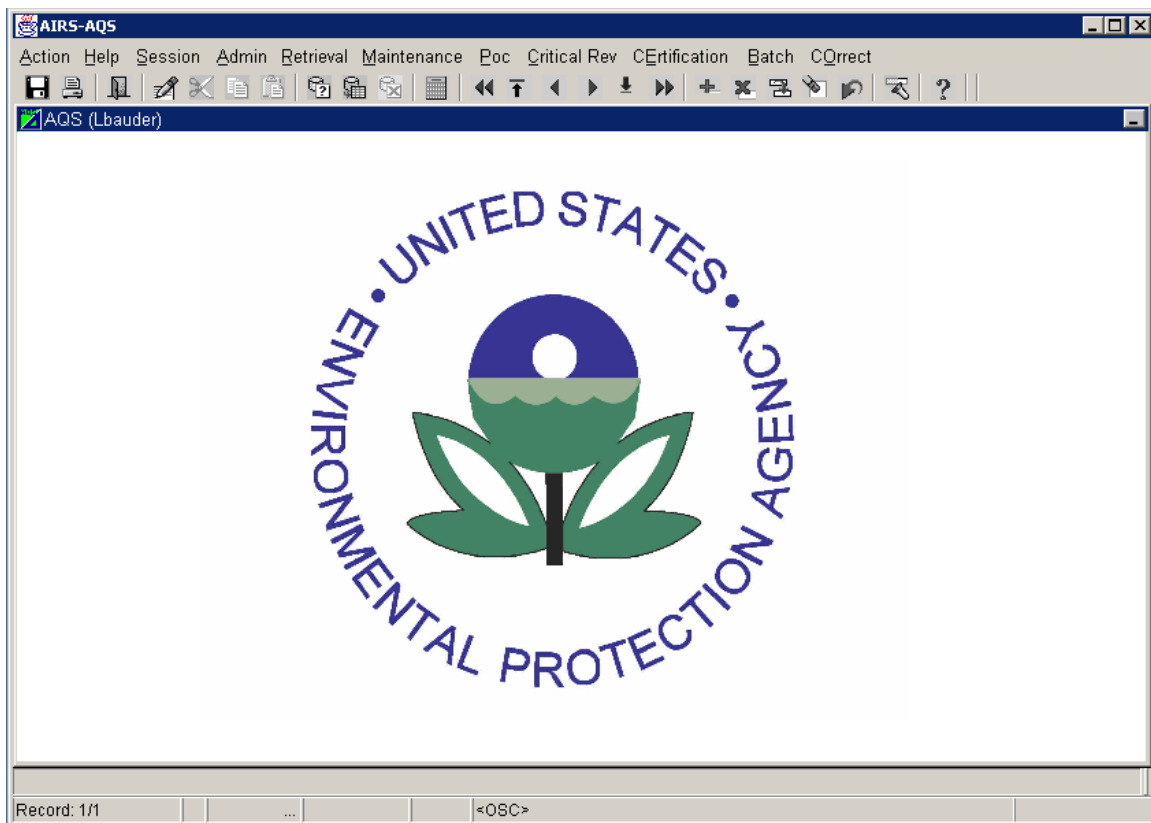


AQS Web New User Training



AQWeb* New User Training

*Air Quality System, web browser interface

5/30/06

Where to Get More Information

- AQS TTN website www.epa.gov/ttn/airs/airsaqs
- The AQS HELP DESK 1-866-411-4EPA
Password Resets and Application Errors
- The CDX Help Desk 1-888-890-1995
CDX Password Resets and CDX Support
- Regional Contact _____
- IMG Technical Support summers.jake@epa.gov
User registration, Assigning new screening
groups, Data questions, Issues, Policies and
procedures

Introduction: and Agenda

- Administrative Issues and Concerns
- Phone numbers and Training Room Contact Information
- Your AQS Training Staff
- Your name, where are you from, AQS experiences and what you hope to get from this AQS training
- The AQS “Parking Lot”
- Our Goal – introduce and get you familiar with the new AQS web application.

• Introduction	5
– Loading Data	13
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• Forms Tools	25
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– CDX	37
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– Report Samples	D

Day One

- Introduction:
 - Administrivia
 - Getting started
 - History
 - Components of the AQS System
 - The hierarchical model of AQS data
 - AQS Data types
 - Help
- Forms tools
 - Terminology
 - Editing data
 - Browse/Modify Site Monitor and Raw data
- Batch load
 - CDX
 - Load Process
 - Data format
 - Fixing errors
 - Correct forms

Day Two

- Batch load
 - Error Process review
- Maintain
 - Site/Monitor Add/Modify Data
 - Inserting/Deleting/Updating Raw Data
- Extract Reports
- Standard Reports
 - Create standard reports
 - Report Criteria Set
 - Report formats (rtf, pdf, etc)
- Wrap up and Class Review

Objectives

- Students will be able to
 - Load and manage data in the AQS system.
- That means...

The Student will...

Identify their...

Identify the components of ...

Follow steps required to ...

Get help ...

...

..

.

Introduction

- General Information
 - Components of the AQS System
 - The hierarchical model of AQS data
 - AQS Data types
 - Help
 - Administrivia
 - Getting started

Introduction: Identify their personal role and responsibility in moving data into the AQS database.

- What do you need from others?
- What do the people of this nation need from you?

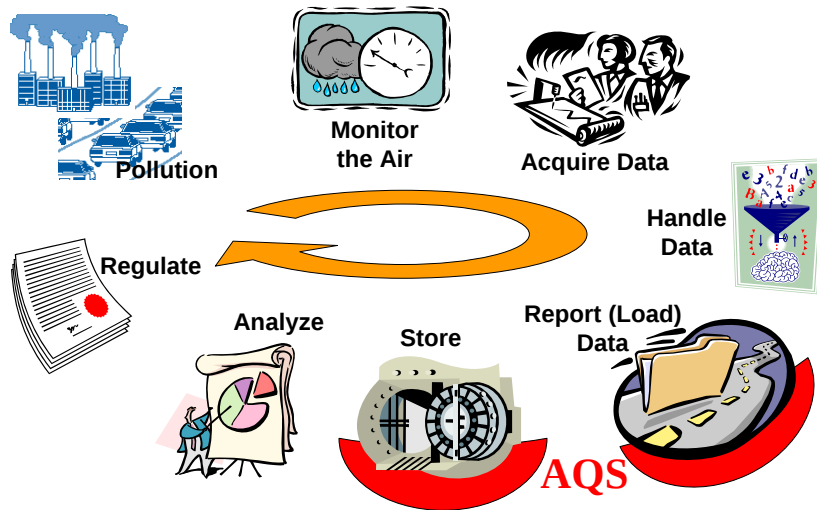
What do the people of this nation need from you?

- The Clean Air Act.
 - Sets federal standards yet delegates implementation role to states and tribal nations.
 - Current practices established by the Amendments of 1970 and 1990
 - Amendments???
 - Events and History of Legislation.
 - (<http://www.ametsoc.org/AMS/sloan/cleanair>)

Air Quality Standards

- For criteria pollutants, the Clean Air Act establishes levels of pollutants allowed in the air.
- For the toxics(HAP), EPA is gathering data to set baselines prior to limiting emissions.
- Monitoring provides the data for enforcement and evaluation
- AQS is the system used to store the data.
- The AQS data is a national resource.

What do you need from others?



Introduction: Identify the Components of the AQS System

- Components are:
 - The **data**,
 - The **tools** we use to manage the data and
 - The **people** that make it happen

Introduction: Terminology

- AQS data
- AQS application
- Server
- Database
- Data Table
- Batch
- Interactive

Introduction: Identify the components of the visible/conceptual hierarchical model of AQS data

- Summary data
- Composite data
- Raw data
- Monitor data
- Site data

		P & A
		Audit

Introduction: Other ways of looking at it

Sites

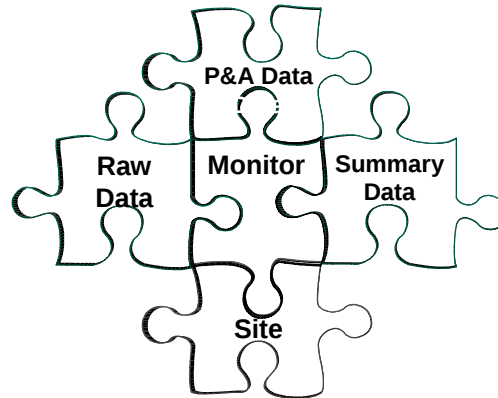
Monitors

Raw Data

Composite Data

Summary Data

P&A



Introduction: Recognize the identity key for data according to the hierarchical structure.

- Site Data
 - State County Site
 - 06 001 9987
- Monitor Data
 - State County Site Pollutant POC(instance)
 - 06 001 9987 44201 1
- Raw Data
 - State County Site Pollutant POC Date/Time
 - 06 001 9987 44201 1 1998010105:00

Introduction: Recognize the identity key for data according to the hierarchical structure.

- Site Data
 - State County Site
 - 06 001 9987
- Monitor Data
 - State County Site [Parameter](#) POC(instance)
 - 06 001 9987 44201 1
- Raw Data
 - State County Site [Parameter](#) POC Date/Time
 - 06 001 9987 44201 1 1998010105:00

Introduction: Precision and Accuracy Data

- Data about the precision and accuracy of air quality monitors.
- The Precision Data is “repeatability of measurement values under specified conditions” The precision data is the KNOWN versus the measured indicators. This precision information can be summarized quarterly, or created for groups of monitors.
- The Accuracy Data is a measure of “closeness to the truth”.

Introduction: Fascinating Factoids about AQS Data

Data Table

Site	18,000
Monitor	227,000
Raw data '02	82,000,000
Quarterly Summary '02	220,000
Annual Summary '02	65,000
Precision '02	161,000
Accuracy '02	16,000

Introduction: Fascinating Factoids about AQS Data

- Raw Data is:
 - The individual values of pollutant concentrations or meteorological conditions measured by the monitor.
 - A value may represent
 - an 8-24 hour average “daily”
 - the average hourly concentration. “hourly”
- Raw data is by far the largest amount of data in AQS.
 - Please be careful when querying raw data as this can be very time consuming and expensive. Usually, using Summary Data is equally effective and less costly.

Introduction: Fascinating Factoids about AQS Data

- To make the system faster in searches and help in internal management of data, the data is distributed across multiple “tables”.
 - MONITORING_SEASONS, MONITORS, MONITOR_AUDITS, MONITOR_COLLOCATIONS, MONITOR_COLLOCATION_HISTORY, MONITOR_HISTORY, MONITOR_OBJECTIVES, MONITOR_OBJECTIVE_HISTORY, MONITOR_OBJECTIVE_TYPES, MONITOR_PRECISION_SUMMARIES, MONITOR_PROTOCOLS, MONITOR_PROTOCOL_HISTORY, MONITOR_TANGENT_ROADS, MONITOR_TANGENT_ROAD_HISTORY, MONITOR_TYPES, MONITOR_TYPE_ASSIGNMENTS, MONITOR_TYPE_ASSIGN_HISTORY

Introduction: Identify the Components of the AQS System

- Components are:
 - The **data**,
 - The **tools** we use to manage the data and
 - The **people** that make it happen

Introduction: Identify the tools that are used to manage the AQS Data

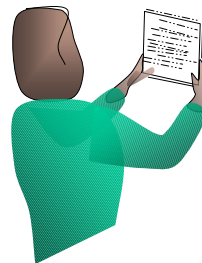
- AQS
 - The User can directly enter data into the AQS Database using the AQS web interface.
- CDX
 - The User can use Central Data eXchange to transfer data to the server for AQS to batch load.

Introduction: Identify steps required to load data and make it available at production status

- Gather Data
- Transfer Data
- Load data into Database
- Review Data
- Post data to Production

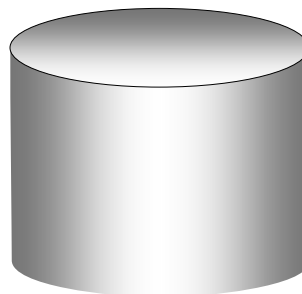
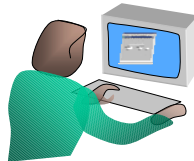
Introduction: Identify steps
required to interactively load data
and make it available at
production status

- **Gather Data**
- Load data into Database
- Review Data
- Post data to Production



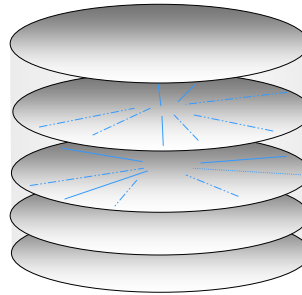
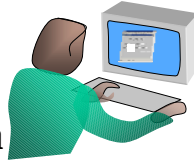
Introduction: Identify steps
required to interactively load data
and make it available at
production status

- Gather Data
- **Load Data**
- Review Data
- Post data to Production



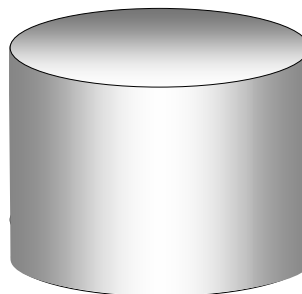
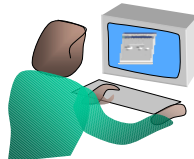
Introduction: Identify steps
required to interactively load data
and make it available at
production status

- Gather Data
- Load Data
- **Review Data**
- Post data to Production



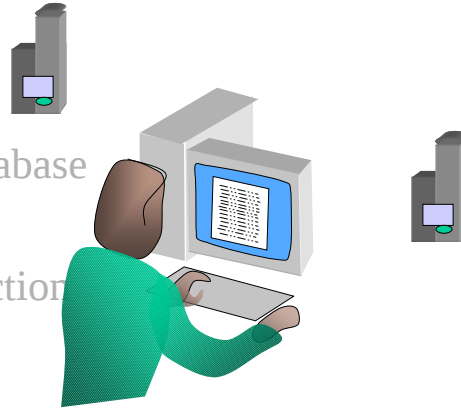
Introduction: Identify steps
required to interactively load data
and make it available at
production status

- Gather Data
- Load Data
- Review Data
- **Post data to Production**



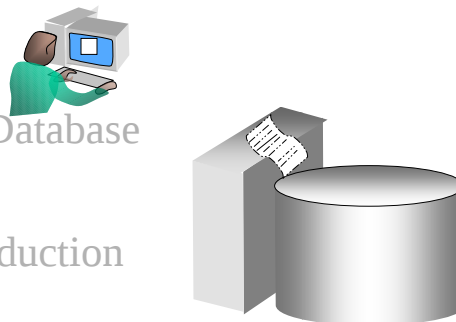
Introduction: Identify steps
required to bulk/batch load data
and make it available at
production status

- **Gather Data**
- Transfer Data
- Load data into Database
- Review Data
- Post data to Production



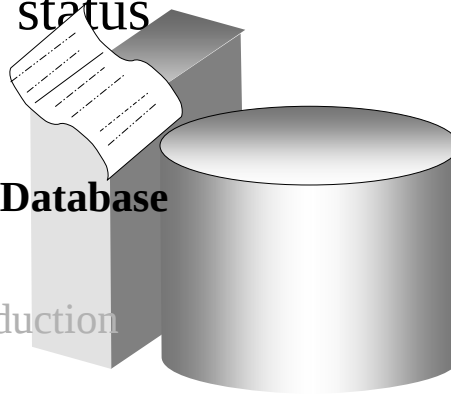
Introduction: Identify steps
required to batch load data and
make it available at production
status

- Gather Data
- **Transfer Data**
- Load data into Database
- Review Data
- Post data to Production



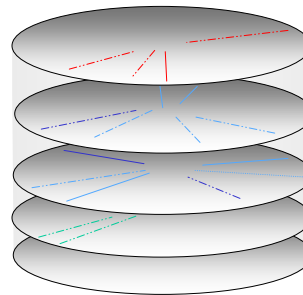
Introduction: Identify steps required to batch load data and make it available at production status

- Gather Data
- Transfer Data
- **Load data into Database**
- Review Data
- Post data to Production



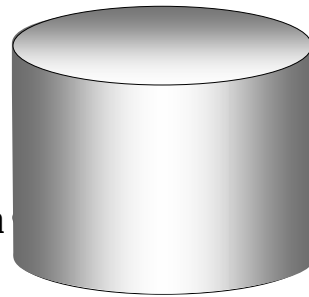
Introduction: Identify steps required to load data and make it available at production status

- Gather Data
- Transfer Data
- Load data into Database
- **Review Data**
- Post data to Production



Introduction: Identify steps required to load data and make it available at production status

- Gather Data
- Transfer Data
- Load data into Database
- Review Data
- **Post data to Production**



Introduction: Identify steps required to load data and make it available at production status

Interactive

- Gather Data
- Load Data in database
- Review Data
- Post data to Production

Batch

- Gather Data
- Transfer Data
- Load Data in database
- Review Data
- Post data to Production

Introduction: Identify tools required to load data and make it available at production status

- Gather Data
 - Load Data in database
 - Review Data
 - Post data to Production
- Gather Data
 - Transfer Data
 - Load Data in database
 - Review Data
 - Post data to Production

AQS Application

CDX

Introduction: Get registered

- <http://www.epa.gov/ttn/airs/airsaqs/registration.htm>

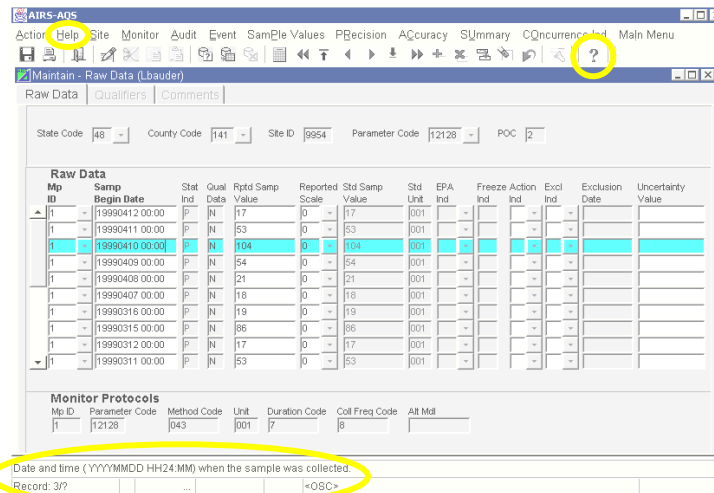
Introduction: Select their screening group

- Describe how screening groups effect their work
 - Screening groups define the “ownership” of monitors and associated data. Only members can modify data.
 - A screening group can be made of one or more users.
 - Monitors are assigned to a single screening group.
 - Users may be assigned to multiple screening groups.
 - Some actions, such as POST, apply to all data in the screening group, regardless of who loaded it.
 - “Delete by Screening Group” can be **extremely dangerous**.

Introduction: Get help

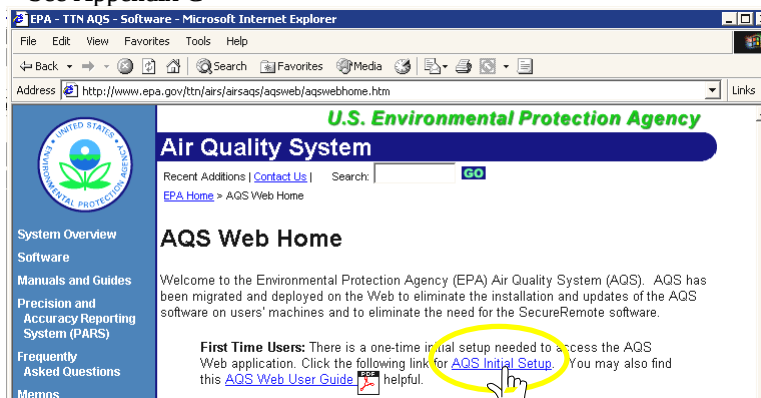
- AQS TTN website www.epa.gov/ttn/airs/airsaqs
- The AQS HELP DESK 1-866-411-4EPA
Password Resets and Application Errors
- The CDX Help Desk 1-888-890-1995
CDX Password Resets and CDX Support
- Regional Contact _____
- IMG Technical Support summers.jake@epa.gov
User registration, Assigning new screening groups, Data questions, Issues, Policies and procedures

Introduction: Help within the application



Introduction: Install AQS web

- Use Internet Explorer 5.5 or higher
- <http://www.epa.gov/ttn/airs/airsaqs/aqswab/aqswabhome.htm>
- See Appendix C



Introduction: Start AQS

- <http://www.epa.gov/ttn/airs/airsaqs/aqsweb/aqswebwarning.htm>

The screenshot shows a web browser window titled "Oracle Developer Forms Runtime - Web". The main content area displays the title "Introduction: Start AQS". Below the title, there is a link to the AQS web warning page. The interface is divided into two main sections: "Production:" and "Training:". Under "Production:", there is a "TSSMS id" field with a radio button labeled "OR" next to it, and a "AQSPROD" button. Under "Training:", there is an "Id" field and an "AQSTRNG" button. A "Login" dialog box is overlaid on the "Production:" section, containing fields for "Username:", "Password:", and "Database:", along with "Connect" and "Cancel" buttons.

