



Performance Data Quality
The Data Quality Record and Pre-
Dissemination Review Certification

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Analysis Staff**

1/12/2012

202-564-8638

Examples of EPA's Performance

Measures:

- Cubic yards of contaminated sediment remediated (cumulative from 1997) in the Great Lakes
- Acres of Brownfields properties made ready for reuse



Performance Data Quality

The Results Act requires agencies to “describe the means to verify and validate measured values of performance“

- **Verification:** the assessment of data completeness, accuracy, and consistency and related quality control practices to ensure the data will be of sufficient quality to document performance and support decision-making.
- **Validation** is the assessment of whether the data are appropriate for the intended use.



Performance Data Quality

Reliability of EPA's Performance Data

Data used to report performance results are reliable and as complete as possible. Because improvements in human health and the environment may not become immediately apparent, there might be delays between the actions we have taken and results we can measure. Consequently, we cannot provide results data for several of our performance measures for this reporting year. When possible, however, we have portrayed trend data to illustrate progress over time. We also report final performance results for prior years which became available in FY 2010.

Lisa P. Jackson
Administrator

Date

1120

From EPA's 2011 Annual Performance Report
<http://www.epa.gov/planandbudget/archive.html>

Requirement to Provide DQ Information to Public

- OMB Circular A-11 (Section 230)
- EPA's Information Quality Guidelines
- Open Government

The Data Quality Record

- Summary of management controls, quality procedures and other pertinent metadata associated with the performance data
- Organized around the data lifecycle
- Managed in a custom Lotus Notes Application




Performance Data Quality

Performance Data Quality - IBM Lotus Notes

File Edit View Create Actions Tools Help

Data Quality Records - By BAS Code B29 Performance Data Quality



Performance Data Quality (PDQ) Database

Data Quality Records (DQR) Module

Pre-Dissemination Review (PDR) Certification

Click Button to Open DQR Database

Using application on DCAOES01/DC/USEPA/US

EPAHUBZ -Remote

Edit Record

ACS or BAS Code. This uniquely identifies the measure in ACS or BAS/PERS.	E
Measure Text. This is the official performance measure language.	Percent of the population in Indian country served by community water systems that receive drinking water that meets all applicable health-based drinking water standards
1a. Performance Measure Term Definitions. Provide definitions of terms used in the official performance measure text <i>For More Information</i>	Indian country
1b. Managing Office. Identify the programmatic office, within the NPM, responsible for managing the measure (e.g., Office of Ground Water and Drinking Water, Office of Brownfields and Land Revitalization).	
Shareholder(s)	
Measure Type	External
Strategic Plan, Fiscal Year, CJ or OMB, BAS Version Number	5.0 2013 OMB 1
Key Performance Indicator	

Administrative Data:

- Measure Text and Code
- Measure Term Definitions
- Goal/Objective

tion Agency (EPA) defines a serves at least 15 service east 25 year-round residents. ted States. They are a tely owned systems whose ne parks) to very large

pdf
 ximum contaminant level

- Goal Number
- Goal Title
- Objective Number
- Objective Title
- Sub-Objective Number
- Sub-Objective Title
- Strategic Target Code
- Strategic Target Title

2. DATA DEFINITION AND SOURCE REPORTING	<input type="checkbox"/>
3. INFORMATION SYSTEMS AND DATA QUALITY PROCEDURES	<input type="checkbox"/>
4. REPORTING AND OVERSIGHT	<input type="checkbox"/>
5. REVIEW AND CERTIFICATION	<input type="checkbox"/>

Purpose

- 1. MEASURE AND DQR METADATA
- 2. DATA DEFINITION AND SOURCE REPORTING

This tab is intended to provide clear and concise information about the origin and characteristics of the data EPA uses to calculate performance. This is expected to assist users in understanding the representativeness and validity of the performance result.

Measure Text: Percent of the population in Indian country served by community water systems that receive drinking water that meets all applicable health-based drinking water standards

2a. Original Data Source. Identify the name or type of organization(s) from which EPA is the source of the data, except for the Navajo Nation Indian tribe, the only tribe calculating performance.

Concise Field Definitions

Hyperlinks allowed; also Word docs.

