

AQS Development and Enhancement Plans

AQS CONFERENCE

Jake Summers
June 7, 2006

AQS Development/ Enhancement Plans

- Purpose
- System Status
- Development Plan
- Data Improvements
- Software Implementations

LIII Purpose

To present an overview of the AQS data system including status, development plan, data improvements, and software implementations.

IIII System Status

- Operational for 52 months
 - Average of 7.2 million values per month
- For April 2006
 - 1343 Files loaded with 7.4 million values
 - 697 Post jobs
- Agencies reporting data
 - State 55
 - Local 41
 - Tribe 33 reporting, 24 others registered
 - Other -8

LL System Status

- About 5,125 retrievals in April 2006
- Number of new software bugs low
- 585 Active registered users, 447 inactive
- Raw Data 1993 to present on AQSPROD
 - 852 million rows

LL System Status

- First system to migrate to new hardware
 - Replaced database server May 2005
 - » Improved Performance
 - » One Password
 - Replaced application server March 3, 2006
 - » New WEB address
 - » New version JInitiator User issues

IIII Development Plan

- Maintenance
 - Software bug resolution
- Documentation Updates
- Technology Assessment
- Implement revised Facility Data Standard
- Monitoring regulation/NAAQS changes

IIII Development Plan

- Lab blanks reporting
- Implement the New CBSA Definitions
- 2006 Conference Issues
- Modify Processing for alt MDL
- Exceptional Event Changes
- Monitoring Season for any parameter

Data Improvements

- IMPROVE Data Years 1988 to 1999
- Archive planned for 1993 to 1995
- Update WEB files by year for criteria parameters and speciation
- PM2.5 parameter changes planned

Data Improvements

- AQS Raw Data Mart implemented
- Katrina data processing
- Recalculate summaries for MDL change
- Coordinate updates

IIII Software Implementations

- Major Software Implementations
 - Precision/Accuracy Summary Extraction
 - Implement Disaster Recovery Plan
 - 2004 Conference Recommendations
 - » Automatic Precision Data Generation
 - » Enter Single Date to Terminate a Monitor
 - New XML schema for ESAR data standard

IIII Software Implementations

- Major Software Implementations
 - WEB Services for retrievals from Data Mart
 - Katrina Data Assessment Report
 - AQS P & A Tribal Codes
- Minor Software Enhancements
 - Modify Critical Review Reports for Tribal
 Codes uses standard report interface
 - Quick Look format change

Software Implementations Quick Look Before Change

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Mar. 27, 2006

Sulfur dioxide (42401) New York Parts per million (007)

SITE ID	P								1ST	2ND		1ST	2ND		1ST	2ND			
	0	REP		COUNTY	ADDRESS	YEAR	метн	# OBS	MAX 24-HR	MAX 24-HR	#OBS >0.14	MAX 3-HR	MAX 3-HR	#OBS >0.5	MAX 1-HR	MAX 1-HR	ARITH		
	C	ORG	CITY														MEAN (CERT	EDT
36-005-0083	1	0768	New York	Bronx	200TH STREE	2003	009	8627	.051	.048	0	.079	.079	0	.097	.085	.0087	Y	0
36-005-0083	1	0768	New York	Bronx	200TH STREE	2004	009	8705	.036	.033	0	.070	.057	0	.073	.072	.0087		0
36-005-0083	1	0768	New York	Bronx	200TH STREE	2005	009	8419	.042	.039	0	.061	.054	0	.070	.064	.0093		0
36-005-0110	1	0768	New York	Bronx	E 156TH ST :	2003	009	8458	.052	.051	0	.089	.078	0	.113	.094	.0106	Y	0
36-005-0110	1	0768	New York	Bronx	E 156TH ST :	2004	009	8608	.036	.035	0	.072	.061	0	.102	.079	.0103		0
36-005-0110	1	0768	New York	Bronx	E 156TH ST :	2005	009	7817	.047	.042	0	.079	.067	0	.102	.094	.0109		0
36-061-0056	1	0768	New York	New York	PS 59, 288	2003	009	5176	.047	.047	0	.071	.071	0	.093	.081	.0139*	Y	0
36-061-0056	1	0768	New York	New York	PS 59, 288	2004	009	6923	.037	.034	0	.073	.054	0	.116	.073	.0102		0
36-061-0056	1	0768	New York	New York	PS 59, 288	2005	009	8565	.042	.038	0	.059	.056	0	.081	.073	.0112		0
36-081-0124	1	0768	New York	Queens	14439 GRAVE	2003	009	8443	.039	.032	0	.051	.049	0	.135	.056	.0070	Y	0
36-081-0124	1	0768	New York	Queens	14439 GRAVE	2004	009	8310	.029	.028	0	.059	.049	0	.098	.068	.0056		0
36-081-0124	1	0768	New York	Queens	14439 GRAVE	2005	009	8490	.030	.025	0	.049	.047	0	.085	.057	.0065		0

Software Implementations Quick Look After Change

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

May. 25, 2006

Sulfur dioxide (42401) New York Parts per million (007)

SITE ID	P 0 C	REP ORG	CITY	COUNTY	ADDRESS	YEAR	метн	# OBS	1ST MAX 24-HR	2ND MAX 24-HR	#OBS >0.14	1ST MAX 3-HR	2ND MAX 3-HR	#OBS >0.5	1ST MAX 1-HR	2ND MAX 1-HR	ARITH MEAN CE	RT EDT
36-001-0012	1	0768	Albany	Albany	LOUDONVILLE	2004	009	8642	.031	.017	0	.057	.050	0	.072	.070	.0044	0
36-001-0012	1	0768	Albany	Albany	RESERVOIR LOUDONVILLE RESERVOIR	2005	009	8614	.023	.021	0	.027	.026	0	.028	.028	.0052	0
36-005-0083	1	0768	New York	Bronx		2004	009	8705	.036	.033	0	.070	.057	0	.073	.072	.0087	0
					SOUTHERN BLVD													
36-005-0083	1	0768	New York	Bronx	STREET AND	2005	009	8418	.042	.039	0	.061	.054	0	.070	.064	.0093	0
					SOUTHERN BLVD													
36-005-0110	1	0768	New York	Bronx	E 156TH ST BET DAWSON	2004	009	8608	.036	.035	0	.072	.061	0	.102	.079	.0103	0
36-005-0110	1	0768	New York	Bronx	AND KELLY E 156TH ST	2005	009	7817	.047	.042	0	.079	.067	0	.102	.094	.0109	0
					BET DAWSON AND KELLY													