Introduction: Passwords

- Need to be changed every 90 days!
- Must be at least 9 characters with least 1 number
- Cannot have your userid as the first characters
- Cannot be a "real" word more than three letters long
- CDX: Currently you can not use the same password ever.
- AQS: You can not use the same password for 5 password changes
- Call the Customer Call Center (1-866-411-4EPA) for a password reset, especially if you think your password has been compromised

Introduction: EPA Security

- Passwords will change every 90 days.
- Do not write down your password or store it on a computer.
- Do not build User IDs and passwords into automated procedures, define them by function keys, or program them into applications.
- Do not tell others your passwords.
- Report unauthorized attempts to use your password to an EPA security staff member.
- Passwords can be changed within the AQS application.

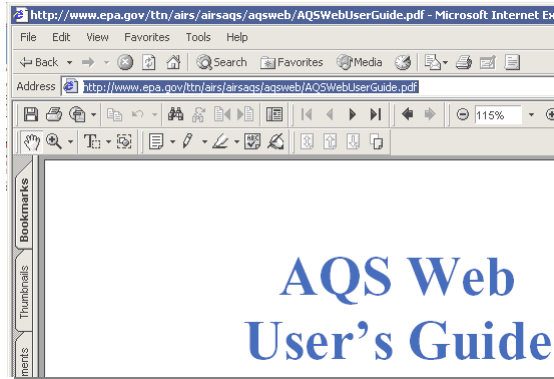
Introduction: Identify Smart working issues

- Don't query the nation
- OOPS!! Call to cancel any large bad reports/jobs
- Login screen messages and emails -read'em
- <http://www.epa.gov/ttn/airs/airsaqs/archived%20data/downloadaqsdats.htm> web site has a lot of useful raw data so don't go making your own large data extracts.

AQSwab Basic User Class

Review 1:

- Connect to <http://www.epa.gov/ttn/airs/airsaqs/aqswab/aqswabhome.htm> and find this publication



Review 2:

- From the AQ Web Home page
 1. Start AQS and log in to the AQSTRNG database using the user ID and password you have been given.
 2. Click on "Screening group Access" and click on "OK" when the popup appears. Notice where the screening group name appears
 3. For Fun:
 - Using only the Text menus at the top of the AQS window (see below) navigate to discover what forms you can see. Click on any text tabs or pulldown menus. DO NOT click on any of the picture icons at this time



Forms tools Overview

- Terminology
- Editing data
- Browse/Modify Site Monitor and Raw data

Forms tools: Define the special meaning of “selected” as it applies to AQS forms

- “Selected” means any data called up on a query whether you can see it or not. “Selected” does not mean Highlighted or Visible.

Raw Data

Tribal Code	State	County	Site	Parameter	Method	Date	Time	Sample Value	Sample V
96	909	9993	91201						

Qualifier Code:
Qualifier Desc:
Monitor Protocol:
Mp ID:
Parameter:
Method:
Record: 295295

Raw Data

Tribal Code	State	County	Site	Parameter	Method	Date	Time	Sample Value	Sample V
96	909	9993	94201						

Qualifier Code:
Qualifier Desc:
Monitor Protocol:
Mp ID:
Parameter:
Method:
Record: 295295

Raw Data

Tribal Code	State	County	Site	Parameter	Method	Date	Time	Sample Value	Sample V
96	909	9993	94201						

Qualifier Code:
Qualifier Desc:
Monitor Protocol:
Mp ID:
Parameter:
Method:
Record: 2397

Forms tools: Terminology

- Form/Page
- Pulldown Menus
- Icon Menu
- Tab
- Field
- LOV (Drop/List)
- Button
- Required Field

Forms tools: Terminology

AQSwab Basic User Class

AIRS-AQS

Action Help Site Monitor Audit Event Sample Values Precision Accuracy Blanks Summary Concurrence Ind Main Menu

Maintain - Raw Data (Lbauder) Tribal Mode

Raw Data Comments

Tribal Code: 780 State: 34 County: 001 Site: 9003 Parameter: 42401 POC: 3 Begin Date: End Date: Standard Units: 007

Mp ID	Date	Time	Stat Ind	Reported Sample Value	Standard Sample Value	EPA Action Ind	Exclusion Ind	Null Ind	Data Code	Description	Uncertainty Value
1	20031001	12:00	P	.004	.004						
1	20031001	11:00	P	.004	.004						
1	20031001	10:00	P	.006	.006						
1	20031001	10:00	R	.006			U				
1	20031001	09:00	P	.004	.004						
1	20031001	08:00	P	.003	.003						
1	20031001	07:00	P	.003	.003						
1	20031001	06:00	P	.003	.003						
1	20031001	05:00	P	.002	.002						
1	20031001	04:00	P	.003	.003						

Qualifier Code: Qualifier Desc: Qualifier Type:

Monitor Protocol: Mp ID: 1 Parameter: 42401 Method: 009 Unit: 007 Duration: 1 Coll Frequency: Alt Mdl:

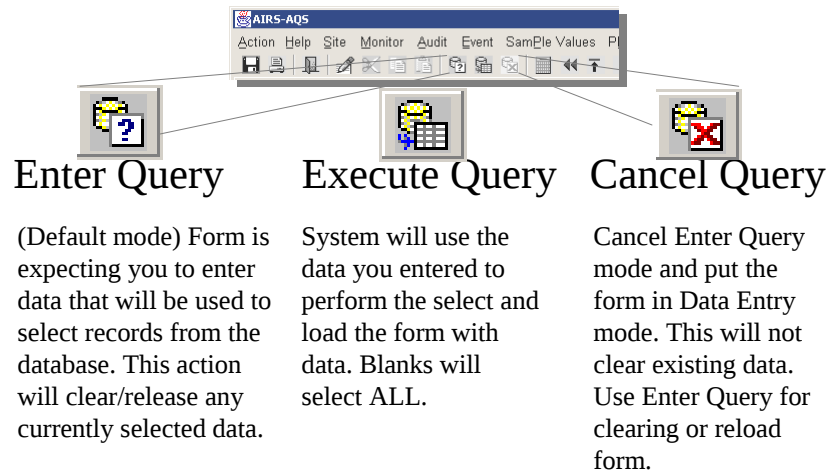
Enter a State FIPS code that identifies one of the 50 states or other countries.

Record: 2/? ... List of Valu... <OSC>

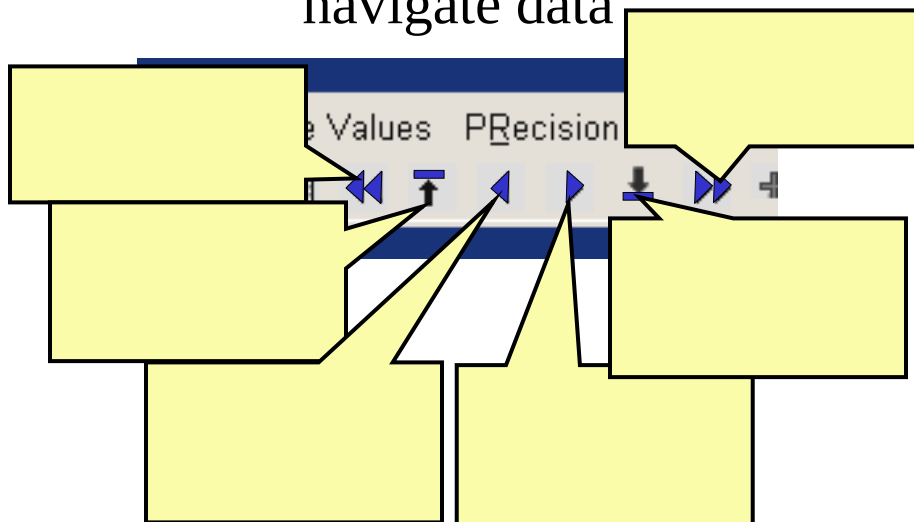
Forms tools: Terminology

- Query Mode
- Data Entry Mode
- Record
- Transaction
 - Commit/Save
 - Rollback/Abandon
- Lock