2b. Source Data Collection. Describe the source data are collected, including citing the quality control procedures used to ensure sufficient detail so that the data are representative and reliable of the source and the appropriateness of their use for this performance.

2c. Source Data Reporting. Identify the form/mechanism by which (1) EPA receives data from the original data sources and (2) EPA enters the data into an EPA information system. Also, specify the timing and frequency of data transmission.

Under the drinking water regulations, water systems must use approved analytical methods for testing for contaminants. Public Water Sanitary System (PWSS) Regulation-Specific Reporting Requirements Guidance. Available on the Internet at <http://www.epa.gov/safewater/regs.html>. System, user, and reporting requirements documents can be found on the EPA web site, <http://www.epa.gov/safewater/>. States may choose to use electronic Data Verification (eDV) tool to help improve data quality.

- 3. INFORMATION SYSTEMS AND DATA
- 4. REPORTING AND OVERSIGHT
- 5. REVIEW AND CERTIFICATION

Edit History

Edit History

Created: 12/08/2011 02:26 PM - Patricia Mundy/ED/USEPA/US
Modified: 12/08/2011 02:48 PM - Patricia Mundy/ED/USEPA/US

This tab is intended to detail the steps EPA undertakes in transforming the original data into a final performance result. Users should be able to understand both how the result connects back to the original data and also the quality procedures EPA undertakes to minimize biases and errors in data handling.

Measure Text: Percent of Tribes conducting EPA approved environmental monitoring and assessment activities in Indian country (cumulative.)

3a. Information Systems. Describe each EPA information system utilized in the process of collecting, calculating and/or reporting the results for this measure.

▶ [For More Information](#)

The Tribal Program Management System (TPMS) is the database that holds the performance information

The URL is <https://iaspub.epa.gov/TATS/>

The information is entered into standard query fields in the data system. Thus, there is no allowance for differences in reporting across EPA's Regional offices, and national reports can be assembled in a common framework. The assumption is that the authorized person who enters the data is knowledgeable about the performance status of the tribe.

3b. Data Quality Procedures. Describe the oversight, review and quality assurance procedures for data reported to EPA by the originator.

▶ [For More Information](#)

3c. Data Oversight. Identify, by name, the person responsible for overseeing (1) so that the information systems utilized result in accurate data. Specify the responsibilities.

▶ [For More Information](#)

3d. Calculation Methodology. Describe the methodology used by EPA to transform original data into the performance result for this measure. Explain changes to the methodology that have occurred.

▶ [For More Information](#)

Each row in the report is a fiscal year. Calculation methodology is: Count number of tribes with at least one active QAPP in a fiscal year. [Not clear, please specify, are you counting a tribe only once, even if it has more than one QAPP?]

Calculation of Percentages: 572 is the number that is used to calculate percentage, and reflects tribal bands that are independent entities and are eligible for EPA funding.

Information on Data Flow Within EPA:

- Data Systems
- Data Quality Procedures/Standards
- Database Oversight and Management

4. REPORTING AND OVERSIGHT

This tab is intended to ensure users clearly understand how EPA oversees quality at the final stage of reporting, to help ensure users do not misinterpret results, and to summarize for users the most important quality issues (and the degree to which they are being resolved).

Measure Text: Number of hazardous waste facilities with new or updated controls.

4a. Oversight and Timing of Results Reporting. Identify EPA personnel who oversee final reporting by the National Program Office (NPO). Explain those individuals' responsibilities specific to performance reporting oversight. Specify the frequency of reporting, if other than annual.

▶ [For More Information](#)

4b. Data Limitations/Qualifications. Identify limitations or qualifications necessary for properly interpreting the results reported for the performance measure.

▶ [For More Information](#)

4c. Third-Party Audits. Clearly identify all independent assessments of any part of the performance measure.

▶ [For More Information](#)

Even with the increasing emphasis on data quality, with roughly 10,000 units in the baseline (e.g., a facility can have more than one unit), there are problems with the number of units reported. The older units are more difficult to resolve.

the notification of violations numbers and EPA (October 21, 2005).

as Waste: On August 22, 1995, EPA's Office of Air Quality Planning issued guidance on the formation of data quality objectives. Those objectives of data quality are to minimize the impact on the part as a "Data Quality Assessment" release (V4).

Program Area 5.

