29.4 °C	28.4 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	29.2 °C	29.8 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.47 Lpm	16.65 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.47 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	1412	Cassette Retrieval Date/Time:	
PM Cut Point	☐ PM-2.5 ☐ PM-10 TSP	8/3/12 12:00	
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.53
Start Date/Time	8/2/12 12:00	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	8/3/12 12:00		
Temperature (°C)	Max: 30.9	Min: 22.2	Avg: 26.1
Bar. Pressure (mm Hg)	Max: 756	Min: 752	Avg: 753
Field Blank Cassette ID	N/A	Sampler Flags[3]: N/A	
Trip Blank Cassette ID	N/A	Field Flags: N/A	
Companion Cassette ID[4]	N/A		
Collocated Cassette ID(s)[5]	N/A		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: YBB, DAY 3 TSP

12-0562

PEP Chain-of-Custody I

Filter Weighing and Shipping Information	
Filter Cassette No.	1412
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635485
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	7/24/2012
Shipped by	Judy Maddox
Shipment Date	7/24/2012
FedEx Airbill No.	OUT072412
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	8/23/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatio		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		Sl
Date This Filter Must be Used by:		Rel

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 7/25/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	8/2/12	PEP Field Scientist:	G. NOAH
Site Name & Description	YBB		
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:	8/6/12
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:	
AQS Site ID	YBB TSP3	POC:	1
Other Operators or Observers	MIKE CROWE		

Sampling Event Filter Data		
Sampling Date: 8/2/12	Retrieval Date: 8/3/12	Time: 12:08
Event Filter Integrity: ☒ OK ☐ Reject (describe)		
Sample Type		
☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)		
☐ CO - Collocated PEP ☐ Expired Filter (not used)		
☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)		
☐ Void (why?)		
PEP Cut Point: ☐ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC	

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	8/3/12	Affiliation:	EPA R4
Shipped by	G. NOAH	Shipping Destination:	R4 LAB
Tracking No.	—	Shipping Company:	—

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient	

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes: