CAL EPA - STATES' COMMON MEASURES PROJECT
Group and Indicator Packet:

GROUP EVALUATION CHART:

STATE	California	GROUP			__ Would do	X__ Most Interested
Easier to Collect Good Data		*Easier*	*Somewhat difficult*	*More difficult*	***More Difficult to Collect Good Data***	
Consideration		**Complexity of Metrics**				
Single Media			X		Multi Media	
Regulatory or Good Practices Only		X			Both Regulatory and Good Practices	
Few requirements				X	Many Requirements	
Clear Cut Requirements		X			Subjective Requirements	
Complexity of Sector						
Similar Facilities				X	Diverse Facilities	
Small Universe				X	Large Universe	
Prior Experience With Sector						
Existing Sector		X			New Sector	
Existing Data System		X			No Data System	
Existing Common Definitions		X			No Common Definitions	
Known Universe		X			Unknown Universe	
Existing Checklists		X			No Checklists	
Historical Data		X			No Historical Data	
Similar requirements across states			X		Dissimilar requirements across states	
Other Considerations						
More Desirable/Easier Sector		*Most desirable*	*Somewhat desirable*	*Less desirable*	***Less Desirable/Harder Sector***	
Even distribution of facilities across states			X		Uneven distribution of facilities across states	
Important environmental concern			X		Lesser environmental concern	
Regulated by the states and EPA			X		State only sector	
Ability to link to an environmental outcome				X	Inability to link to an environmental outcome	
Facilities are sophisticated about environmental regulation		X			Facilities are unsophisticated about environmental regulation	
No language barriers			X		Language barriers	
Other (list:)						

STATES' COMMON MEASURES PROJECT
Group and Indicator Packet
INDICATOR EVALUATION CHARTS   page 1 of 1

STATE	California		GROUP	*Any*

#		**Indicator Description**	Regulatory Compliance		
	Data Source		Existing data systems		

Data Quality Indicator	good	Okay	Prob-lem	**Issue:**
Precision		X		
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias		X		
Validation		X		
Other issue:				

#		**Indicator Description**	TBD		
	Data Source				

Data Quality Indicator	good	Okay	Prob-lem	**Issue:**
Precision				
Sensitivity				
Representativeness				
Completeness				
Bias				
Validation				
Other issue:				

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Colorado - STATES' COMMON MEASURES PROJECT
Groups and Indicators Packet:

GROUP EVALUATION CHART:

STATE	Colorado	GROUP	Small Quantity Generators			__ Would do	_x_ Most Interested
Easier to Collect Good Data			*Easier*	*Somewhat difficult*	*More difficult*	**More Difficult to Collect Good Data**	
Consideration			**Complexity of Metrics**				
Single Media			x			Multi Media	
Regulatory or Good Practices Only			x			Both Regulatory and Good Practices	
Few requirements				x		Many Requirements	
Clear Cut Requirements				x		Subjective Requirements	
Complexity of Sector							
Similar Facilities					x	Diverse Facilities	
Small Universe					x	Large Universe	
Prior Experience With Sector							
Existing Sector			x			New Sector	
Existing Data System			x			No Data System	
Existing Common Definitions				x		No Common Definitions	
Known Universe			x			Unknown Universe	
Existing Checklists			x			No Checklists	
Historical Data			x			No Historical Data	
Similar requirements across states				x		Dissimilar requirements across states	
Other Considerations							
More Desirable/Easier Sector			*Most desirable*	*Somewhat desirable*	*Less desirable*	**Less Desirable/Harder Sector**	
Even distribution of facilities across states				x		Uneven distribution of facilities across states	
Important environmental concern				x		Lesser environmental concern	
Regulated by the states and EPA			x			State only sector	
Ability to link to an environmental outcome					x	Inability to link to an environmental outcome	
Facilities are sophisticated about environmental regulation				x		Facilities are unsophisticated about environmental regulation	
No language barriers				x		Language barriers	
Other (list:)							

STATE	Colorado			GROUP	*Hazardous Waste Small Quantity Generators*
# 1	**Indicator Description**	Facility did not exceed the timeliness thresholds for hazardous waste storage			
	Data Source	New inspection results or historic data			

Data Quality Indicator	good	Okay	Prob-lem	Issue:	
Precision	X			Non-compliance threshold is clearly defined. No lapses are allowed.	
Sensitivity	X			No issues due to yes/no answers.	
Representativeness	X			Good for new data. There is lots of historical data that could be useful but has the potential for variation because the SQGs were target inspections due geographic areas, sector work, or complaints.	
Completeness	X			Easy to gather complete information for every inspection	
Bias	X			Should be okay, provided proper training is given, if new inspections.	
Validation					
Other issue:					

# 2	**Indicator Description**	Facility did not exceed the quantity thresholds for hazardous waste storage.	
	Data Source	Inspection results on file and/or new data	

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as #1
Sensitivity	X			Same as #1
Representativeness	X			Same as #1
Completeness	X			Same as #1
Bias	X			Same as #1
Validation				
Other issue:				

STATE	Colorado			GROUP	*Hazardous Waste Small Quantity Generators*

#	3	**Indicator Description**	The facility maintained hazardous waste manifests and land disposal restriction paperwork that documented the proper shipment and disposal of all hazardous waste.

Data Source	

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision		X		What if something minor like HW rags are being thrown into trash?
Sensitivity	X			Same as indicator #1
Representativeness	X			Same as indicator #1
Completeness	X			Same as indicator #1
Bias	X			Same as indicator #1
Validation				
Other issue:				This EBPI would be to assess the overall performance of proper shipping, disposal, and record keeping. However it will not necessarily be an assessment of performance for proper disposal for ALL hazardous wastes. A facility could be manifesting the obvious HW off site but might be throwing HW solvent rags in the trash or illegally evaporating solvent. Colorado added a proper disposal EBPI to help further assess the performance of proper disposal. See #10.

#	4	**Indicator Description**	All hazardous waste containers are properly labeled

Data Source	Same as indicator #1

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Provided noncompliance threshold is clearly defined (e.g. ANY barrel with no label, or any barrel with a label that is incomplete or falling off)
Sensitivity	X			Same as indicator #1
Representativeness	X			Same as indicator #1
Completeness	X			Same as indicator #1
Bias	X			Same as indicator #1
Validation				
Other issue:				

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#	5	**Indicator Description**	All hazardous waste containers are in good condition			
		Data Source	Same as indicator #1			
Data Quality Indicator			**good**	**Okay**	**Prob-lem**	**Issue:**
Precision				X		Same as indicator 4, also "good condition" can be somewhat subjective-Colorado goes by no leaking, little rust, and no bulging.
Sensitivity			X			Same as indicator #1
Representativeness			X			Same as indicator #1
Completeness			X			Same as indicator #1
Bias			X			Same as indicator #1
Validation						
Other issue:						

STATE	**Colorado**			GROUP	*Small Quantity Generators*	
#	6	**Indicator Description**	All hazardous waste containers are kept closed except when being filled.			
		Data Source	Same as indicator #1			
Data Quality Indicator			**good**	**Okay**	**Prob-lem**	**Issue:**
Precision				X		Should be assessed as a snap funnel or secured closed lid=closed, i.e. if the container were knocked over would the contents spill out.
Sensitivity			X			Same as indicator #1
Representativeness			X			Same as indicator #1
Completeness			X			Same as indicator #1
Bias			X			Same as indicator #1
Validation						
Other issue:						Colorado uses this as an EBPI because it is a spill threat causing potential harm to the environment for air, ground, and water. Also it is an air and HW violation if solvent is evaporating.

STATE	Colorado			GROUP	*Small Quantity Generators*

#	7	**Indicator Description**	All hazardous waste containers are inspected weekly checking for leaks or deterioration.		
		Data Source	Same as indicator #1		

Data Quality Indicator	good	Okay	Prob-lem	**Issue:**
Precision		X		This would be checking to see if the facility knows they are supposed to do this. Could be subjective. (i.e. is being in the same room once per week conducting the inspection?)
Sensitivity	X			Same as indicator #1
Representativeness	X			Same as indicator #1
Completeness	X			Same as indicator #1
Bias	X			Same as indicator #1
Validation				
Other issue:				Not sure this is a great EBPI but it is a big penalty for Colorado because we can assess a 1-day penalty for each weekly inspection missed for the last 2 years. It would be a good training tool for the facilities to have this type of question on their self-audit if we include it as a data indicator.

#	8	**Indicator Description**	The facility operates in a way that minimizes the potential for releases of hazardous wastes. .i.e. HW containers are stored on a crack free surface that will contain leaks or spills and there is no evidence of significant releases outside the building.		
		Data Source	Same as Indicator 1		

Data Quality Indicator	good	Okay	Prob-lem	**Issue:**
Precision		X		"Crack free and stains" might be a subjective (i.e. many floors could be OK but not spotless or crack free).
Sensitivity	X			Same as indicator #1
Representativeness	X			Same as indicator #1
Completeness	X			Same as indicator #1
Bias	X			Same as indicator #1
Validation				
Other issue:				

# 9	**Indicator Description**	The facility has posted emergency coordinator names and telephone numbers, fire department telephone numbers, locations of fire alarms and extinguishers.			
Data Source		Same as indicator #1			
Data Quality Indicator	good	Okay	Prob-lem	**Issue:**	
Precision	X			Provided compliance threshold is clear (e.g. must meet all)	
Sensitivity		X		Need to clarify whether inspector must verify accuracy of posted info	
Representativeness	X			Same as indicator #1	
Completeness	X			Same as indicator #1	
Bias	X			Same as indicator #1	
Validation					
Other issue:				On our last survey Colorado separated out the ID of an EC and the postings. Could be done together but would be all or nothing.	

# 10	**Indicator Description**	The facility has properly disposed of all it's hazardous wastes. i.e. There is no evidence that hazardous waste has been disposed of in the trash, down the storm or sanitary sewer, or on the ground.			
Data Source					
Data Quality Indicator	good	Okay	Prob-lem	**Issue:**	
Precision		X		None	
Sensitivity		X		Could be minor like solvent rags going into the trash, or major like liquid solvent on the ground. Might be hard to evaluate in the sense of a major or minor threat.	
Representativeness	X			Same as indicator #1	
Completeness	X			Same as indicator #1	
Bias	X			Same as indicator #1	
Validation					
Other issue:					

#	11	Indicator Description	The facility has properly trained it's employees on the hazardous waste management requirements.			
		Data Source				
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision				X		None
Sensitivity					X	Hard to evaluate. Could be subjective.
Representativeness			x			Same as indicator #1
Completeness			x			Same as indicator #1
Bias			x			Same as indicator #1
Validation						
Other issue:						Colorado added this because we are changing our rules to require documentation of training for SQGs.

Colorado - STATES' COMMON MEASURES PROJECT
Groups and Indicators Packet:

GROUP EVALUATION CHART:

STATE	Colorado	GROUP	Auto Body or Auto Repair		X Would do	___ Most Interested

Easier to Collect Good Data	*Easier*	*Somewhat difficult*	*More difficult*	*More Difficult to Collect Good Data*		
Consideration	**Complexity of Metrics**					
Single Media	x			Multi Media		
Regulatory or Good Practices Only	x			Both Regulatory and Good Practices		
Few requirements		x		Many Requirements		
Clear Cut Requirements		x		Subjective Requirements		
Complexity of Sector						
Similar Facilities			x	Diverse Facilities		
Small Universe			x	Large Universe		
Prior Experience With Sector						
Existing Sector	x			New Sector		
Existing Data System	x			No Data System		
Existing Common Definitions		x		No Common Definitions		
Known Universe	x			Unknown Universe		
Existing Checklists	x			No Checklists		
Historical Data	x			No Historical Data		
Similar requirements across states		x		Dissimilar requirements across states		
Other Considerations						

More Desirable/Easier Sector	*Most desirable*	*Somewhat desirable*	*Less desirable*	*Less Desirable/Harder Sector*		
Even distribution of facilities across states		x		Uneven distribution of facilities across states		
Important environmental concern		x		Lesser environmental concern		
Regulated by the states and EPA	x			State only sector		
Ability to link to an environmental outcome		x		Inability to link to an environmental outcome		
Facilities are sophisticated about environmental regulation		x		Facilities are unsophisticated about environmental regulation		
No language barriers		x		Language barriers		
Other (list:)						

STATE	Colorado		GROUP	*Auto Body or Auto Repair*

#	1	**Indicator Description**	Facility did not exceed the timeliness thresholds for hazardous waste storage		
		Data Source	New inspection results or historic data		

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Non-compliance threshold is clearly defined. No lapses are allowed.
Sensitivity	X			No issues due to yes/no answers.
Representativeness	X			Good for new data. There is some historical data that could be useful but has a potential risk because the auto body shops were only target inspections due to geographical interests, sector work, or complaints.
Completeness	X			Easy to gather complete information for every inspection
Bias	X			Should be okay, provided proper training is given, if new inspections.
Validation				
Other issue:				

#	2	**Indicator Description**	Facility did not exceed the quantity thresholds for hazardous waste storage		
		Data Source	Inspection results on file and/or new data		

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as #1
Sensitivity	X			Same as #1
Representativeness	X			Same as #1
Completeness	X			Same as #1
Bias	X			Same as #1
Validation				Same as #1

STATE	Colorado		GROUP	*Auto Body or Auto Repair*

#	3	**Indicator Description**	The facility maintained hazardous waste manifests that documented the proper shipment and disposal of all hazardous waste.

Data Source	

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as indicator #1
Sensitivity	X			Same as indicator #1
Representativeness	X			Same as indicator #1
Completeness	X			Same as indicator #1
Bias	X			Same as indicator #1
Validation				
Other issue:				This EBPI would be to assess the overall performance of proper shipping, disposal, and record keeping. However it will not necessarily be an assessment of performance for proper disposal for ALL hazardous wastes. A facility could be manifesting the obvious HW off site but might be throwing HW solvent rags in the trash or illegally evaporating solvent. Colorado added a proper disposal EBPI to help further assess the performance of proper disposal. See #10.

#	4	**Indicator Description**	All hazardous waste containers are properly labeled

Data Source	Same as indicator #1

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Provided noncompliance threshold is clearly defined (e.g. ANY barrel with no label, or any barrel with a label that is incomplete or falling off)
Sensitivity	X			Same as indicator #1
Representativeness	X			Same as indicator #1
Completeness	X			Same as indicator #1
Bias	X			Same as indicator #1
Validation				
Other issue:				

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#	5	Indicator Description	All hazardous waste containers are in good condition			
		Data Source	Same as indicator #1			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision				X		Same as indicator 4, also "good condition" can be somewhat subjective-we go by no leaking, little rust, and no bulging.
Sensitivity			X			Same as indicator #1
Representativeness			X			Same as indicator #1
Completeness			X			Same as indicator #1
Bias			X			Same as indicator #1
Validation						
Other issue:						

#	6	Indicator Description	All hazardous waste containers are kept closed except when being filled.			
		Data Source	Same as indicator #1			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision				X		Should be assessed as a snap funnel or secured closed lid=closed, i.e. if the container were knocked over would the contents spill out.
Sensitivity			X			Same as indicator #1
Representativeness			X			Same as indicator #1
Completeness			X			Same as indicator #1
Bias			X			Same as indicator #1
Validation						
Other issue:						Colorado uses this as an EBPI because it is a spill threat causing potential harm to the environment for air, ground, and water. Also it is an air and HW violation if solvent is evaporating.

#	7	**Indicator Description**	The facility operates in a way that minimizes the potential for releases of hazardous wastes. .i.e. are HW containers are stored on a crack free surface that will contain leaks or spills. There is no evidence of significant releases outside the building on the ground.

Data Source			Same as Indicator 1

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Crack free and stains" might be a subjective (i.e. many floors could be OK but not spotless or crack free).
Sensitivity	X			Same as #1
Representativeness	X			Same as #1
Completeness	X			Same as #1
Bias	X			Same as #1
Validation				
Other issue:				

#	8	**Indicator Description**	The facility has posted emergency coordinator names and telephone numbers, fire department telephone numbers, locations of fire alarms and extinguishers and evacuation routes

Data Source			Same as indicator #1

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Provided compliance threshold is clear (e.g. must meet all)
Sensitivity		X		Need to clarify whether inspector must verify accuracy of posted info
Representativeness	X			Same as indicator #1
Completeness	X			Same as indicator #1
Bias	X			Same as indicator #1
Validation				
Other issue:				On our last survey Colorado separated out the ID of an EC and the postings. Could be done together but would be all or nothing.

#	9	Indicator Description	The facility has properly disposed of all it's hazardous wastes.			
		Data Source				
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			None
Sensitivity				X		Could be minor like solvent rags going into the trash, or major like liquid solvent on the ground. Might be hard to evaluate.
Representativeness			X			Same as #1
Completeness			X			Same as #1
Bias			X			Same as #1
Validation						
Other issue:						

STATES' COMMON MEASURES PROJECT
Group and Indicator Packet

GROUP EVALUATION CHART:

STATE	Connecticut	GROUP	SQG		__ Would do	_x Most Interested
Easier to Collect Good Data		*Easier*	*Somewhat difficult*	*More difficult*	*More Difficult to Collect Good Data*	

Consideration	**Complexity of Metrics**					
Single Media		x			Multi Media	
Regulatory or Good Practices Only		x			Both Regulatory and Good Practices	
Few requirements			x		Many Requirements	
Clear Cut Requirements			x		Subjective Requirements	

Complexity of Sector						
Similar Facilities				x	Diverse Facilities	
Small Universe				x	Large Universe	

Prior Experience With Sector						
Existing Sector		x			New Sector	
Existing Data System		x			No Data System	
Existing Common Definitions				x	No Common Definitions	
Known Universe		x			Unknown Universe	
Existing Checklists		x			No Checklists	
Historical Data		x			No Historical Data	
Similar requirements across states				x	Dissimilar requirements across states	

Other Considerations						
More Desirable/Easier Sector		*Most desirable*	*Somewhat desirable*	*Less desirable*	*Less Desirable/Harder Sector*	
Even distribution of facilities across states			x		Uneven distribution of facilities across states	
Important environmental concern			x		Lesser environmental concern	
Regulated by the states and EPA			x		State only sector	
Ability to link to an environmental outcome				x	Inability to link to an environmental outcome	
Facilities are sophisticated about environmental regulation			x		Facilities are unsophisticated about environmental regulation	
No language barriers			x		Language barriers	
Other (list:)						

STATE	CT			GROUP	*SQGs*

#	1	**Indicator Description**	Are employees trained to their level of responsibility?		
		Data Source	Data collected on site visits by summer interns for 3 years		

Data Quality Indicator	good	Okay	Prob-lem	**Issue: Main issue is that CT has some requirements for SQGs that are more stringent than the federal requirement and therefore may not be consistent with other states**
Precision		X		Dependent on the knowledge of the inspector
Sensitivity		X		
Representativeness	X			Over 3 years, nearly all SQGs have been visited
Completeness	X			
Bias	X			Sites were randomly selected
Validation				

#	2	**Indicator Description**	Are inspections of hazardous waste storage areas being conducted and documented?		
		Data Source	Data collected on site visits by summer interns for three years		

Data Quality Indicator	good	Okay	Prob-lem	**Issue:**
Precision		X		
Sensitivity		X		2 part question could be problematic-they could conduct, but not document
Representativeness	X			
Completeness	X			
Bias	X			
Validation				

#	3	**Indicator Description**	Are all containers of hazardous waste labeled with the words "Hazardous Waste" and a description of their contents.		
		Data Source	Data collected on site visits by summer interns for 3 years		

Data Quality Indicator	good	Okay	Prob-lem	**Issue:**
Precision		X		
Sensitivity		X		Another 2 part question
Representativeness	X			
Completeness	X			
Bias	X			
Validation				

STATE	CT		**GROUP**	SQG

#	4	**Indicator Description**	Is there at least three feet of aisle space between containers
		Data Source	Data collected on site visits by summer interns for three years

Data Quality Indicator	good	Okay	Prob-lem	**Issue:**
Precision		X		
Sensitivity		X		
Representativeness	X			
Completeness	X			
Bias	X			
Validation				

#	5	**Indicator Description**	IS the hazardous waste being stored in containers that are closed and free of significant damage
		Data Source	Data collected on site visits by summer interns

Data Quality Indicator	good	Okay	Prob-lem	**Issue:**
Precision		X		
Sensitivity		X		
Representativeness	X			
Completeness	X			
Bias	X			
Validation				

#	6	**Indicator Description**	Have hazardous waste determinations been conducted on all waste streams?
		Data Source	

Data Quality Indicator	good	Okay	Prob-lem	**Issue:**
Precision		X		
Sensitivity		X		
Representativeness	X			
Completeness	X			
Bias	X			
Validation				

MA DEP - STATES' COMMON MEASURES PROJECT
Group and Indicator Packet:

GROUP EVALUATION CHART:

STATE	Massachusetts	GROUP	Autobody		_X_ Would do	__ Most Interested
Easier to Collect Good Data		*Easier*	*Somewhat difficult*	*More difficult*	*More Difficult to Collect Good Data*	
Consideration		**Complexity of Metrics**				
Single Media				X	Multi Media	
Regulatory or Good Practices Only		X			Both Regulatory and Good Practices	
Few requirements			X		Many Requirements	
Clear Cut Requirements		X			Subjective Requirements	
		Complexity of Sector				
Similar Facilities		X			Diverse Facilities	
Small Universe				X	Large Universe	
		Prior Experience With Sector				
Existing Sector			X		New Sector	
Existing Data System			X		No Data System	
Existing Common Definitions			X		No Common Definitions	
Known Universe				X	Unknown Universe	
Existing Checklists			X		No Checklists	
Historical Data				X	No Historical Data	
Similar requirements across states			X		Dissimilar requirements across states	
		Other Considerations				
More Desirable/Easier Sector		*Most desirable*	*Somewhat desirable*	*Less desirable*	*Less Desirable/Harder Sector*	
Even distribution of facilities across states			X		Uneven distribution of facilities across states	
Important environmental concern			X		Lesser environmental concern	
Regulated by the states and EPA			X		State only sector	
Ability to link to an environmental outcome			X		Inability to link to an environmental outcome	
Facilities are sophisticated about environmental regulation				X	Facilities are unsophisticated about environmental regulation	
No language barriers			X		Language barriers	
Other (list:)						

STATES' COMMON MEASURES PROJECT
Group and Indicator Packet
INDICATOR EVALUATION CHARTS

STATE	Massachusetts	GROUP	Autobody

#	1	Indicator Description	Use same hazardous waste indicators as for small quantity generators.
		Data Source	(see hazardous waste small quantity generator indicators charts)

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision				
Sensitivity				
Representativeness				
Completeness				
Bias				
Validation				
Other issue:				

#	2	Indicator Description	Industrial wastewater (e.g. wash water) is discharged in compliance with surface water groundwater or sewer discharge standards.
		Data Source	

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Inspector observations, questions and records
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			
Other issue:				

STATE	Massachusetts		GROUP	Autobody

#	3	Indicator Description	Paint spray guns use either electrostatic spray application method or High Volume Low Pressure (HVLP) application method.			
		Data Source				Field observations
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			Inspectors must be trained about methods and observe operations.
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

#	4	Indicator Description	Paint spray booth achieves particulate control efficiency of 97% by weight.			
		Data Source				Field observations
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			Inspectors must be trained to observe operations.
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

STATE	Massachusetts		GROUP	Autobody

#	5	Indicator Description	The face velocity of air at the filter shall not exceed 200 feet per minute.			
		Data Source	Field observations			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision						
Sensitivity						
Representativeness						
Completeness						
Bias						
Validation						
Other issue:						Need more information

#	6	Indicator Description	The VOC content of any preparation/cleanup solution does not exceed 1.67 pound per gallon.			
		Data Source	Field observations			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision			X			Inspector must look at container or MSDS sheets.
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

STATE	Massachusetts		GROUP	Autobody

#	7	Indicator Description	Spray gun cleaning is performed in a totally enclosed gun washer system.

Data Source	Field observations

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision				
Sensitivity				
Representativeness				
Completeness				
Bias				
Validation				
Other issue:				

#	8	Indicator Description	Cleanup solutions are stored in a container with a tight fitting cover.

Data Source	Field observations

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			

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STATE	Massachusetts		**GROUP**	Autobody

#	9	**Indicator Description**	The stack conforms with regulatory standards

		Data Source	Field observations

Data Quality Indicator	good	Okay	Prob-lem	**Issue:**
Precision	X			Inspector must be trained on standards.
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			
Other issue:				

#	10	**Indicator Description**	Emissions from stack have 0% opacity.

		Data Source	Field observations

Data Quality Indicator	good	Okay	Prob-lem	**Issue:**
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness		X		Possibly not operating during inspection.
Bias	X			
Validation	X			
Other issue:				

STATE	Massachusetts		GROUP	Autobody

#	11	Indicator Description	Sufficient records are maintained to demonstrate compliance.		
		Data Source			

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness		X		Must have a common understanding of how complete records must be
Bias		X		Some judgement on what is sufficient.
Validation	X			
Other issue:				

MA DEP - STATES' COMMON MEASURES PROJECT
Group and Indicator Packet:

GROUP EVALUATION CHART:

STATE	Massachusetts	GROUP	Dentists		__ Would do	_X_ Most Interested
Easier to Collect Good Data		*Easier*	*Somewhat difficult*	*More difficult*	*More Difficult to Collect Good Data*	
Consideration			**Complexity of Metrics**			
Single Media			X		Multi Media	
Regulatory or Good Practices Only		X			Both Regulatory and Good Practices	
Few requirements		X			Many Requirements	
Clear Cut Requirements		X			Subjective Requirements	
			Complexity of Sector			
Similar Facilities		X			Diverse Facilities	
Small Universe			X		Large Universe	
			Prior Experience With Sector			
Existing Sector		X			New Sector	
Existing Data System		X			No Data System	
Existing Common Definitions				X	No Common Definitions	
Known Universe			X		Unknown Universe	
Existing Checklists		X			No Checklists	
Historical Data			X		No Historical Data	
Similar requirements across states				X	Dissimilar requirements across states	
			Other Considerations			
More Desirable/Easier Sector		*Most desirable*	*Somewhat desirable*	*Less desirable*	*Less Desirable/Harder Sector*	
Even distribution of facilities across states		X			Uneven distribution of facilities across states	
Important environmental concern		X			Lesser environmental concern	
Regulated by the states and EPA				X	State only sector	
Ability to link to an environmental outcome			X		Inability to link to an environmental outcome	
Facilities are sophisticated about environmental regulation			X		Facilities are unsophisticated about environmental regulation	
No language barriers		X			Language barriers	
Other (list:)						
Not many states have a program				X		

STATES' COMMON MEASURES PROJECT
Group and Indicator Packet
INDICATOR EVALUATION CHARTS

STATE	Massachusetts		GROUP	Dentists

#	1	Indicator Description	The facility has installed an amalgam separator system (ASS) according to manufacturer's specifications that serves all chairs and cuspidors

	Data Source	Field observation

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Assuming field observations
Sensitivity	X			
Representativeness	X			Assuming random sample
Completeness	X			
Bias			X	If use voluntary certification data only
Validation	X			
Other issue:				

#	2	Indicator Description	The ASS is appropriately sized (given the number of chairs and flow rates)

	Data Source	Field observation

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Inspector would need training/information on ASS models and performance levels
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			
Other issue:				

STATE	Massachusetts		GROUP	Dentists

#	3	Indicator Description	The ASS meets the regulatory or voluntary program efficiency standards.			
		Data Source				Field observations
Data Quality Indicator		good	Okay	Prob-lem	**Issue:**	
Precision		X			Clear, need to identify ASS specs in the field or have knowledge of ISO certification standards.	
Sensitivity		X				
Representativeness		X				
Completeness		X				
Bias		X				
Validation		X				
Other issue:						

#	4	Indicator Description	The facility properly operates and maintains the ASS according to manufacturer specifications (including cartridge changes and regular service).			
		Data Source				Field observations
Data Quality Indicator		good	Okay	Prob-lem	**Issue:**	
Precision			X		Need to understand specifications for ASS and ask questions or observe records to determine.	
Sensitivity			X			
Representativeness		X				
Completeness		X				
Bias			X			
Validation		X				
Other issue:						

STATE	Massachusetts		GROUP	Dentists

#	5	**Indicator Description**	The facility stores all amalgam waste it generates in containers that are sealed and structurally sound.

Data Source	Field observations

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			

#	6	**Indicator Description**	The facility has at least one person who is familiar with the procedures to follow to ensure compliance with the ASS standards and operation and maintenance requirements.

Data Source	Field observations

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision		X		Inspector must question the person to judge performance with indicator.
Sensitivity		X		
Representativeness	X			
Completeness	X			
Bias		X		
Validation	X			
Other issue:				

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STATE	Massachusetts		GROUP	Dentists

#	7	**Indicator Description**	The facility recycles all the amalgam waste it generates at the location (from separators, screens and traps, and material unused in procedures).			
		Data Source	Field observations			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			Inspector questions, observations and records
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

#	8	**Indicator Description**	The facility has records that show the amalgam was shipped to an authorized recycler.			
		Data Source	Field observations			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			Records – yes or no. "authorized recycler" determination may require investigation
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation						
Other issue:						

STATE	Massachusetts		GROUP	Dentists

#	9	**Indicator Description**	The facility uses only non-oxidizing treatments or cleaners with pH between 6.5 and 9 when maintaining (e.g. flushing or cleaning) vacuum system lines.

Data Source	Field observation

Data Quality Indicator	good	Okay	Prob-lem	**Issue:**
Precision	X			Inspector observes cleaner information/specifications
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			
Other issue:				

#	10	**Indicator Description**	The facility maintains records demonstrating compliance with standards operation and maintenance requirements, and shipping and recycling.

Data Source	

Data Quality Indicator	good	Okay	Prob-lem	**Issue:**
Precision	X			Need to decide how complete records must be.
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias		X		
Validation	X			
Other issue:				

ME DEP - STATES' COMMON MEASURES PROJECT
Groups and Indicators Packet:

GROUP EVALUATION CHART:

STATE	Maine	GROUP	Small Quantity Generators-Auto body Sector		__ Would do	_x_ Most Interested
Easier to Collect Good Data			*Easier*	*Somewhat difficult*	*More difficult*	**More Difficult to Collect Good Data**
Consideration				**Complexity of Metrics**		
Single Media					x	Multi Media
Regulatory or Good Practices Only					x	Both Regulatory and Good Practices
Few requirements					x	Many Requirements
Clear Cut Requirements			x			Subjective Requirements
				Complexity of Sector		
Similar Facilities			x			Diverse Facilities
Small Universe			x			Large Universe
				Prior Experience With Sector		
Existing Sector			x			New Sector
Existing Data System			x			No Data System
Existing Common Definitions			x			No Common Definitions
Known Universe			x			Unknown Universe
Existing Checklists			x			No Checklists
Historical Data			x			No Historical Data
Similar requirements across states				x		Dissimilar requirements across states
				Other Considerations		
More Desirable/Easier Sector			*Most desirable*	*Somewhat desirable*	*Less desirable*	**Less Desirable/Harder Sector**
Even distribution of facilities across states				X		Uneven distribution of facilities across states
Important environmental concern				X		Lesser environmental concern
Regulated by the states and EPA			x			State only sector
Ability to link to an environmental outcome			x			Inability to link to an environmental outcome
Facilities are sophisticated about environmental regulation				x		Facilities are unsophisticated about environmental regulation
No language barriers				x		Language barriers
Other (list:)						

STATE	Maine		GROUP	*Hazardous Waste Small Quantity Generators-Auto Body*

#	1	**Indicator Description**	Facility did not exceed the timeliness thresholds for hazardous waste storage		
		Data Source	New inspection results or historic data from auto body sector		

Data Quality Indicator	good	Okay	Probem	Issue:
Precision	x			If noncompliance threshold is clearly defined in terms of time period assessed (e.g. past X yrs) and if any lapses are allowed (e.g. NO exceedances at all)
Sensitivity	x			Sensitivity is not an issue because of yes / no answers
Representativeness	x			Good.
Completeness	x			Consistent checklist used during each inspection
Bias		x		Southern Maine Region coverage of inspections
Validation	x			Follow up inspections through ERP model
Other issue:				

#	2	**Indicator Description**	Facility did not exceed the quantity thresholds for hazardous waste storage		
		Data Source	Same as indicator #1		

Data Quality Indicator	good	Okay	Problem	Issue:
Precision	x			Same as #1
Sensitivity	x			Same as #1
Representativeness	x			Same as #1
Completeness	x			Same as #1
Bias		x		Same as #1
Validation	x			Same as #1
Other issue:				

STATE	Maine		GROUP	*Hazardous Waste Small Quantity Generators-Auto Body*

#	3	Indicator Description	The facility manifested all hazardous wastes and used a licensed transporter			
		Data Source	Same as indicator #1			
Data Quality Indicator			good	Okay	Problem	**Issue:**
Precision			X			Good, file search
Sensitivity			X			Same as #1
Representativeness			X			Same as #1
Completeness			X			Same as #1
Bias				X		Same as #1
Validation			X			Same as #1
Other issue:						

#	4	Indicator Description	All hazardous waste containers are properly labeled			
		Data Source	Same as indicator #1			
Data Quality Indicator			good	Okay	Problem	**Issue:**
Precision			X			ANY barrel with no label, or any barrel with a label that is incomplete or falling off
Sensitivity			X			Same as #1
Representativeness			X			Same as #1
Completeness			X			Same as #1
Bias				X		Same as #1
Validation			X			Same as #1

#	5	Indicator Description	All hazardous waste containers are closed			
		Data Source	Same as indicator #1			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			Good, container cover check method is consistent
Sensitivity			X			Same as #1
Representativeness			X			Same as #1
Completeness			X			Same as #1
Bias				X		Same as #1
Validation			X			Same as #1

STATE	Maine		GROUP	*Hazardous Waste Small Quantity Generators-Auto Body*

#	6	Indicator Description	**Does the shop containerize the wastes (like rags and other absorbent material) generated from cleanups of hazardous waste spills and treat or dispose of it as hazardous waste?**			
		Data Source				
Data Quality Indicator			**good**	**Okay**	**Prob-lem**	**Issue:**
Precision			X			Good, observable during inspection
Sensitivity			X			Same as #1
Representativeness			X			Same as #1
Completeness			X			Same as #1
Bias				X		Same as #1
Validation			X			Same as #1

#	7	Indicator Description	Does the shop train all employees in the proper use and handling of paints and coatings according to the manufacturers' recommendations to minimize air emissions?			
		Data Source	Same as Indicator 1			
Data Quality Indicator			**good**	**Okay**	**Prob-lem**	**Issue:**
Precision			X			Good, training records on file to review
Sensitivity			X			Same as #1
Representativeness			X			Same as #1
Completeness			X			Same as #1
Bias				X		Same as #1
Validation			X			Same as #1

STATE	Maine		GROUP	*Hazardous Waste Small Quantity Generators-Auto Body*

#	8	**Indicator Description**	Do any airborne emissions from painting/coating leave the business premises?
		Data Source	Same as indicator #1

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Determine if exceed 20% opacity and/or exceed 10 tons/yr HAPs, 50 tons/yr VOCs or a combined 25 tons/yr of HAPs & VOCs
Sensitivity	X			Same as #1
Representativeness	X			Same as #1
Completeness	X			Same as #1
Bias		X		Same as #1
Validation	X			Same as #1

STATE	New Hampshire		GROUP	Hazardous Waste Small Quantity Generators

#	1	Indicator Description	Facility has made efforts to reduce the toxicity or volume of its hazardous waste.			
		Data Source	RCRA summer intern inspections			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision					X	Lacks common definitions of "efforts" and "reduce"
Sensitivity					X	Same as above
Representativeness			X			From past survey but chosen randomly
Completeness			X			
Bias					X	Subject to data collector's definition
Validation			X			
Other issue:						

#	2	Indicator Description	Facility conducts facility-wide compliance assessments			
		Data Source	RCRA summer intern inspections			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision					X	Lacks common definition of "facility-wide assessment"
Sensitivity					X	Same as above
Representativeness			X			From past survey but chosen randomly
Completeness			X			
Bias					X	Subject to data collector's definition
Validation			X			
Other issue:						

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STATE	New Hampshire	GROUP	Hazardous Waste Small Quantity Generators

# 3	**Indicator Description**	Primary and alternate EHS coordinators received hazardous waste management training.

Data Source	RCRA summer intern inspections

Data Quality Indicator	good	Okay	Prob-lem	**Issue:**
Precision		X		Wide variation in what constitutes training.
Sensitivity		X		Same as above
Representativeness	X			From past survey but chosen randomly
Completeness	X			
Bias	X			
Validation	X			
Other issue:				

# 4	**Indicator Description**	All containers of hazardous waste are labeled with the words, "Hazardous Wastes."

Data Source	RCRA summer intern surveys

Data Quality Indicator	good	Okay	Prob-lem	**Issue:**
Precision	X			
Sensitivity	X			
Representativeness	X			From past survey but chosen randomly
Completeness	X			
Bias	X			
Validation	X			
Other issue:				

STATE	New Hampshire	GROUP	Hazardous Waste Small Quantity Generators

#	5	Indicator Description	There is a distance of at least 2 feet of access (aisles) space on at least one side of each HW container.

Data Source	RCRA summer intern inspections

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			From past survey but chosen randomly
Completeness	X			
Bias	X			
Validation	X			
Other issue:	X			

#	6	Indicator Description	Hazardous wastes are stored in containers that are closed and free of damage or deterioration.

Data Source	RCRA summer intern inspections

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision			X	Requires clear definition of "closed and free of damage or deterioration"
Sensitivity			X	Same as above
Representativeness	X			From past survey but chosen randomly
Completeness	X			
Bias			X	Subject to data collectors definition.
Validation	X			
Other issue:				

STATE	New Hampshire	GROUP	Hazardous Waste Small Quantity Generators

#	7	Indicator Description	Facility has emergency postings at telephone nearest hazardous waste storage area			
		Data Source	RCRA summer intern inspections			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision				X		Could be problem with definition of "nearest"
Sensitivity				X		
Representativeness			X			From past survey but chosen randomly
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

#	8	Indicator Description	All existing waste streams have been characterized			
		Data Source	RCRA summer intern inspections			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			
Sensitivity			X			
Representativeness			X			From past survey but chosen randomly
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

STATE	New Hampshire	GROUP	Hazardous Waste Small Quantity Generators

#	9	Indicator Description	Facility practices good housekeeping

	Data Source	RCRA summer intern inspections

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision			X	Difficult to define what "good housekeeping" consists of
Sensitivity			X	Same as above
Representativeness	X			From past survey but chosen randomly
Completeness	X			
Bias			X	Subject to data collector's definition.
Validation	X			
Other issue:				

STATE	New Hampshire		GROUP	Underground Storage Tanks (USTs)

#	1	Indicator Description	Facility operators have written tightness testing records for USTs		
		Data Source	Underground Storage Tank Program historic data and inspection results		
Data Quality Indicator			good	Okay	Prob-lem	Issue:

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision		X		Possible variation in definition of acceptable written records
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			
Other issue:				

#	2	Indicator Description	Gallons of oil/gasoline reduced through leaking tank replacement		
		Data Source	Underground Storage Tank Program historic data and inspection results		

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness		X		
Bias		X		
Validation			X	Difficult to measure "gallons not leaked" other than by modeling
Other issue:				

STATE	New Hampshire	GROUP	Underground Storage Tanks (USTs)

#	3	Indicator Description	Facility has all registered tanks equipped with overfill protection			
		Data Source	Underground Storage Tank Program historic data and response results			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision			X			
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

#	4	Indicator Description	Facility has SPCC Plan in place			
		Data Source	Historical data and Inspections			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision				X		Could be issue with definition of SPCC Plan although PE stamp required
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

STATE	New Hampshire	GROUP	Underground Storage Tanks (USTs)

#	5	Indicator Description	Facility documents routine UST inspections in writing

	Historical data and inspections

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			
Other issue:				

#	6	Indicator Description	Facility has all tanks registered with Department of Environmental Services

Data Source	"One Stop" database, site inspections and historical records

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation		X		Only addresses facilities already registered in state system
Other issue:				

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STATE	New Hampshire		GROUP	Dental Facilities

#	1	**Indicator Description**	Facility uses approved Amalgam Separator to recycle mercury			
		Data Source	Inspections, survey data and historical data			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision			X			
Sensitivity			X			
Representativeness				X		
Completeness			X			
Bias			X			
Validation			X			

#	2	**Indicator Description**	Facility has eliminated mercury amalgam fillings (switch to non-mercury restorative)			
		Data Source	Inspections, survey data and historical data			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision			X			
Sensitivity			X			
Representativeness				X		
Completeness			X			
Bias			X			
Validation			X			

#	3	**Indicator Description**	Facility has eliminated all X-ray waste (switched to digital radiography)			
		Data Source	Inspections, survey data and historical data			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision			X			
Sensitivity			X			
Representativeness				X		
Completeness			X			
Bias			X			
Validation				X		Facility could "farm out" x-ray service – not real P2

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STATE	New Hampshire	GROUP	Dental Facilities

#	4	Indicator Description	Facility recovers silver from spent X-ray solution			
		Data Source	Inspections, survey data and historical data			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision			X			
Sensitivity			X			
Representativeness				X		
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

#	5	Indicator Description	Facility recycles waste amalgam or manages waste amalgam as hazardous waste			
		Data Source	Inspections, survey data and historical data			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision			X			
Sensitivity			X			
Representativeness				X		
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

STATE	New Hampshire	GROUP	Auto Repair/Auto Body Facilities

#	1	**Indicator Description**	Facility has obtained EPA ID number from Department of Environmental Services

	Data Source	"One Stop" Database, historical data, inspections

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			

#	2	**Indicator Description**	Facility only uses EPA-approved Low VOC paint

	Data Source	Historical data, inspections

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			

#	3	**Indicator Description**	Facility recycles (BTU recovery or Re-refining) used oil

	Data Source	Historical data, inspections

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			

STATE	New Hampshire				GROUP	Auto Repair/Auto Body Facilities
Other issue:						

#	4	Indicator Description	Facility has certified CFC technician & EPA-certified CFC evacuator			
		Data Source	Historical data, inspections			

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			

#	5	Indicator Description	Facility recycles antifreeze			
		Data Source	inspections			

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			

#	6	Indicator Description	Hazardous waste handled/stored in a compliant manner (labels, containment, etc.)			
		Data Source	Inspections			

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation		X		Not confirmed by RCRA Inspectors

STATE	New Hampshire		GROUP	Auto Repair/Auto Body Facilities

#	7	**Indicator Description**	Spray Booths utilized at auto body shops			

Data Source	Inspections					

Data Quality Indicator	good	Okay	Prob-lem	Issue:		
Precision		X		Definition of a spray booth		
Sensitivity	X					
Representativeness	X					
Completeness	X					
Bias	X					
Validation	X					

#	8	**Indicator Description**	Solvents recovered/reused			

Data Source	Inspection/records					

Data Quality Indicator	good	Okay	Prob-lem	Issue:		
Precision		X		Amounts usually not determined with precision		
Sensitivity	X					
Representativeness	X					
Completeness	X					
Bias	X					
Validation	X					

#	9	**Indicator Description**	HVLP Spray guns utilized			

Data Source	Inspections					

Data Quality Indicator	good	Okay	Prob-lem	Issue:		
Precision	X					
Sensitivity	X					
Representativeness	X					
Completeness	X					
Bias	X					
Validation	X					

STATE	New Hampshire				GROUP	Auto Repair/Auto Body Facilities
Other issue:						

#	10	Indicator Description	Parts washing done with low VOC solvents in approved units
		Data Source	Inspections

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness		X		New requirements being implemented
Completeness	X			
Bias	X			
Validation	X			
Other issue:				

#	11	Indicator Description	Spill Response Kits available
		Data Source	Inspections

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			
Other issue:				

STATE	New Hampshire	GROUP	Auto Repair/Auto Body Facilities

#	12	Indicator Description	Floor drains sealed or registered/permitted			
		Data Source	Inspections/Historical data			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision			X			
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

NH DES - STATES' COMMON MEASURES PROJECT
Group and Indicator Packet
INDICATOR EVALUATION CHARTS

STATE	New Hampshire		GROUP	Hazardous Waste Small Quantity Generators

#	1	Indicator Description	Facility has made efforts to reduce the toxicity or volume of its hazardous waste.

Data Source	RCRA summer intern inspections

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision			X	Lacks common definitions of "efforts" and "reduce"
Sensitivity			X	Same as above
Representativeness	X			From past survey but chosen randomly
Completeness	X			
Bias			X	Subject to data collector's definition
Validation	X			
Other issue:				

#	2	Indicator Description	Facility conducts facility-wide compliance assessments

Data Source	RCRA summer intern inspections

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision			X	Lacks common definition of "facility-wide assessment"
Sensitivity			X	Same as above
Representativeness	X			From past survey but chosen randomly
Completeness	X			
Bias			X	Subject to data collector's definition
Validation	X			
Other issue:				

STATE	New Hampshire		GROUP	Hazardous Waste Small Quantity Generators

#	3	Indicator Description	Primary and alternate EHS coordinators received hazardous waste management training.				
		Data Source	RCRA summer intern inspections				
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**	
Precision				X		Wide variation in what constitutes training.	
Sensitivity				X		Same as above	
Representativeness			X			From past survey but chosen randomly	
Completeness			X				
Bias			X				
Validation			X				
Other issue:							

#	4	Indicator Description	All containers of hazardous waste are labeled with the words, "Hazardous Wastes."				
		Data Source	RCRA summer intern surveys				
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**	
Precision			X				
Sensitivity			X				
Representativeness			X			From past survey but chosen randomly	
Completeness			X				
Bias			X				
Validation			X				
Other issue:							

STATE	New Hampshire		GROUP	Hazardous Waste Small Quantity Generators

#	5	Indicator Description	There is a distance of at least 2 feet of access (aisles) space on at least one side of each HW container.			
		Data Source	RCRA summer intern inspections			
Data Quality Indicator			**good**	**Okay**	**Prob-lem**	**Issue:**
Precision			X			
Sensitivity			X			
Representativeness			X			From past survey but chosen randomly
Completeness			X			
Bias			X			
Validation			X			
Other issue:			X			

#	6	Indicator Description	Hazardous wastes are stored in containers that are closed and free of damage or deterioration.			
		Data Source	RCRA summer intern inspections			
Data Quality Indicator			**good**	**Okay**	**Prob-lem**	**Issue:**
Precision					X	Requires clear definition of "closed and free of damage or deterioration"
Sensitivity					X	Same as above
Representativeness			X			From past survey but chosen randomly
Completeness			X			
Bias					X	Subject to data collectors definition.
Validation			X			
Other issue:						

STATE	New Hampshire	GROUP	Hazardous Waste Small Quantity Generators

#	7	Indicator Description	Facility has emergency postings at telephone nearest hazardous waste storage area			
		Data Source	RCRA summer intern inspections			
Data Quality Indicator		good	Okay	Prob-lem	Issue:	
Precision			X		Could be problem with definition of "nearest"	
Sensitivity			X			
Representativeness		X			From past survey but chosen randomly	
Completeness		X				
Bias		X				
Validation		X				
Other issue:						

#	8	Indicator Description	All existing waste streams have been characterized			
		Data Source	RCRA summer intern inspections			
Data Quality Indicator		good	Okay	Prob-lem	Issue:	
Precision		X				
Sensitivity		X				
Representativeness		X			From past survey but chosen randomly	
Completeness		X				
Bias		X				
Validation		X				
Other issue:						

STATE	New Hampshire		GROUP	Hazardous Waste Small Quantity Generators

#	9	**Indicator Description**	Facility practices good housekeeping			
		Data Source	RCRA summer intern inspections			
Data Quality Indicator		**good**	**Okay**	**Prob-lem**	**Issue:**	
Precision				X	Difficult to define what "good housekeeping" consists of	
Sensitivity				X	Same as above	
Representativeness		X			From past survey but chosen randomly	
Completeness		X				
Bias				X	Subject to data collector's definition.	
Validation		X				
Other issue:						

STATE	New Hampshire		GROUP	Underground Storage Tanks (USTs)

#	1	Indicator Description	Facility operators have written tightness testing records for USTs			
		Data Source	Underground Storage Tank Program historic data and inspection results			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision				X		Possible variation in definition of acceptable written records
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

#	2	Indicator Description	Gallons of oil/gasoline reduced through leaking tank replacement			
		Data Source	Underground Storage Tank Program historic data and inspection results			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			
Sensitivity			X			
Representativeness			X			
Completeness				X		
Bias				X		
Validation					X	Difficult to measure "gallons not leaked" other than by modeling
Other issue:						

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STATE	New Hampshire		GROUP	Underground Storage Tanks (USTs)

#	3	**Indicator Description**	Facility has all registered tanks equipped with overfill protection			
		Data Source	Underground Storage Tank Program historic data and response results			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision			X			
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

#	4	**Indicator Description**	Facility has SPCC Plan in place			
		Data Source	Historical data and Inspections			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision				X		Could be issue with definition of SPCC Plan although PE stamp required
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

STATE	New Hampshire		GROUP	Underground Storage Tanks (USTs)

#	5	Indicator Description	Facility documents routine UST inspections in writing			
			Historical data and inspections			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

#	6	Indicator Description	Facility has all tanks registered with Department of Environmental Services			
		Data Source	"One Stop" database, site inspections and historical records			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation				X		Only addresses facilities already registered in state system
Other issue:						

STATE	New Hampshire	GROUP	Dental Facilities

#	1	Indicator Description	Facility uses approved Amalgam Separator to recycle mercury
		Data Source	Inspections, survey data and historical data

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness		X		
Completeness	X			
Bias	X			
Validation	X			
Other issue:				

#	2	Indicator Description	Facility has eliminated mercury amalgam fillings (switch to non-mercury restorative)
		Data Source	Inspections, survey data and historical data

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness		X		
Completeness	X			
Bias	X			
Validation	X			
Other issue:				

STATE	New Hampshire	GROUP	Dental Facilities

#	3	Indicator Description	Facility has eliminated all X-ray waste (switched to digital radiography)			
		Data Source	Inspections, survey data and historical data			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			
Sensitivity			X			
Representativeness				X		
Completeness			X			
Bias			X			
Validation				X		Facility could "farm out" x-ray service – not real P2
Other issue:						

#	4	Indicator Description	Facility recovers silver from spent X-ray solution			
		Data Source	Inspections, survey data and historical data			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			
Sensitivity			X			
Representativeness				X		
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

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STATE	New Hampshire	GROUP	Dental Facilities

#	5	Indicator Description	Facility recycles waste amalgam or manages waste amalgam as hazardous waste

	Data Source	Inspections, survey data and historical data

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness		X		
Completeness	X			
Bias	X			
Validation	X			
Other issue:				

STATE	New Hampshire	GROUP	Auto Repair/Auto Body Facilities

#	1	**Indicator Description**	Facility has obtained EPA ID number from Department of Environmental Services

	Data Source	"One Stop" Database, historical data, inspections

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			

#	2	**Indicator Description**	Facility only uses EPA-approved Low VOC paint

	Data Source	Historical data, inspections

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			

#	3	**Indicator Description**	Facility recycles (BTU recovery or Re-refining) used oil

	Data Source	Historical data, inspections

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			

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STATE		New Hampshire		GROUP	Auto Repair/Auto Body Facilities

#	4	**Indicator Description**	Facility has certified CFC technician & EPA-certified CFC evacuator		
		Data Source	Historical data, inspections		

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			
Other issue:				

#	5	**Indicator Description**	Facility recycles antifreeze
		Data Source	inspections

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			
Other issue:				

#	6	**Indicator Description**	Hazardous waste handled/stored in a compliant manner (labels, containment, etc.)
		Data Source	Inspections

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation		X		Not confirmed by RCRA Inspectors

STATES' COMMON MEASURES PROJECT
Groups and Indicators Packet
INDICATOR EVALUATION CHARTS cont.   page _3 of 5

STATE	New Hampshire				GROUP	Auto Repair/Auto Body Facilities
Other issue:						

#	7	**Indicator Description**	Spray Booths utilized at auto body shops		
		Data Source	Inspections		

Data Quality Indicator	good	Okay	Prob-lem	Issue:	
Precision		X		Definition of a spray booth	
Sensitivity	X				
Representativeness	X				
Completeness	X				
Bias	X				
Validation	X				
Other issue:					

#	8	**Indicator Description**	Solvents recovered/reused		
		Data Source	Inspection/records		

Data Quality Indicator	good	Okay	Prob-lem	Issue:	
Precision		X		Amounts usually not determined with precision	
Sensitivity	X				
Representativeness	X				
Completeness	X				
Bias	X				
Validation	X				
Other issue:					