Reporting Considerations:

- Data Limitations
- Results of 3rd Party Audits
- Reporting Oversight

Final Reviewer marks record "Ready for Certification"

5. REVIEW AND CERTIFICATION

This tab provides assurance and accountability for the accuracy of the DQR. The certification aspect of this PDR certification, in which the program attests that documented quality procedures have been followed for results.

Measure Text:

5a. Authorized Completeness Reviewers. Use the drop-down menu to identify one or more individuals authorized to indicate in field 5b that a final completeness review has been conducted, thereby making the record ready for certification. Provide titles of individuals in text field.

▶ For More Information

- Gerome-V Burke ~ OSWER/OSRTI/RMD ~
- HowardE Rubin ~ OW,GWDW,DWPD ~ 202
- Jill Smink ~ OW,OAA,IO ~ 202-540-9196
- Jim Blubaugh ~ OAR,OTAO,CISD ~ 202-343
- Joel Scheraga ~ Policy ~ Climate Change
- Joel Scheraga ~ Policy ~ Climate Change Adaptation Science
- Joel Scheraga ~ Policy ~ Climate Change Adaptation Science
- Joseph Greenblott ~ OCFO,OPAA,AS ~ 202-564-4250
- Judy Lieberman ~ OCFO,OPAA,AS ~ 202-564-8638

Add Person Not Listed in Drop-Down Menu

Judy Lieberman , OCFO,OPAA,AS , 202-564-8638

5b. Completeness Review Conducted? Authorized reviewer selects "Yes" or "No".

▶ For More Information

Mark Record "Ready for Certification" or "Not Ready for Certification"

5c. Officials Authorized to Certify. Use the drop-down menu to select the SIO and any individuals authorized by SIO to certify the record.