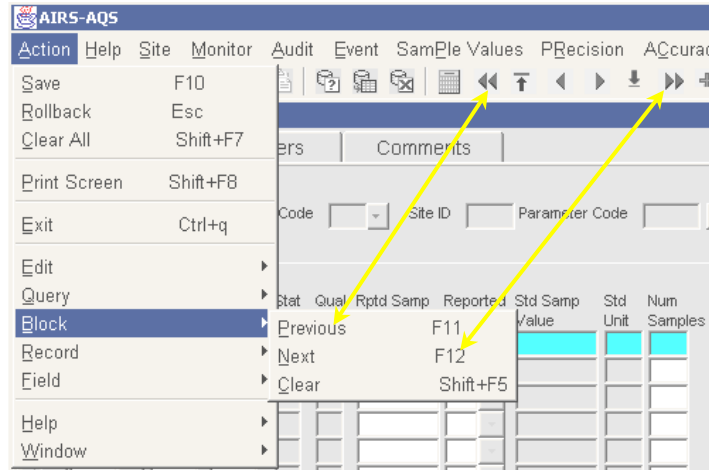
Forms tools: Use query tools to call up data



Forms tools: Use arrow menu to navigate data



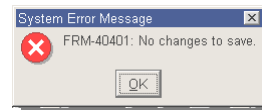
Forms tools: Use the Action menu or keyboard to navigate data



See Appendix A

Forms tools: SAVE!!!!

- Any data modifications made are temporary until a SAVE is done.
- The only confirmation you receive is in the lower left corner of the AQS window
- If you save with no changes made...



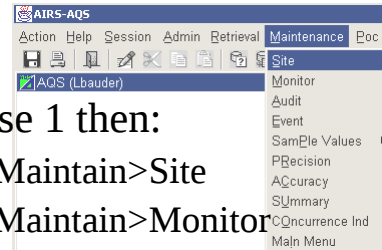
Form tools: Save

- You cannot roll back from a save

Instructor exercise 1

- Modify Security profile email address and destination file
- Demonstrate browsing in Maintain Monitor and Maintain Raw data.

Student Exercise 1 & 2



- When you complete exercise 1 then:
 - Browse existing data using Maintain>Site
 - Browse existing data using Maintain>Monitor
- Remember:
 - You must be in Read Only screening group to see data you do not own.
 - ALWAYS enter at least a state ID before you Execute Query in Maintain Monitor or Maintain Raw data.

Forms tools: Navigation differences between single and multiple record forms

- Instructor Demonstration
- Browse existing Raw Data using Maintain Raw Data form.
 - Make sure you enter a state and county value before Execute Query
 - Navigate
 - between monitors and
 - scroll raw data for a monitor.

Use forms for editing data

- Modify existing data
- Create new data records using Maintain forms as well as Correct forms

Correct

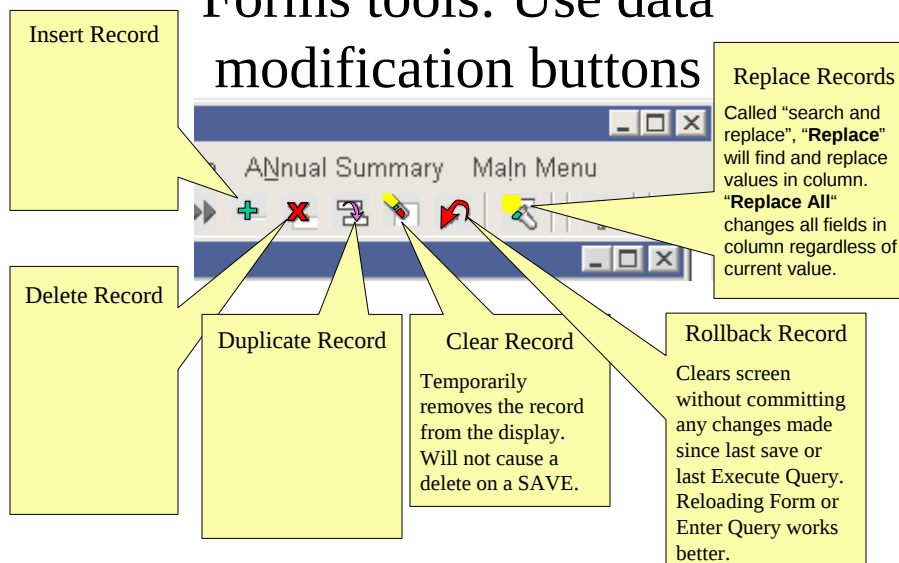
- **cor·rect** k&-'rekt *
 - *transitive verb* -to alter or adjust so as to bring to some standard or required condition
 - *adjective* -conforming to an approved or conventional standard
- **Cor·rect**
 - *adjective* -descriptive identifier for one of several AQS forms normally used to bring batch data into conformance with AQS data entry conditions

*<http://www.m-w.com/cgi-bin/dictionary>

Use forms for editing data

- Modify existing data
- Create new data records using Maintain forms as well as Correct forms
 - Sites and monitors are often created using the Maintain forms.
 - Raw, composite and P&A data are usually entered using batch files due to the volume and origin of the data.

Forms tools: Use data modification buttons



Forms tools: SAVE!!!!



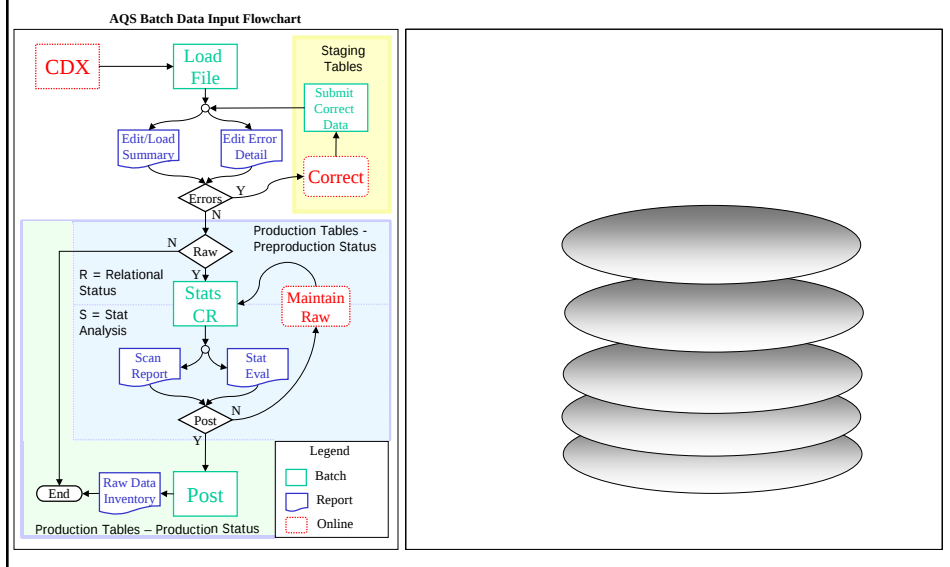
Modify existing data Site
Monitor and Raw