STATE	New Hampshire	GROUP	Auto Repair/Auto Body Facilities

#	9	**Indicator Description**	HVLP Spray guns utilized			
		Data Source	Inspections			
Data Quality Indicator			**good**	**Okay**	**Prob-lem**	**Issue:**
Precision			X			
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation			X			
Other issue:						
Other issue:						
#	10	**Indicator Description**	Parts washing done with low VOC solvents in approved units			
		Data Source	Inspections			
Data Quality Indicator			**good**	**Okay**	**Prob-lem**	**Issue:**
Precision			X			
Sensitivity			X			
Representativeness				X		New requirements being implemented
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

STATE	New Hampshire	GROUP	Auto Repair/Auto Body Facilities

#	11	Indicator Description	Spill Response Kits available			
		Data Source	Inspections			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

#	12	Indicator Description	Floor drains sealed or registered/permitted			
		Data Source	Inspections/Historical data			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

NJ DEP - STATES' COMMON MEASURES PROJECT
Group and Indicator Packet

GROUP EVALUATION CHART:

STATE	NJ	GROUP	Dental Amalgam	__ Would do	X Most Interested
Easier to Collect Good Data		*Easier*	*Somewhat difficult*	*More difficult*	***More Difficult to Collect Good Data***

Consideration	**Complexity of Metrics**			
Single Media		X		Multi Media
Regulatory or Good Practices Only		X		Both Regulatory and Good Practices
Few requirements	X			Many Requirements
Clear Cut Requirements	X			Subjective Requirements
Complexity of Sector				
Similar Facilities	X			Diverse Facilities
Small Universe		X		Large Universe
Prior Experience With Sector				
Existing Sector	X			New Sector
Existing Data System			X	No Data System
Existing Common Definitions		X		No Common Definitions
Known Universe	X			Unknown Universe
Existing Checklists		X		No Checklists
Historical Data		X		No Historical Data
Similar requirements across states	X			Dissimilar requirements across states
Other Considerations				

More Desirable/Easier Sector	*Most desirable*	*Somewhat desirable*	*Less desirable*	***Less Desirable/Harder Sector***
Even distribution of facilities across states	X			Uneven distribution of facilities across states
Important environmental concern	X			Lesser environmental concern
Regulated by the states and EPA		X		State only sector
Ability to link to an environmental outcome	X			Inability to link to an environmental outcome
Facilities are sophisticated about environmental regulation			X	Facilities are unsophisticated about environmental regulation
No language barriers	X			Language barriers
Other (list:)				

STATE	NJ		GROUP	*DENTAL AMALGAM*

#	1	**Indicator Description**	Installation of amalgam separator

Data Source	New inspection results

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Yes or No Data
Sensitivity	X			Yes or No Data
Representativeness	X			No historic data, only new inspections
Completeness	X			Easy info to collect at inspection
Bias	X			Amalgam Separator identification training needed for inspectors
Validation				
Other issue:				

#	2	**Indicator Description**	The facility has an Amalgam Separator operator manual

Data Source	New inspection results

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision				Yes or No Data
Sensitivity				Yes or No Data
Representativeness				No historic data, only new inspections
Completeness				Easy info to collect at inspection
Bias				Amalgam Separator identification training needed for inspectors
Validation				
Other issue:				

STATE	NJ		GROUP	Dental Amalgam

#	3	Indicator Description	The facility is operating in accordance with the amalgam separator operator manual			
		Data Source	New inspection results			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision						This measurement is a partially subjective
Sensitivity						There can be varying grades of compliance
Representativeness						No historic data, only new inspections
Completeness						Easy info to collect at inspection
Bias						Training in amalgam separator performance parameters required
Validation						

#	4	Indicator Description	**Pounds of amalgam separator waste collected**			
		Data Source	Data Submittal to the Environmental Agency			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision						Must weigh collected waste
Sensitivity						Easy to measure
Representativeness						Relies on generator to measure
Completeness						Easy info to be submitted to the environmental agency
Bias						Relies on generator to measure
Validation						Field review of records can be conducted to ensure values are within expected norms.

#	5	Indicator Description	**Pounds of mercury removed from wastewater discharges**			
		Data Source	Data Submittal to the Environmental Agency			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision						Based on generator info and estimate of mercury contained in amalgam waste
Sensitivity						Mercury content may be small compared to total Amalgam waste collected
Representativeness						Relies on generator to measure
Completeness						Easy info to be submitted to the environmental agency
Bias						Relies on generator to measure
Validation						

STATE	NJ		GROUP	*Dental Amalgam*

#	6	Indicator Description	Proper container for amalgam waste			
		Data Source	Data Submittal to the Environmental Agency			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision						Not leaking with lid
Sensitivity						Yes or No answer
Representativeness						No historic data, only new inspections
Completeness						Easy info to collect at inspection
Bias						Train inspectors on good vs bad containers
Validation						

#	7	Indicator Description	Proper label for amalgam waste containers			
		Data Source	Data Submittal to the Environmental Agency			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision						Container content information and accumulation start date
Sensitivity						Yes or No answer
Representativeness						No historic data, only new inspections
Completeness						Easy info to collect at inspection
Bias						Train inspectors on label requirements
Validation						

#	8	Indicator Description	Record of amalgam waste disposal			
		Data Source	Data Submittal to the Environmental Agency			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision						Amalgam waste records kept by generator.
Sensitivity						Yes or No answer
Representativeness						No historic data, only new inspections
Completeness						Easy info to collect at inspection
Bias						Train inspectors amalgam waste record keeping requirements.
Validation						
Other issue:						

STATES' COMMON MEASURES PROJECT
GROUP PREFERENCE CHECKLIST

STATE: New Jersey	Check if your state would do this group	Check if your state would not do this group	Also Check if this is a group your state is very interested in doing
GROUP			
Small quantity hazardous waste generators			
Large quantity hazardous waste generators			
TSDFs			
Air Operating Permits		X	
Marinas			
Soils Recyclers			
Underground Storage Tanks			
Colleges and Universities			
Hospitals			
Photo Processors			
Commercial Offsite HW Recyclers			
Printers			
Stage 2 Programs			
NPDES Majors		X	
NPDES Minors		X	
Active Landfills		X	
Exterior Lead Paint Contractors			
K-12 Schools			
Auto Salvage / Junk Yards		X	
Dry Cleaners		X	
Auto body	X		
Auto repair	X		
Dental clinics			X
Used oil handlers and recyclers			
Electronics recyclers			
Furniture strippers			
Radiator repair			
Metal fabricators			
Spray booth operators			
Platers		X	
Boat builders		X	
Small automotive touch up operations	X		
Portable minor air sources eg. wood chippers, stump grinders)	X		
Municipal operations: POTWS, DPWs, Water Uitlities			

NYS DEC - STATES' COMMON MEASURES PROJECT
Groups and Indicators Packet

GROUP EVALUATION CHART:

STATE	New York	GROUP	HW Small Quantity Generators		_x_ Would do	__ Most Interested
Easier to Collect Good Data			*Easier*	*Somewhat difficult*	*More difficult*	*More Difficult to Collect Good Data*
Consideration			**Complexity of Metrics**			
Single Media			x			Multi Media
Regulatory or Good Practices Only				x		Both Regulatory and Good Practices
Few requirements				x		Many Requirements
Clear Cut Requirements				x		Subjective Requirements
Complexity of Sector						
Similar Facilities					x	Diverse Facilities
Small Universe					x	Large Universe
Prior Experience With Sector						
Existing Sector				x		New Sector
Existing Data System					x	No Data System
Existing Common Definitions				x		No Common Definitions
Known Universe				x		Unknown Universe
Existing Checklists			x			No Checklists
Historical Data				x		No Historical Data
Similar requirements across states				x		Dissimilar requirements across states
Other Considerations						
More Desirable/Easier Sector			*Most desirable*	*Somewhat desirable*	*Less desirable*	*Less Desirable/Harder Sector*
Even distribution of facilities across states				x		Uneven distribution of facilities across states
Important environmental concern				x		Lesser environmental concern
Regulated by the states and EPA			x			State only sector
Ability to link to an environmental outcome				x		Inability to link to an environmental outcome
Facilities are sophisticated about environmental regulation				x		Facilities are unsophisticated about environmental regulation
No language barriers				x		Language barriers
Other (list:)						

STATES' COMMON MEASURES PROJECT
Groups and Indicators Packet
INDICATOR CHARTS   page 1of 5

STATE	New York		GROUP	*Hazardous Waste Small Quantity Generators*

#	1	**Indicator Description**	The facility has made a HW determination.			
	Data Source		New inspection results or historic data			
Data Quality Indicator			**good**	**Okay**	**Prob-lem**	**Issue:**
Precision			X			No issue if noncompliance threshold is clearly defined.
Sensitivity			X			Sensitivity is not an issue because of yes / no answers
Representativeness			X			Good, if new data. Potential problem if historic data is used because SQGs that were inspected may not represent random population (In general, SQGs historically been inspected due to complaints or some suspected problems at facility.
Completeness			X			Easy to gather complete information for every inspection
Bias			X			Should be okay, provided proper training is given, if new inspections.
Validation			X			Should be okay, provided proper training is given, if new inspections.
Other issue:						

#	2	**Indicator Description**	The facility has made appropriate HW generator classification as an SQG.			
	Data Source		Inspection results on file and/or new data			
Data Quality Indicator			**good**	**Okay**	**Prob-lem**	**Issue:**
Precision			X			Same as #1
Sensitivity			X			Same as #1
Representativeness			X			Same as #1
Completeness			X			Same as #1
Bias			X			Same as #1
Validation			X			Same as #1
Other issue:						

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STATE	New York		GROUP	*Hazardous Waste Small Quantity Generators*

#	3	**Indicator Description**	Facility did not exceed the timeliness thresholds for hazardous waste storage.

Data Source	Same as Indicator #1

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as indicator #1
Sensitivity	X			Same as indicator #1
Representativeness	X			Same as indicator #1
Completeness	X			Same as indicator #1
Bias	X			Same as indicator #1
Validation	X			Same as indicator #1
Other issue:				

#	4	**Indicator Description**	Facility has provided proper waste handling and emergency procedures training to employees.

Data Source	Same as Indicator #1

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as indicator #1
Sensitivity	X			Same as indicator #1
Representativeness	X			Same as indicator #1
Completeness	X			Same as indicator #1
Bias	X			Same as indicator #1
Validation				Same as indicator #1
Other issue:				

#	5	**Indicator Description**	All hazardous waste containers are properly labeled (for both accumulation and storage areas).

Data Source	Same as indicator #1

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Provided noncompliance threshold is clearly defined (e.g. ANY container with no label, label that is incomplete, illegible or falling off)
Sensitivity	X			Same as indicator #1
Representativeness	X			Same as indicator #1

STATE	New York		GROUP	*Hazardous Waste Small Quantity Generators*

Completeness	X			Same as indicator #1
Bias	X			Same as indicator #1
Validation	X			Same as indicator #1
Other issue:				

#	6	**Indicator Description**	All hazardous waste containers are in good condition (for both accumulation and storage areas).
Data Source			Same as indicator #1

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision		X		Same as indicator #5, also "good condition" can be somewhat subjective
Sensitivity	X			Same as indicator #1
Representativeness	X			Same as indicator #1
Completeness	X			Same as indicator #1
Bias	X			Same as indicator #1
Validation				Same as indicator #1
Other issue:				

#	7	**Indicator Description**	All hazardous waste containers are closed (both accumulation and storage areas).
Data Source			Same as Indicator #1

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			No issue. Good precision, yes/no answer.
Sensitivity	X			No issue, yes/ no answer
Representativeness	X			Same as Indicator #1.
Completeness	X			Easy to gather complete information for every inspection
Bias	X			No bias, yes/no answer.
Validation				Same as indicator #1
Other issue:				

STATE	New York		GROUP	*Hazardous Waste Small Quantity Generators*

#	8	**Indicator Description**	For Facilities located over sole source aquifers, containers storage is within secondary containment areas if more than 185 gallons are accumulated for storage. – **For New York Only**

Data Source		Same as Indicator #1

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as Indicator #1.
Sensitivity	X			No issue, yes/ no answer.
Representativeness	X			Same as Indicator #1.
Completeness	X			Easy to gather complete information for every inspection.
Bias	X			No bias, yes/no answer.
Validation				Same as indicator #1
Other issue:				

#	9	**Indicator Description**	The facility has posted emergency coordinator names and telephone numbers, fire department telephone numbers, locations of fire alarms and extinguishers and evacuation routes.

Data Source		Same as Indicator #1

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as indicator #1
Sensitivity	X			Same as indicator #1
Representativeness	X			Same as indicator #1
Completeness	X			Same as indicator #1
Bias	X			Same as indicator #1
Validation				Same as indicator #1
Other issue:				

#	10	**Indicator Description**	The facility manifested all hazardous wastes to an authorized TSD using a licensed transporter.

Data Source		Same as indicator #1

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as indicator #1
Sensitivity	X			Same as indicator #1
Representativeness	X			Same as indicator #1

STATE	New York		GROUP	*Hazardous Waste Small Quantity Generators*

Completeness	X			Same as indicator #1
Bias	X			Same as indicator #1
Validation				Same as indicator #1
Other issue:				

#	11	Indicator Description	The facility has made arrangements with local authorities.

Data Source	Same as Indicator #1

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as indicator #1
Sensitivity	X			Same as indicator #1
Representativeness	X			Same as indicator #1
Completeness	X			Same as indicator #1
Bias	X			Same as indicator #1
Validation				Same as indicator #1
Other issue:				

#	12	Indicator Description	The facility has posted emergency coordinator names and telephone numbers, fire department telephone numbers, locations of fire alarms and extinguishers and evacuation routes.