▶ For More Information

Enter Person

New Person

Name

Office Quick Fill

Location

E-mail

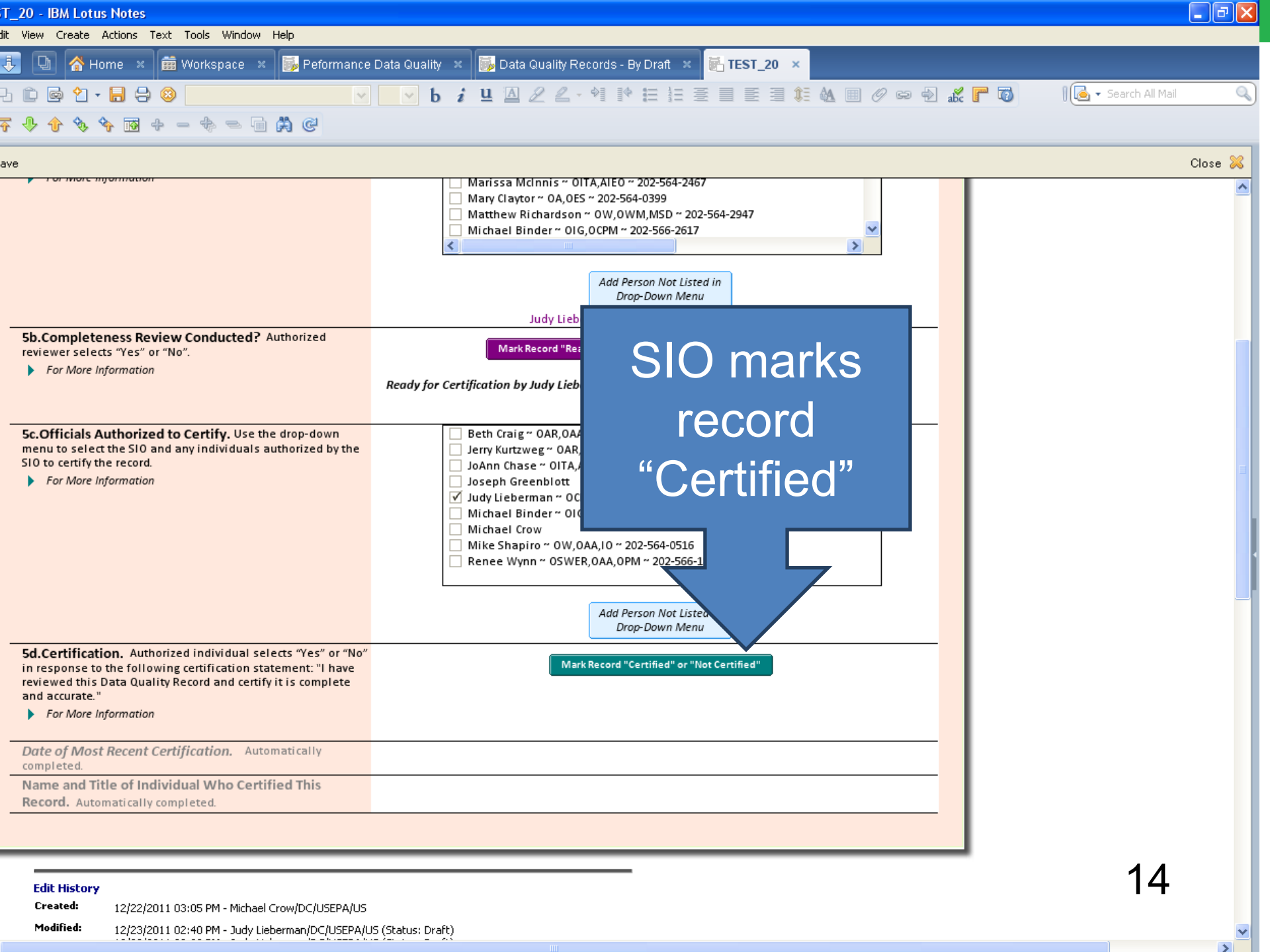
Phone

Title

Look Up Person in Domino Directory

OK Cancel

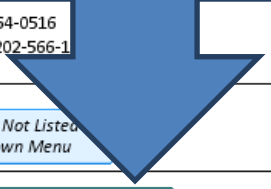
5d. Certification. Authorized individual selects "Yes" or "No" in response to the following certification statement: "I have reviewed this Data Quality Record and certify it is complete and accurate."



- Marissa Mdnis ~ OITA,AIEO ~ 202-564-2467
- Mary Claytor ~ OA,OES ~ 202-564-0399
- Matthew Richardson ~ OW,OWM,MSD ~ 202-564-2947
- Michael Binder ~ OIG,OCPM ~ 202-566-2617

Add Person Not Listed in Drop-Down Menu

SIO marks record "Certified"



Add Person Not Listed in Drop-Down Menu

Mark Record "Certified" or "Not Certified"

- Beth Craig ~ OAR,OAA
- Jerry Kurtzweg ~ OAR
- JoAnn Chase ~ OITA,
- Joseph Greenblott
- Judy Lieberman ~ OC
- Michael Binder ~ OIG
- Michael Crow
- Mike Shapiro ~ OW,OAA,IO ~ 202-564-0516
- Renee Wynn ~ OSWER,OAA,OPM ~ 202-566-1

5b. Completeness Review Conducted? Authorized reviewer selects "Yes" or "No".

5c. Officials Authorized to Certify. Use the drop-down menu to select the SIO and any individuals authorized by the SIO to certify the record.

5d. Certification. Authorized individual selects "Yes" or "No" in response to the following certification statement: "I have reviewed this Data Quality Record and certify it is complete and accurate."

Date of Most Recent Certification. Automatically completed.

Name and Title of Individual Who Certified This Record. Automatically completed.

Edit History
Created: 12/22/2011 03:05 PM - Michael Crow/DC/USEPA/US
Modified: 12/23/2011 02:40 PM - Judy Lieberman/DC/USEPA/US (Status: Draft)



Performance

Further Help Information on Required Field Elements

Quality

1. MEASURE AND DQR METADATA

2. DATA DEFINITION AND SOURCE REPORTING

This tab is intended to provide clear and concise information about the origin and characteristics of the data used for calculating performance. This is expected to assist users in understanding the representativeness and validity of the data.

Measure Text: Percent of the population in Indian country served drinking water standards

2a. Original Data Source. Identify the name or type of organization(s) from which EPA receives the data used for calculating performance.

▶ *For More Information*

2b. Source Data Collection. Detail the manner by which source data are collected by the original data source(s), including citing the quality procedures followed. Provide sufficient detail so that users understand the representativeness and reliability of the source data, and the appropriateness of their use for this performance measure.