- Instructor Demo

Batch Load

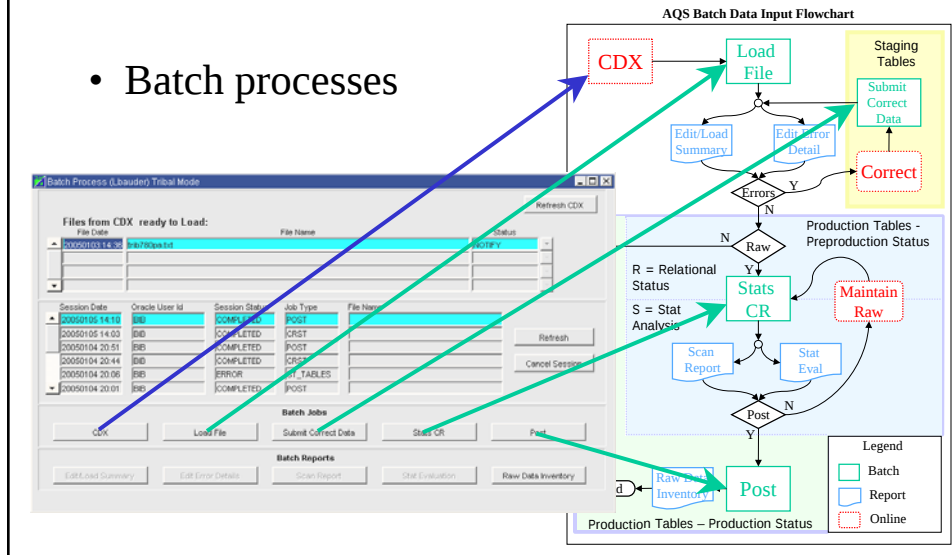
- CDX
- Load Process
- Data format
- What can go wrong
- Error Process
- Correct Forms

Batch load overview



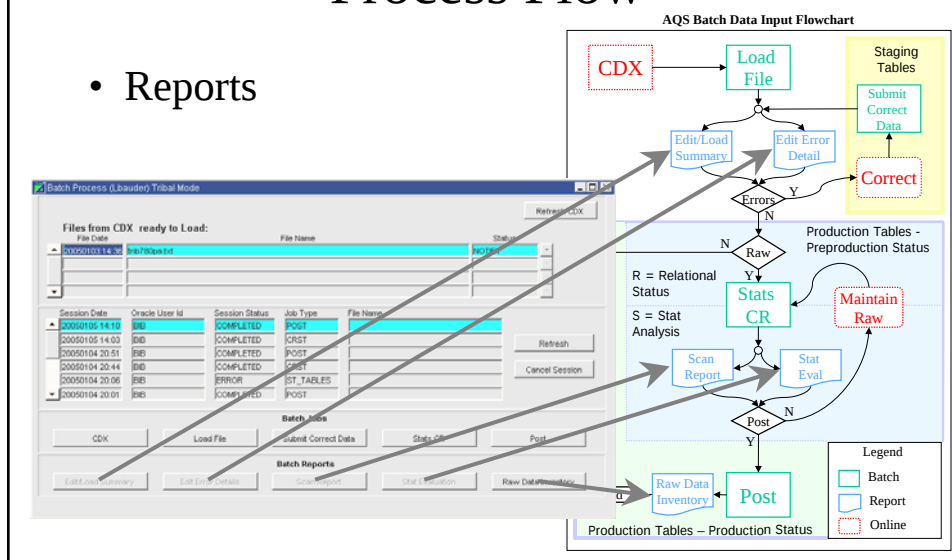
Batch load: Overview Form and Process Flow

- Batch processes



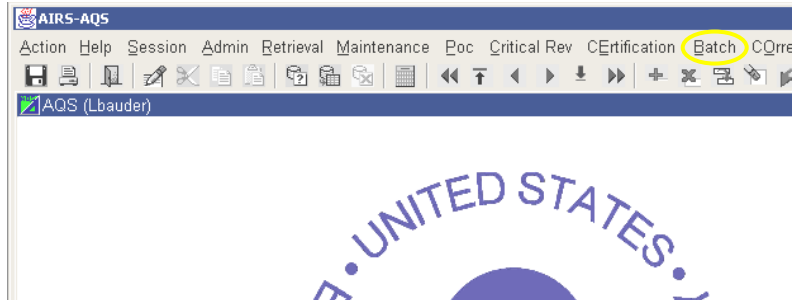
Batch load: Overview Form and Process Flow

- Reports



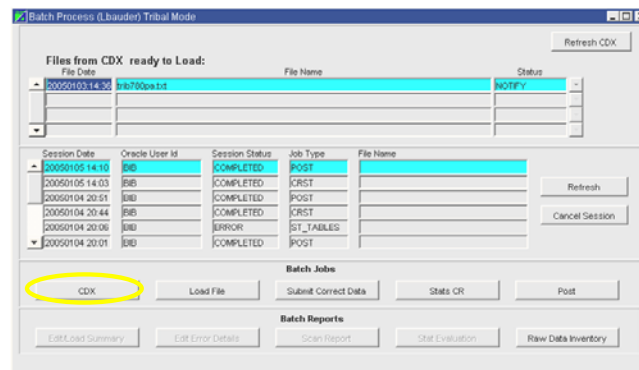
Batch load: Use CDX to transfer data from their PC to the server

1. Start AQS, Login and select Screening Group.
2. Choose Batch Menu option



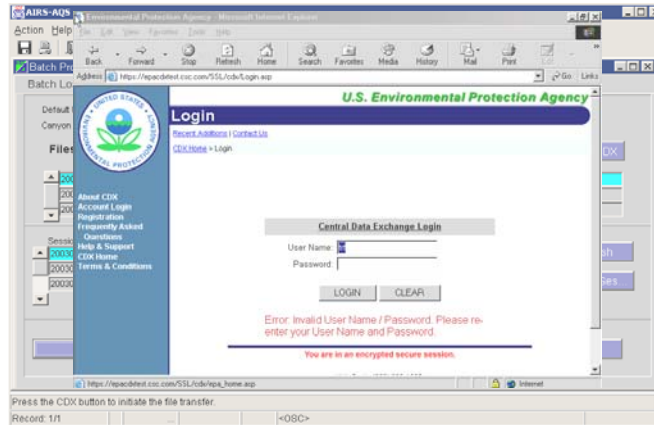
Batch load: Use CDX to transfer data from their PC to the server

3. Click the CDX button on the batch process Screen (CDX is a separate tool from AQS)



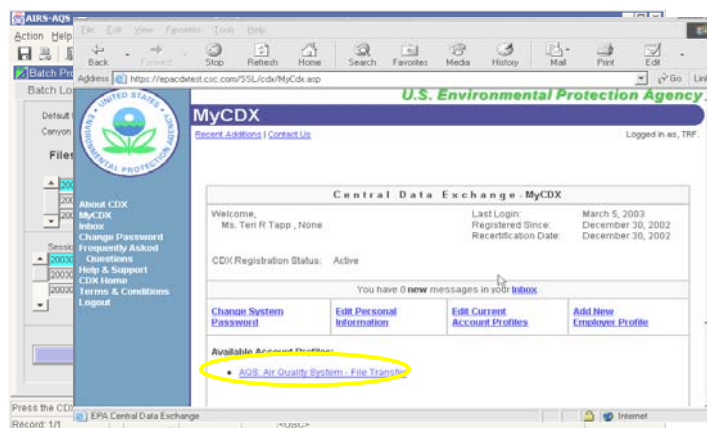
Batch load: Use CDX to transfer data from their PC to the server