Data Source	Same as Indicator #1

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as indicator #1
Sensitivity	X			Same as indicator #1
Representativeness	X			Same as indicator #1
Completeness	X			Same as indicator #1
Bias	X			Same as indicator #1
Validation				Same as indicator #1
Other issue:				

STATES' COMMON MEASURES PROJECT
Groups and Indicators Packet:

GROUP EVALUATION CHART:

STATE	New York	GROUP	Auto Body Shops (CESQGs)		__ Would do	_x_ Most Interested
Easier to Collect Good Data			*Easier*	*Somewhat difficult*	*More difficult*	**More Difficult to Collect Good Data**
Consideration			**Complexity of Metrics**			
Single Media				x		Multi Media
Regulatory or Good Practices Only			x			Both Regulatory and Good Practices
Few requirements				x		Many Requirements
Clear Cut Requirements				x		Subjective Requirements
Complexity of Sector						
Similar Facilities			x			Diverse Facilities
Small Universe					x	Large Universe
Prior Experience With Sector						
Existing Sector				x		New Sector
Existing Data System					x	No Data System
Existing Common Definitions				x		No Common Definitions
Known Universe				x		Unknown Universe
Existing Checklists			x			No Checklists
Historical Data					x	No Historical Data
Similar requirements across states				x		Dissimilar requirements across states
Other Considerations						
More Desirable/Easier Sector			*Most desirable*	*Somewhat desirable*	*Less desirable*	**Less Desirable/Harder Sector**
Even distribution of facilities across states				x		Uneven distribution of facilities across states
Important environmental concern				x		Lesser environmental concern
Regulated by the states and EPA			x			State only sector
Ability to link to an environmental outcome				x		Inability to link to an environmental outcome
Facilities are sophisticated about environmental regulation				x		Facilities are unsophisticated about environmental regulation
No language barriers				x		Language barriers
Other (list:)						

STATE	New York State		GROUP	*Auto Body Shops (CESQGS)*

#	1	Indicator Description	The facility has made a HW determination.			
	Data Source		New inspection results or historic data			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			No issue if noncompliance threshold is clearly defined.
Sensitivity			X			Sensitivity is not an issue because of yes / no answers
Representativeness			X			Good, if new data. Potential problem if historic data is used because previously inspected facilites may not represent random population (In general, facilities have historically been inspected due to complaints or some suspected problems at facility.)
Completeness			X			Easy to gather complete information for every inspection
Bias			X			Should be okay, provided proper training is given, if new inspections.
Validation			X			Should be okay, provided proper training is given, if new inspections.

#	2	Indicator Description	The facility has made appropriate HW generator classification as a CESQG.			
	Data Source		Inspection results on file and/or new data			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			Same as #1
Sensitivity			X			Same as #1
Representativeness			X			Same as #1
Completeness			X			Same as #1
Bias			X			Same as #1
Validation			X			Same as #1

STATE	New York		GROUP	*Auto Body Shops*

#	2	**Indicator Description**	Facility did not exceed the quantity thresholds for hazardous waste accumulation.
	Data Source		Inspection results on file and/or new data

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as #1
Sensitivity	X			Same as #1
Representativeness	X			Same as #1
Completeness	X			Same as #1
Bias	X			Same as #1
Validation	X			Same as #1

#	3	**Indicator Description**	All hazardous waste containers are labeled, in good condition, and closed. (*not a regulatory requirement if CESQG)*
	Data Source		Same as indicator #1

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as indicator #1, also "good condition" can be somewhat subjective.
Sensitivity	X			Same as indicator #1
Representativeness	X			Same as indicator #1
Completeness	X			Same as indicator #1
Bias	X			Same as indicator #1
Validation	X			Same as indicator #1

#	4	**Indicator Description**	The facility has ensured delivery of HW to an authorized TSD.
	Data Source		Same as Indicator #1

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			No issue. Good precision, yes/no answer.
Sensitivity	X			No issue, yes/ no answer.
Representativeness	X			Same as Indicator#1.
Completeness	X			Easy to gather complete information for every inspection
Bias	X			No bias, yes/no answer.
Validation				Same as indicator #1

RI DEM - STATES' COMMON MEASURES PROJECT
Group and Indicator Packet

GROUP EVALUATION CHART:

STATE	Rhode Island	GROUP	Small Quantity Generators	__ Would do	_X Most Interested
Easier to Collect Good Data		*Easier*	*Somewhat difficult*	*More difficult*	**More Difficult to Collect Good Data**
Consideration			**Complexity of Metrics**		
Single Media		X			Multi Media
Regulatory or Good Practices Only		X			Both Regulatory and Good Practices
Few requirements			X		Many Requirements
Clear Cut Requirements			X		Subjective Requirements
			Complexity of Sector		
Similar Facilities				X	Diverse Facilities
Small Universe				X	Large Universe
			Prior Experience With Sector		
Existing Sector				X	New Sector
Existing Data System			X		No Data System
Existing Common Definitions			X		No Common Definitions
Known Universe		X			Unknown Universe
Existing Checklists				X	No Checklists
Historical Data		X			No Historical Data
Similar requirements across states			X		Dissimilar requirements across states
			Other Considerations		
More Desirable/Easier Sector		*Most desirable*	*Somewhat desirable*	*Less desirable*	**Less Desirable/Harder Sector**
Even distribution of facilities across states			X		Uneven distribution of facilities across states
Important environmental concern			X		Lesser environmental concern
Regulated by the states and EPA		X			State only sector
Ability to link to an environmental outcome			X		Inability to link to an environmental outcome
Facilities are sophisticated about environmental regulation			X		Facilities are unsophisticated about environmental regulation
No language barriers			X		Language barriers
Other (list:)					

STATES' COMMON MEASURES PROJECT
Group and Indicator Packet

STATE	Rhode Island		GROUP	Hazardous Waste Small Quantity Generators

#		Indicator Description	**New Sector, indicators not established**		
		Data Source			

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision				
Sensitivity				
Representativeness				
Completeness				
Bias				
Validation				
Other issue:				

STATES' COMMON MEASURES PROJECT
Group and Indicator Packet

GROUP EVALUATION CHART:

STATE	Rhode Island	GROUP	Large Quantity Generators	_X_ Would do	__ Most Interested

Easier to Collect Good Data	*Easier*	*Somewhat difficult*	*More difficult*	*More Difficult to Collect Good Data*
Consideration	**Complexity of Metrics**			
Single Media	X			Multi Media
Regulatory or Good Practices Only	X			Both Regulatory and Good Practices
Few requirements		X		Many Requirements
Clear Cut Requirements		X		Subjective Requirements
Complexity of Sector				
Similar Facilities			X	Diverse Facilities
Small Universe		X		Large Universe
Prior Experience With Sector				
Existing Sector			X	New Sector
Existing Data System		X		No Data System
Existing Common Definitions		X		No Common Definitions
Known Universe	X			Unknown Universe
Existing Checklists			X	No Checklists
Historical Data	X			No Historical Data
Similar requirements across states		X		Dissimilar requirements across states
Other Considerations				

More Desirable/Easier Sector	*Most desirable*	*Somewhat desirable*	*Less desirable*	*Less Desirable/Harder Sector*
Even distribution of facilities across states		X		Uneven distribution of facilities across states
Important environmental concern		X		Lesser environmental concern
Regulated by the states and EPA	X			State only sector
Ability to link to an environmental outcome		X		Inability to link to an environmental outcome
Facilities are sophisticated about environmental regulation		X		Facilities are unsophisticated about environmental regulation
No language barriers		X		Language barriers
Other (list:)				

STATES' COMMON MEASURES PROJECT
Group and Indicator Packet
INDICATOR EVALUATION CHARTS   page 1 of _1_

STATE	Rhode Island		GROUP	Hazardous Waste Large Quantity Generators

#		Indicator Description	**New Sector, indicators not established**			
		Data Source				
Data Quality Indicator		good	Okay	Prob-lem	**Issue:**	
Precision						
Sensitivity						
Representativeness						
Completeness						
Bias						
Validation						
Other issue:						

STATES' COMMON MEASURES PROJECT
Group and Indicator Packet:

GROUP EVALUATION CHART:

STATE	Rhode Island	GROUP	Marinas		_X_ Would do	__ Most Interested

Easier to Collect Good Data	*Easier*	*Somewhat difficult*	*More difficult*	*More Difficult to Collect Good Data*		
Consideration	**Complexity of Metrics**					
Single Media		X		Multi Media		
Regulatory or Good Practices Only				Both Regulatory and Good Practices		
Few requirements		X		Many Requirements		
Clear Cut Requirements		X		Subjective Requirements		
Complexity of Sector						
Similar Facilities	X			Diverse Facilities		
Small Universe		X		Large Universe		
Prior Experience With Sector						
Existing Sector			X	New Sector		
Existing Data System			X	No Data System		
Existing Common Definitions				No Common Definitions		
Known Universe	X			Unknown Universe		
Existing Checklists		X		No Checklists		
Historical Data		X		No Historical Data		
Similar requirements across states		X		Dissimilar requirements across states		
Other Considerations						

More Desirable/Easier Sector	*Most desirable*	*Somewhat desirable*	*Less desirable*	*Less Desirable/Harder Sector*		
Even distribution of facilities across states		X		Uneven distribution of facilities across states		
Important environmental concern		X		Lesser environmental concern		
Regulated by the states and EPA	X			State only sector		
Ability to link to an environmental outcome		X		Inability to link to an environmental outcome		
Facilities are sophisticated about environmental regulation		X		Facilities are unsophisticated about environmental regulation		
No language barriers		X		Language barriers		
Other (list:)						

STATE	Rhode Island		GROUP	Marinas

#		Indicator Description	**New Sector, indicators not established**			
		Data Source				
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision						
Sensitivity						
Representativeness						
Completeness						
Bias						
Validation						
Other issue:						

STATES' COMMON MEASURES PROJECT
Group and Indicator Packet:

GROUP EVALUATION CHART:

STATE	Rhode Island	GROUP	Underground Storage Tanks	__ Would do	_X_ Most Interested
Easier to Collect Good Data		*Easier*	*Somewhat difficult*	*More difficult*	**More Difficult to Collect Good Data**
Consideration					
Complexity of Metrics					
Single Media		X			Multi Media
Regulatory or Good Practices Only				X	Both Regulatory and Good Practices
Few requirements				X	Many Requirements
Clear Cut Requirements			X		Subjective Requirements
Complexity of Sector					
Similar Facilities		X			Diverse Facilities
Small Universe				X	Large Universe
Prior Experience With Sector					
Existing Sector		X			New Sector
Existing Data System		X			No Data System
Existing Common Definitions		X			No Common Definitions
Known Universe		X			Unknown Universe
Existing Checklists		X			No Checklists
Historical Data		X			No Historical Data
Similar requirements across states			X		Dissimilar requirements across states
Other Considerations					
More Desirable/Easier Sector		*Most desirable*	*Somewhat desirable*	*Less desirable*	**Less Desirable/Harder Sector**
Even distribution of facilities across states		X			Uneven distribution of facilities across states
Important environmental concern		X			Lesser environmental concern
Regulated by the states and EPA		X			State only sector
Ability to link to an environmental outcome		X			Inability to link to an environmental outcome
Facilities are sophisticated about environmental regulation			X		Facilities are unsophisticated about environmental regulation
No language barriers			X		Language barriers
Other (list:)					

STATES' COMMON MEASURES PROJECT
Group and Indicator Packet
INDICATOR EVALUATION CHARTS   page 1 of _3_

STATE	Rhode Island		GROUP	Underground Storage Tanks

#	1	Indicator Description	Facility has a leak detection system in place for each tank			
		Data Source	Inspection or audit results			
Data Quality Indicator		good	Okay	Prob-lem	**Issue:**	
Precision		X			Compliance with requirement is clearly defined	
Sensitivity		X			Not an issue, because of Yes/No answer	
Representativeness		X			Good for new inspections or audits	
Completeness		X			Easy to gather information at inspection or audit, with review and verification of documentation as warranted	
Bias		X			Should be no bias with trained inspector	
Validation		X			Easy to validate at inspection or audit, with review and verification of documentation as warranted	
Other issue:						

#	2	Indicator Description	Facility has records of the last thirty-six (36) months of inventory control			
		Data Source	Inspection or audit results			
Data Quality Indicator		good	Okay	Prob-lem	**Issue:**	
Precision		X			Same as # 1	
Sensitivity		X			Same as # 1	
Representativeness		X			Same as # 1	
Completeness		X			Same as # 1	
Bias		X			Same as # 1	
Validation		X			Same as # 1	
Other issue:						

STATE	Rhode Island		GROUP	Underground Storage Tanks

#	3	Indicator Description	Facility has records of passing Leak Line Detection tests conducted annually for the past three (3) years		
		Data Source	Inspection or audit results		

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as # 1
Sensitivity	X			Same as # 1
Representativeness	X			Same as # 1
Completeness	X			Same as # 1
Bias	X			Same as # 1
Validation	X			Same as # 1
Other issue:				

#	4	Indicator Description	Facility sumps are free of water, debris, and product		
		Data Source	Inspection or audit results		

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as # 1
Sensitivity	X			Same as # 1
Representativeness	X			Same as # 1
Completeness	X			Easy to gather information at inspection or audit
Bias	X			Same as # 1
Validation	X			Easy to gather information at inspection or audit
Other issue:				