▶ *For More Information*

2c. Source Data Reporting. Identify the form/mechanism by which (1) EPA receives data from the original data sources and (2) EPA enters the data into an EPA information system. Also, specify the timing and frequency of data transmission.

▶ *For More Information*

1. MEASURE AND DQR METADATA

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Measure Text: Number of LUST cleanups that meet risk-based standards for human exposure

2a. Original Data Source. Identify the name or type of organization(s) from which EPA receives the data used for calculating performance.

▼ *For More Information*

NECESSARY: This field should identify sources of data used for the calculation of the performance result. Be sure to identify data generated both outside EPA and by EPA staff. Address both primary and secondary data. ("Primary" data are those collected primarily for the purpose of this performance measure, while "secondary" data are those collected primarily for another purpose.)

EXAMPLES:

- External organization(s) responsible for transferring data to EPA (e.g., state or local government, EPA contractors)
- The source from which EPA mines secondary data (e.g., Census database, CDC health surveys, trade association reports)
- EPA staff who generate the original data (e.g., for measures that track EPA activity, such as number of reviews or inspections conducted by EPA staff)

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This tab is intended to provide clear and concise information about the origin and characteristics of the data used for calculating performance. This is expected to assist users in understanding the representativeness and validity of the data.

The original data source is State Storage Tank (LUST) agreement sub-recipients (such as local government).

Each EPA regional office manages

For more information:

1. US EPA Office of Undersecretary for Policy Implementation. "Implementing the LUST Provisions of the Superfund Recovery Act of 2009." EPA-510-R-09-003. <http://www.epa.gov/oust/eparec>
2. US EPA Office Of Undersecretary for Policy Implementation. "Recovery Act Recipient Reporting Requirements Under the Superfund Reinvestment Act of 2009." Memo dated October 2, 2009. <http://www.epa.gov/oust/eparec>

Determination of cleanup completion is based on field sampling, which can vary by site. The number LUST clean-ups completed




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Using application on DCAOES01/DC/USEPA/US EPAHUBZ -Remote

Pre-dissemination Review Certification Form

Fiscal Year - 2012 Quarter - N/A

Information Product	<input checked="" type="radio"/> Annual Plan/CJ/Annual Performance Report <input type="radio"/> Strategic Plan <input type="radio"/> Recovery Act Quarterly Report <input type="radio"/> *Other
NPM	<input type="radio"/> OA <input type="radio"/> OARM <input type="radio"/> OCSP <input type="radio"/> OEI <input type="radio"/> OIG <input type="radio"/> ORD <input type="radio"/> OW <input type="radio"/> OAR <input type="radio"/> OCFO <input type="radio"/> OECA <input type="radio"/> OGC <input checked="" type="radio"/> OITA <input type="radio"/> OSWER
	The Program collects and uses <u>environmental data</u> in accordance with: <ul style="list-style-type: none">● An Agency-approved quality program (e.g., Quality Management Plan)● Quality assurance requirements that are stipulated in extramural agreements including grants, cooperative agreements, interagency agreements and contracts.
	The Program collects and reports <u>performance data and information</u> in accordance with: <ul style="list-style-type: none">● Procedures referenced in Data Quality Records (DQRs) or other appropriate documentation.● Roles and responsibilities designated in DQRs or other appropriate documentation.
	<u>Review and reporting procedures</u> used by the Program for this information product conform to the Agency's Information Quality Guidelines and are appropriate for ensuring the information's: <ul style="list-style-type: none">● Objectivity● Utility● Integrity

I certify that my organization has an approved quality program in place that includes sufficiently comprehensive quality assurance and pre-dissemination review procedures to meet the intent of OMB's and EPA's data quality policies, standards, and guidance. My organization has performed due diligent pre-dissemination reviews of the information provided for this information product. To the best of my knowledge, the information meets EPA's Information Quality Guidelines expectations and are of appropriate quality for dissemination.

Certification History:

Certified by Michelle DePass , Assistant Administrator on 2/2/2011

Notification History

Notification sent to Barbara Bennett , Joseph Greenblott , Judy Lieberman - 2/2/2011 11:30:49 AM



Contact Information:

**Judy Lieberman,
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the Chief
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202-564-8638**