4. Enter user name, CDX password and Login



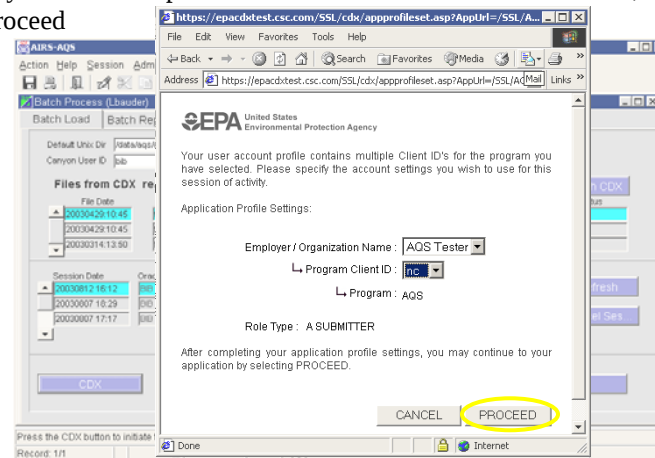
Batch load: Use CDX to transfer data from their PC to the server

5. Select AQS File Transfer



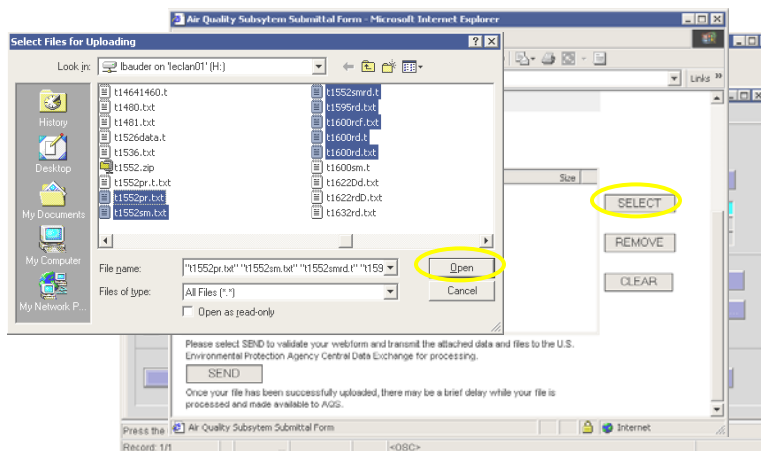
Batch load: Use CDX to transfer data from their PC to the server

5a. If you have multiple CDX roles select the SUBMITTER role, then Proceed



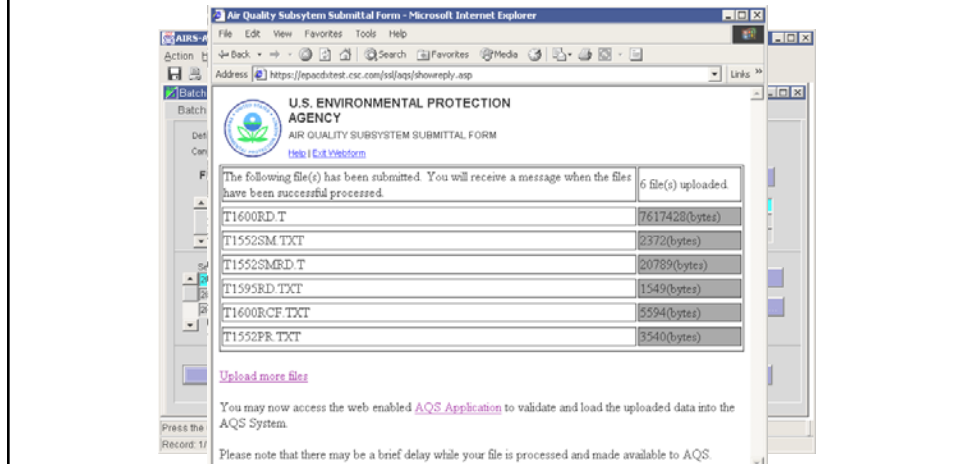
Batch load: Use CDX to transfer data from their PC to the server

6. Click on Select and Specify files to collect from your computer.



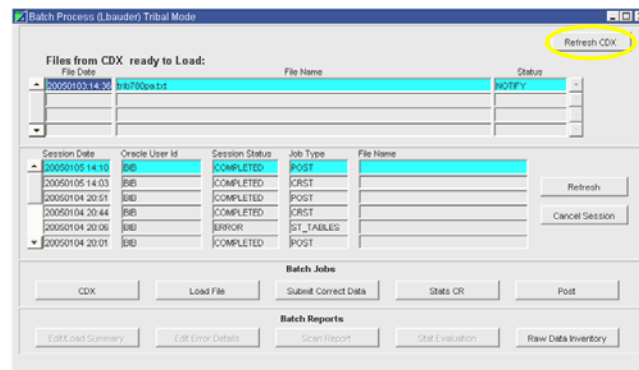
Batch load: Use CDX to transfer data from their PC to the server

7. Click on Send to deliver all files to AQS. Close the browser window.



Batch load: Use CDX to transfer data from their PC to the server

8. After receiving email notice of delivery, click on Refresh CDX.



Batch load: Use batch load to install data

AQS Batch Data Input Flowchart

1. Select file (highlight) to load in CDX block
2. Click Load File
3. Wait for email or Refresh in session block for ERROR/COMPLETE status.

Batch load: Use batch load to install data

AQS Batch Data Input Flowchart

Possible Results of Load

- COMPLETED load
- Load with ERROR
- ERROR never started

Batch load: sample data formats

- Full format definitions can be found in the AQS Data Coding document at: <http://www.epa.gov/ttn/airs/airsaqs/manuals/>
- **Site** (This is all one line)
 - AA|I|23|019|9901|44.799722|-68.810278|||026|NAD84|1|1|45|0635|AIRPORT OPS
GODFREY BLVD|00000|0000|109|COMMERCIAL|SUBURBAN|19870101|
|||||004|MEAN SEA-LEVEL|1
 - AA|I|TT|780|9901|44.799722|-68.810278|||...
- **Tangent Road**
 - AB|I|23|005|9901|1|MARGINAL WAY|MAJ ST OR HY|16720|1995|NW|
- **Monitor Basic** (This is all one line)
 - MA|I|23|019|9901|88101|1|01|MOBILE|NEIGHBORHOOD||TOP OF BUILDING|1|3
|1|Y|2|||2399|||
- **Monitor Agency**
 - MD|I|23|003|9901|88101|1|REPORTING|0635|19971001|
 - MD|I|23|005|9901|88101|1|COLLECTING|0635||
- **Raw Data**
 - RD|I|23|019|9901|88101|1|7|105|118|19990316|00:00|AG|3|
 - RD|I|23|019|9901|88101|1|7|105|118|19990319|00:00|5.9|3|