#	5	Indicator Description	The dispensers are equipped with a pan or a sump		
		Data Source	Inspection or audit results		

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as # 1
Sensitivity	X			Same as # 1
Representativeness	X			Same as # 1
Completeness	X			Same as # 4
Bias	X			Same as # 1
Validation	X			Same as # 4

STATE	Rhode Island		GROUP	Underground Storage Tanks

#	6	Indicator Description	The dispenser's pan or sumps are free of water, debris, and product		
		Data Source	Inspection or audit results		
Data Quality Indicator		good	Okay	Prob-lem	Issue:
Precision		X			Same as # 1
Sensitivity		X			Same as # 1
Representativeness		X			Same as # 1
Completeness		X			Same as # 4
Bias		X			Same as # 1
Validation		X			Same as # 4

#	7	Indicator Description	The facility has records of groundwater monitoring well checks for the past three (3) years		
		Data Source	Inspection or audit results		
Data Quality Indicator		good	Okay	Prob-lem	Issue:
Precision		X			Same as # 1
Sensitivity		X			Same as # 1
Representativeness		X			Same as # 1
Completeness		X			Same as # 1
Bias		X			Same as # 1
Validation		X			Same as # 1

#	8	Indicator Description	The Stage 1 system is inspected on a weekly basis		
		Data Source	Inspection or audit results		
Data Quality Indicator		good	Okay	Prob-lem	Issue:
Precision		X			Same as # 1
Sensitivity		X			Same as # 1
Representativeness		X			Same as # 1
Completeness		X			Same as # 1
Bias		X			Same as # 1
Validation		X			Same as # 1
Other issue:					

STATES' COMMON MEASURES PROJECT
Group and Indicator Packet
GROUP EVALUATION CHART:

STATE	Rhode Island	GROUP	Stage 2 Programs	__ Would do	_X_ Most Interested

Easier to Collect Good Data	*Easier*	*Somewhat difficult*	*More difficult*	*More Difficult to Collect Good Data*	
Consideration	**Complexity of Metrics**				
Single Media	X			Multi Media	
Regulatory or Good Practices Only			X	Both Regulatory and Good Practices	
Few requirements		X		Many Requirements	
Clear Cut Requirements		X		Subjective Requirements	
Complexity of Sector					
Similar Facilities	X			Diverse Facilities	
Small Universe			X	Large Universe	
Prior Experience With Sector					
Existing Sector	X			New Sector	
Existing Data System	X			No Data System	
Existing Common Definitions	X			No Common Definitions	
Known Universe	X			Unknown Universe	
Existing Checklists	X			No Checklists	
Historical Data	X			No Historical Data	
Similar requirements across states		X		Dissimilar requirements across states	
Other Considerations					

More Desirable/Easier Sector	*Most desirable*	*Somewhat desirable*	*Less desirable*	*Less Desirable/Harder Sector*	
Even distribution of facilities across states	X			Uneven distribution of facilities across states	
Important environmental concern	X			Lesser environmental concern	
Regulated by the states and EPA	X			State only sector	
Ability to link to an environmental outcome	X			Inability to link to an environmental outcome	
Facilities are sophisticated about environmental regulation		X		Facilities are unsophisticated about environmental regulation	
No language barriers		X		Language barriers	
Other (list:)					

STATES' COMMON MEASURES PROJECT
Group and Indicator Packet
INDICATOR EVALUATION CHARTS   page 1 of _1_

STATE	Rhode Island		GROUP	Stage 2 Programs

#	1	Indicator Description	Documentation of the Stage II system training is maintained at the facility			
		Data Source	Inspection or audit results			
Data Quality Indicator		**good**	**Okay**	**Prob-lem**	**Issue:**	
Precision		X			Compliance with requirement is clearly defined	
Sensitivity		X			Not an issue, because of Yes/No answer	
Representativeness		X			Good for new inspections or audits	
Completeness		X			Easy to gather information at inspection or audit, with review and verification of documentation as warranted	
Bias		X			Should be no bias with trained inspector	
Validation		X			Easy to validate at inspection or audit, with review and verification of documentation as warranted	
Other issue:						

#	2	Indicator Description	The Stage II system is inspected on a weekly basis			
		Data Source	Inspection or audit results			
Data Quality Indicator		good	Okay	Prob-lem	**Issue:**	
Precision		X			Same as # 1	
Sensitivity		X			Same as # 1	
Representativeness		X			Same as # 1	
Completeness		X			Same as # 1	
Bias		X			Same as # 1	
Validation		X			Same as # 1	
Other issue:						

STATES' COMMON MEASURES PROJECT
Group and Indicator Packet

GROUP EVALUATION CHART:

STATE	Rhode Island	GROUP	Exterior Lead Paint Contractors	__ Would do	_X_ Most Interested

Easier to Collect Good Data	*Easier*	*Somewhat difficult*	*More difficult*	*More Difficult to Collect Good Data*	
Consideration		**Complexity of Metrics**			
Single Media	X			Multi Media	
Regulatory or Good Practices Only	X			Both Regulatory and Good Practices	
Few requirements	X			Many Requirements	
Clear Cut Requirements	X			Subjective Requirements	
		Complexity of Sector			
Similar Facilities	X			Diverse Facilities	
Small Universe		X		Large Universe	
		Prior Experience With Sector			
Existing Sector	X			New Sector	
Existing Data System		X		No Data System	
Existing Common Definitions	X			No Common Definitions	
Known Universe		X		Unknown Universe	
Existing Checklists	X			No Checklists	
Historical Data		X		No Historical Data	
Similar requirements across states			X	Dissimilar requirements across states	
		Other Considerations			
More Desirable/Easier Sector	*Most desirable*	*Somewhat desirable*	*Less desirable*	*Less Desirable/Harder Sector*	
Even distribution of facilities across states	X			Uneven distribution of facilities across states	
Important environmental concern	X			Lesser environmental concern	
Regulated by the states and EPA	X			State only sector	
Ability to link to an environmental outcome		X		Inability to link to an environmental outcome	
Facilities are sophisticated about environmental regulation			X	Facilities are unsophisticated about environmental regulation	
No language barriers		X		Language barriers	
Other (list:)					

STATE	Rhode Island		GROUP	Exterior Lead Paint Contractors

#	1	**Indicator Description**	As required by Federal law, contractor renovating pre-1978 housing (including paint removal) provides the EPA pamphlet titled, *"Protect Your Family from Lead in Your Home"* and receive a signed statement of receipt of the pamphlet, before starting work

Data Source	

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Compliance with requirement is clearly defined
Sensitivity	X			Not an issue because of Yes/No answer
Representativeness	X			Good for new inspections or audits
Completeness		X		May require later follow-up with contractor to produce signed statement
Bias	X			Should be no bias with trained inspector
Validation		X		May require later follow-up with contractor to produce signed statement
Other issue:				Contractor is not at fixed facility, must perform inspection or audit at an ongoing operation

#	2	**Indicator Description**	Contractor uses only approved methods in removing exterior lead paint, or receive approval for use of alternative methods prior to use.

Data Source	Inspection or audit results

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as # 1
Sensitivity	X			Not an issue because of approved methods specified in regulation, alternative methods require prior written approval from DEM
Representativeness	X			Same as # 1
Completeness	X			Easy to gather data from inspection or audit of ongoing operation
Bias	X			Same as # 1
Validation	X			Easy to validate with inspection or audit at an ongoing operation
Other issue:			X	Same as # 1

STATE	Rhode Island		GROUP	Exterior Lead Paint Contractors

#	3	Indicator Description	Contractor uses adequate ground cover, and removes or covers all toys, play equipment, and furnishings within fifty (50) feet of the paint removal project, erect vertical containment if paint debris is observed going beyond ground sheeting.

Data Source	Inspection or audit results

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as # 1
Sensitivity		X		Only issue may be observation by inspector of debris going beyond ground sheeting at the appropriate time
Representativeness				Same as # 1
Completeness				Same as # 2
Bias				Same as # 1
Validation				Same as # 2
Other issue:				Same as # 1

#	4	Indicator Description	Contractor complies with "end of day" inspection and storage requirements

Data Source	Inspection or audit results

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as # 1
Sensitivity		X		Only issue may be actual observation of all requirements, may require a follow-up visit
Representativeness	X			Same as # 1
Completeness	X			Same as # 2
Bias	X			Same as # 1
Validation		X		Only issue may be actual observation of all requirements, may require a follow-up visit
Other issue:			X	Same as # 1

STATES' COMMON MEASURES PROJECT
Group and Indicator Packet
GROUP EVALUATION CHART:

STATE	Rhode Island	GROUP	Auto Salvage/Junkyards		__ Would do	_X_ Most Interested

Easier to Collect Good Data	*Easier*	*Somewhat difficult*	*More difficult*	*More Difficult to Collect Good Data*		
Consideration				**Complexity of Metrics**		
Single Media			X	Multi Media		
Regulatory or Good Practices Only			X	Both Regulatory and Good Practices		
Few requirements			X	Many Requirements		
Clear Cut Requirements		X		Subjective Requirements		
Complexity of Sector						
Similar Facilities	X			Diverse Facilities		
Small Universe	X			Large Universe		
Prior Experience With Sector						
Existing Sector		X		New Sector		
Existing Data System		X		No Data System		
Existing Common Definitions		X		No Common Definitions		
Known Universe	X			Unknown Universe		
Existing Checklists		X		No Checklists		
Historical Data		X		No Historical Data		
Similar requirements across states		X		Dissimilar requirements across states		
Other Considerations						

More Desirable/Easier Sector	*Most desirable*	*Somewhat desirable*	*Less desirable*	*Less Desirable/Harder Sector*		
Even distribution of facilities across states	X			Uneven distribution of facilities across states		
Important environmental concern	X			Lesser environmental concern		
Regulated by the states and EPA	X			State only sector		
Ability to link to an environmental outcome	X			Inability to link to an environmental outcome		
Facilities are sophisticated about environmental regulation		X		Facilities are unsophisticated about environmental regulation		
No language barriers		X		Language barriers		
Other (list:)						

STATES' COMMON MEASURES PROJECT
Group and Indicator Packet
INDICATOR EVALUATION CHARTS   page 1 of _3_

STATE	Rhode Island		GROUP	Auto Salvage/Junkyards

#	1	Indicator Description	Facility has submitted a list of authorized agents that are allowed to sign the manifest			
		Data Source	Inspection or audit results			
Data Quality Indicator		good	Okay	Prob-lem	**Issue:**	
Precision		X			Compliance with requirement is clearly defined	
Sensitivity		X			Not an issue, because of Yes/No answer	
Representativeness		X			Good for new inspections or audits	
Completeness		X			Easy to gather information at inspection or audit, with review and verification of documentation as warranted	
Bias		X			Should be no bias with trained inspector	
Validation		X			Easy to validate at inspection or audit, with review and verification of documentation as warranted	
Other issue:						

#	2	Indicator Description	Facility has appropriate documentation or process knowledge that supports its hazardous waste determination for all waste streams			
		Data Source	Inspection or audit results			
Data Quality Indicator		good	Okay	Prob-lem	**Issue:**	
Precision		X			Same as # 1	
Sensitivity		X			Same as # 1	
Representativeness		X			Same as # 1	
Completeness		X			Same as # 1	
Bias		X			Same as # 1	
Validation		X			Same as # 1	
Other issue:						

STATE	Rhode Island		GROUP	Auto Salvage/Junkyards

#	3	**Indicator Description**	Facility has appropriate documentation to show where waste is being shipped

Data Source		Inspection or audit results

Data Quality Indicator	**good**	**Okay**	**Prob-lem**	**Issue:**
Precision	X			Same as # 1
Sensitivity	X			Same as # 1
Representativeness	X			Same as # 1
Completeness	X			Same as # 1
Bias	X			Same as # 1
Validation	X			Same as # 1
Other issue:				

#	4	**Indicator Description**	For satellite accumulation area storage, container is labeled with the words "Hazardous Waste" and the contents of the container

Data Source		Inspection or audit results

Data Quality Indicator	**good**	**Okay**	**Prob-lem**	**Issue:**
Precision	X			Same as # 1
Sensitivity	X			Same as # 1
Representativeness	X			Same as # 1
Completeness	X			Same as # 1
Bias	X			Same as # 1
Validation	X			Same as # 1

#	5	**Indicator Description**	All containers are kept closed when not in use, with bung plugs or covers in place and funnels in use only when needed

Data Source		Inspection or audit results

Data Quality Indicator	**good**	**Okay**	**Prob-lem**	**Issue:**
Precision	X			Same as # 1
Sensitivity	X			Same as # 1
Representativeness	X			Same as # 1
Completeness	X			Same as # 1
Bias	X			Same as # 1
Validation	X			Same as # 1

STATE	Rhode Island		GROUP	Auto Salvage/Junkyards

#	6	Indicator Description	Facility removes convenience light switches from vehicles

	Data Source	Inspection or audit results

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as # 1
Sensitivity	X			Same as # 1
Representativeness	X			Same as # 1
Completeness	X			Same as # 1
Bias	X			Same as # 1
Validation	X			Same as # 1

#	7	Indicator Description	All business activities that can cause a spill or leak are conducted on an impermeable surface where spills/leaks are cleaned up promptly

	Data Source	Inspection or audit results

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as # 1
Sensitivity	X			Same as # 1
Representativeness	X			Same as # 1
Completeness	X			Same as # 1
Bias	X			Same as # 1
Validation	X			Same as # 1

#	8	Indicator Description	Facility has a Stormwater Pollution Prevention Plan in place, in compliance with the Stormwater Multi-Sector General Permit

	Data Source	Inspection or audit results

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as # 1
Sensitivity	X			Same as # 1
Representativeness	X			Same as # 1
Completeness	X			Same as # 1
Bias	X			Same as # 1
Validation	X			Same as # 1

STATES' COMMON MEASURES PROJECT
Group and Indicator Packet
GROUP EVALUATION CHART:

STATE	**Rhode Island**	GROUP	Auto Body	__ Would do	_X_ Most Interested

Easier to Collect Good Data	*Easier*	*Somewhat difficult*	*More difficult*	*More Difficult to Collect Good Data*	
Consideration		**Complexity of Metrics**			
Single Media			X	Multi Media	
Regulatory or Good Practices Only			X	Both Regulatory and Good Practices	
Few requirements			X	Many Requirements	
Clear Cut Requirements				Subjective Requirements	
Complexity of Sector					
Similar Facilities	X			Diverse Facilities	
Small Universe		X		Large Universe	
Prior Experience With Sector					
Existing Sector	X			New Sector	
Existing Data System		X		No Data System	
Existing Common Definitions	X			No Common Definitions	
Known Universe	X			Unknown Universe	
Existing Checklists	X			No Checklists	
Historical Data	X			No Historical Data	
Similar requirements across states	X			Dissimilar requirements across states	
Other Considerations					
More Desirable/Easier Sector	*Most desirable*	*Somewhat desirable*	*Less desirable*	*Less Desirable/Harder Sector*	
Even distribution of facilities across states	X			Uneven distribution of facilities across states	
Important environmental concern		X		Lesser environmental concern	
Regulated by the states and EPA	X			State only sector	
Ability to link to an environmental outcome	X			Inability to link to an environmental outcome	
Facilities are sophisticated about environmental regulation		X		Facilities are unsophisticated about environmental regulation	
No language barriers		X		Language barriers	
Other (list:)					

STATE	Rhode Island		GROUP	Auto Body

#	1	Indicator Description	Facility has appropriate documentation or process knowledge that supports its hazardous waste determination for all waste streams
		Data Source	Inspection or audit results

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Compliance with requirement is clearly defined
Sensitivity	X			Not an issue, because of Yes/No answer
Representativeness	X			Good for new inspections or audits
Completeness	X			Easy to gather information at inspection or audit, with review and verification of documentation as warranted
Bias	X			Should be no bias with trained inspector
Validation	X			Easy to validate at inspection or audit, with review and verification of documentation as warranted
Other issue:				

#	2	Indicator Description	Facility has submitted a list of authorized agents that are allowed to sign the manifest
		Data Source	Inspection or audit results

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			Same as # 1
Sensitivity	X			Same as # 1
Representativeness	X			Same as # 1
Completeness	X			Same as # 1
Bias	X			Same as # 1
Validation	X			Same as # 1
Other issue:				

STATE	Rhode Island		GROUP	Auto Body

#	3	Indicator Description	Facility has appropriate documentation to show where waste is being shipped			
		Data Source	Inspection or audit results			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision			X			Same as # 1
Sensitivity			X			Same as # 1
Representativeness			X			Same as # 1
Completeness			X			Same as # 1
Bias			X			Same as # 1
Validation			X			Same as # 1

#	4	Indicator Description	For satellite accumulation area storage, the container is labeled with the words "Hazardous Waste" and the contents of the container			
		Data Source	Inspection or audit results			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision			X			Same as # 1
Sensitivity			X			Same as # 1
Representativeness			X			Same as # 1
Completeness			X			Same as # 1
Bias			X			Same as # 1
Validation			X			Same as # 1

#	5	Indicator Description	For 90 day storage, the container is labeled with the date that it was placed in storage			
		Data Source	Inspection or audit results			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision			X			Same as # 1
Sensitivity			X			Same as # 1
Representativeness			X			Same as # 1
Completeness			X			Same as # 2
Bias			X			Same as # 1
Validation			X			Same as # 2
Other issue:						

STATE	Rhode Island		GROUP	Auto Body

#	6	**Indicator Description**	Facility does not use methylene chloride paint strippers			
		Data Source	Inspection or audit results			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision			X			Same as # 1
Sensitivity			X			Same as # 1
Representativeness			X			Same as # 1
Completeness			X			Same as # 1
Bias			X			Same as # 1
Validation			X			Same as # 1

#	7	**Indicator Description**	The spray gun cleaning device is totally enclosed during cleaning, rinsing, and draining operations			
		Data Source	Inspection or audit results			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision			X			Same as # 1
Sensitivity			X			Same as # 1
Representativeness			X			Same as # 1
Completeness			X			Same as # 1
Bias			X			Same as # 1
Validation			X			Same as # 1

#	8	**Indicator Description**	Open floor drains are properly permitted			
		Data Source	Inspection or audit results			
Data Quality Indicator			good	Okay	Prob-lem	Issue:
Precision			X			Same as # 1
Sensitivity			X			Same as # 1
Representativeness			X			Same as # 1
Completeness			X			Same as # 1
Bias			X			Same as # 1
Validation			X			Same as # 1
Other issue:						

STATES' COMMON MEASURES PROJECT
Group and Indicator Packet

GROUP EVALUATION CHART:

STATE	Rhode Island	GROUP	Dental Clinics	__ Would do	_X_Most Interested

Easier to Collect Good Data	*Easier*	*Somewhat difficult*	*More difficult*	*More Difficult to Collect Good Data*
Consideration		**Complexity of Metrics**		
Single Media	X			Multi Media
Regulatory or Good Practices Only				Both Regulatory and Good Practices
Few requirements				Many Requirements
Clear Cut Requirements				Subjective Requirements
		Complexity of Sector		
Similar Facilities	X			Diverse Facilities
Small Universe	X			Large Universe
		Prior Experience With Sector		
Existing Sector			X	New Sector
Existing Data System			X	No Data System
Existing Common Definitions		X		No Common Definitions
Known Universe		X		Unknown Universe
Existing Checklists		X		No Checklists
Historical Data			X	No Historical Data
Similar requirements across states		X		Dissimilar requirements across states
		Other Considerations		

More Desirable/Easier Sector	*Most desirable*	*Somewhat desirable*	*Less desirable*	*Less Desirable/Harder Sector*
Even distribution of facilities across states	X			Uneven distribution of facilities across states
Important environmental concern	X			Lesser environmental concern
Regulated by the states and EPA	X			State only sector
Ability to link to an environmental outcome		X		Inability to link to an environmental outcome
Facilities are sophisticated about environmental regulation	X			Facilities are unsophisticated about environmental regulation
No language barriers		X		Language barriers
Other (list:)				

STATES' COMMON MEASURES PROJECT
Group and Indicator Packet
INDICATOR EVALUATION CHARTS   page 1 of _1_

STATE	Rhode Island		GROUP	Dental Clinics

#		Indicator Description	**New Sector, indicators not established**			
		Data Source				
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision						
Sensitivity						
Representativeness						
Completeness						
Bias						
Validation						
Other issue:						

#		Indicator Description				
		Data Source				
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision						
Sensitivity						
Representativeness						
Completeness						
Bias						
Validation						
Other issue:						

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GROUP EVALUATION CHART:

STATE	Vermont	GROUP	Dental		__ Would do	_X_ Most Interested

Easier to Collect Good Data	*Easier*	*Somewhat difficult*	*More difficult*	*More Difficult to Collect Good Data*		
Consideration	**Complexity of Metrics**					
Single Media		X		Multi Media		
Regulatory or Good Practices Only		X		Both Regulatory and Good Practices		
Few requirements	X			Many Requirements		
Clear Cut Requirements	X			Subjective Requirements		
Complexity of Sector						
Similar Facilities	X			Diverse Facilities		
Small Universe		X		Large Universe		
Prior Experience With Sector						
Existing Sector	X			New Sector		
Existing Data System		X		No Data System		
Existing Common Definitions	X			No Common Definitions		
Known Universe	X			Unknown Universe		
Existing Checklists	X			No Checklists		
Historical Data		X		No Historical Data		
Similar requirements across states	X			Dissimilar requirements across states		
Other Considerations						
More Desirable/Easier Sector	*Most desirable*	*Somewhat desirable*	*Less desirable*	*Less Desirable/Harder Sector*		
Even distribution of facilities across states	X			Uneven distribution of facilities across states		
Important environmental concern	X			Lesser environmental concern		
Regulated by the states and EPA			X	State only sector		
Ability to link to an environmental outcome		X		Inability to link to an environmental outcome		
Facilities are sophisticated about environmental regulation	X			Facilities are unsophisticated about environmental regulation		
No language barriers	X			Language barriers		
Other (list:)						

STATE	Vermont		GROUP	Dental

#	1	**Indicator Description**	All amalgam wastes are collected ad properly stored (not placed in trash, wastewater, sharps container, or biohazard bags)			
		Data Source				
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation						
Other issue:						

#	2	**Indicator Description**	All amalgam wastes are transported off site by a licensed transporter to a licensed recycling facility.			
		Data Source				
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation						
Other issue:						

STATE	Vermont		GROUP	Dental

#	3	Indicator Description	Amalgam separators are installed in practices that place or remove amalgam.
		Data Source	

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation				

#	4	Indicator Description	Amalgam separators are routinely inspected and maintained (including cartridge or unit replacement).
		Data Source	

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation	X			

#	5	Indicator Description	Amalgam separator sludge is transported off site by a licensed transporter to a licensed recycling facility.
		Data Source	

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation				

STATE		GROUP	

#	6	Indicator Description	All other non-amalgam hazardous wastes (X-ray fixer, lead foils/shields/aprons, and universal wastes are properly disposed as a hazardous waste.
		Data Source	

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation				
Other issue:				

#		Indicator Description	
		Data Source	

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision				
Sensitivity				
Representativeness				
Completeness				
Bias				
Validation				
Other issue:				

VT DEC STATES' COMMON MEASURES PROJECT
Group and Indicator Packet

GROUP EVALUATION CHART:

STATE	Vermont	GROUP	Small Quantity Generators	_X_ Would do	__ Most Interested

Easier to Collect Good Data	*Easier*	*Somewhat difficult*	*More difficult*	*More Difficult to Collect Good Data*	

Consideration	Complexity of Metrics				
Single Media	x			Multi Media	
Regulatory or Good Practices Only	x			Both Regulatory and Good Practices	
Few requirements		x		Many Requirements	
Clear Cut Requirements		x		Subjective Requirements	

Complexity of Sector					
Similar Facilities			x	Diverse Facilities	
Small Universe			x	Large Universe	

Prior Experience With Sector					
Existing Sector	x			New Sector	
Existing Data System	x			No Data System	
Existing Common Definitions		x		No Common Definitions	
Known Universe	x			Unknown Universe	
Existing Checklists	x			No Checklists	
Historical Data		x		No Historical Data	
Similar requirements across states		x		Dissimilar requirements across states	

Other Considerations					

More Desirable/Easier Sector	*Most desirable*	*Somewhat desirable*	*Less desirable*	*Less Desirable/Harder Sector*	
Even distribution of facilities across states		x		Uneven distribution of facilities across states	
Important environmental concern	x			Lesser environmental concern	
Regulated by the states and EPA	x			State only sector	
Ability to link to an environmental outcome		x		Inability to link to an environmental outcome	
Facilities are sophisticated about environmental regulation		x		Facilities are unsophisticated about environmental regulation	
No language barriers	x			Language barriers	
Other (list:)					

STATES' COMMON MEASURES PROJECT
Group and Indicator Packet
INDICATOR EVALUATION CHARTS   page 1 of 3

STATE	Vermont		GROUP	*Hazardous Waste Small Quantity Generators*

#	1	**Indicator Description**	All hazardous waste is stored in closed containers			
		Data Source	New inspections and historic data			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation			X			
Other issue:						

#	2	**Indicator Description**	All hazardous waste is stored on an impervious surface			
		Data Source	New inspections and historic data			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision				X		"impervious" is somewhat subjective
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation						
Other issue:						

STATE	Vermont		GROUP	*Hazardous Waste Small Quantity Generators*

#	3	Indicator Description	All hazardous waste is stored under cover and protected from freezing			
		Data Source	New inspections and historic data			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation						

#	4	Indicator Description	Facility did not exceed quantity thresholds for SQGs			
		Data Source	New inspections and historic data			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation						
Other issue:						

#	5	Indicator Description	Facility did not store waste for > 180 days			
		Data Source	New inspections and historic data			
Data Quality Indicator			good	Okay	Prob-lem	**Issue:**
Precision			X			
Sensitivity			X			
Representativeness			X			
Completeness			X			
Bias			X			
Validation						

STATE	Vermont		GROUP	*Hazardous Waste Small Quantity Generators*

#	6	Indicator Description	Facility has identified all hazardous wastes on-site (HW determinations)
		Data Source	New inspections and historic data

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation				
Other issue:				

#	7	Indicator Description	All hazardous waste containers are properly labeled
		Data Source	New inspections and historic data

Data Quality Indicator	good	Okay	Prob-lem	Issue:
Precision	X			
Sensitivity	X			
Representativeness	X			
Completeness	X			
Bias	X			
Validation				
Other issue:				