Batch load: data format

- Full format definitions can be found at: http://www.epa.gov/ttn/airs/airsaqs/manuals/aqstrans_format.pdf
 - **Monitor Basic** (This is all one line)
 - MA|I|23|019|9901|88101|1|01|MOBILE|NEIGHBORHOOD||TOP OF BUILDING|1|3
|1|Y|2|||2399|||
 - **Monitor Agency**
 - MD|I|23|003|9901|88101|1|REPORTING|0635|19971001|
 - MD|I|23|005|9901|88101|1|COLLECTING|0635||
 - **Raw Data**
 - RD|I|TT|780|9901|88101|1|7|105|118|19990316|00:00|AG|3|
 - RD|I|23|019|9901|88101|1|7|105|118|19990319|00:00|5.9|3|
-

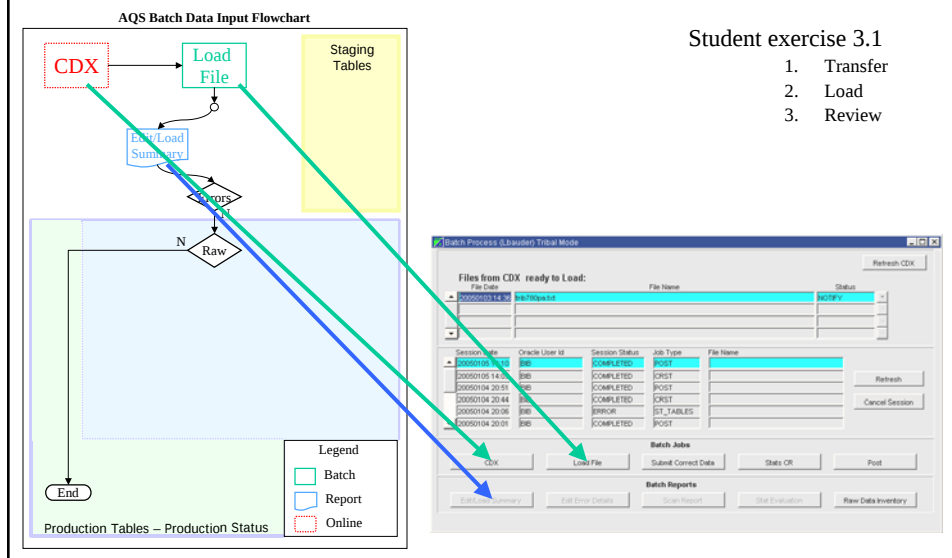
Batch load: old data format

- Some old data formats are still accepted for batch input. Data sometimes comes from old reporting systems and these formats are maintained for compatibility.
- The old format is based on the 80 column IBM punch card.
- The first digit is the record type followed by the site/monitor.
- Note the location of the "I" field.

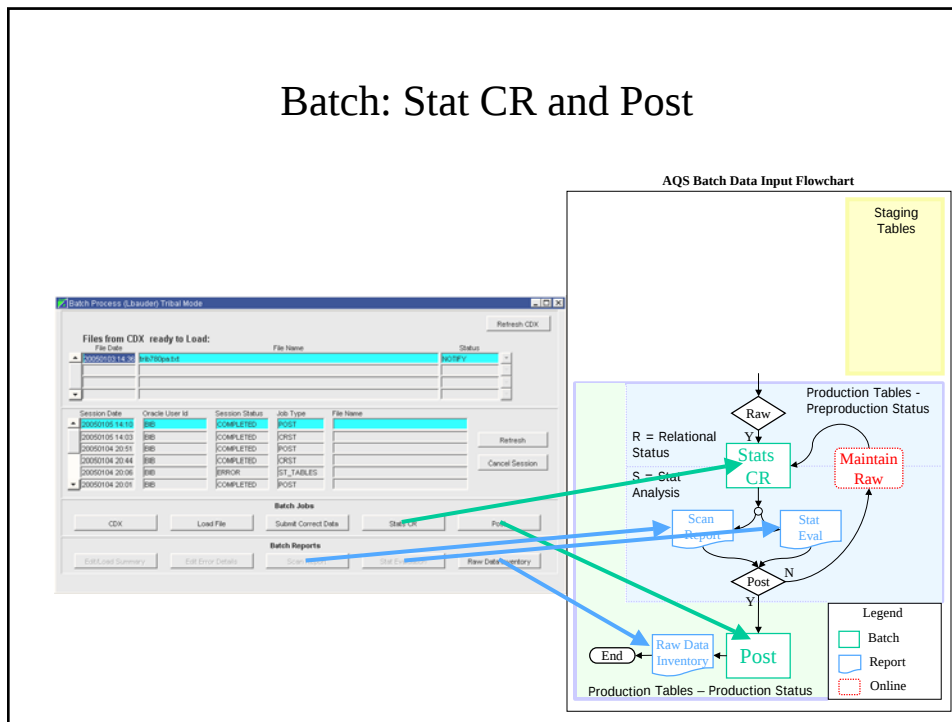
```
142003999744201110080879802010000001 002 13 9988999789997899978999789
2420039997426021700708498010100 4 05
```

I
I

Batch load: Use batch load to install site/monitor data



Batch: Stat CR and Post



Stat CR

- **Stat CR = Statistical Critical Review.**
 - Evaluation of data to discover possible but unlikely data. Results are available in the Scan and Stat Evaluation Reports.
- **Scan Report**
 - this report provides information on the maximum values and validity flags for raw data
- **Stat Evaluation Report**
 - this report compares the pre-production data to the existing production data using the Shewhart test, Patterns test and Gap test.
- Additional information can be found in:
 - <http://www.epa.gov/ttn/airs/aqs/softw/AQSUserGuide.pdf>

Critical Reviews

- Once data is posted it is accessible by the public. The Stat CR and Post activities help to flag data anomalies prior to release.
- Real errors that fit with the rest of the data will not be captured.
- Anomalies found are not necessarily errors.
- Stat CR and Post must always be run whenever raw data is added to or changed in the database.

Batch: Stat CR

- Simply push the button and wait for it to complete. (email/refresh for notification)

Batch Process (Lbauder) Tribal Mode

Files from CDX ready to Load:

File Date	File Name	Status
20050103 14:43	trib70ps.txt	NOTIFY

Session Date Oracle User Id Session Status Job Type File Name

20050105 14:10	BIB	COMPLETED	POST	
20050105 14:03	BIB	COMPLETED	CRST	
20050104 20:51	BIB	COMPLETED	POST	
20050104 20:44	BIB	COMPLETED	CRST	
20050104 20:06	BIB	ERROR	ST_TABLES	
20050104 20:01	BIB	COMPLETED	POST	

Refresh

Batch Jobs

CDX Load File Submit Correct Data Stat CR Post

Batch Reports

Edit Load Summary Edit Error Details Scan Report Stat Evaluation Raw Data Inventory

Batch: Statistical Evaluation Report



United States
Environmental Protection Agency

Air Quality Subsystem
STATISTICAL EVALUATION REPORT

Screening Group Name LBAUDER			
Monitor Id	Date/Time	Error	Above Gap Cn
48-141-9954-12128-2	Apr. 01, 1999 :00	Fails Shewhart test.	
48-141-9954-12128-2	Apr. 06, 1999 :00	Value exceeds relative maximum level defined for parameter.	

- Only records that fail a test are reported

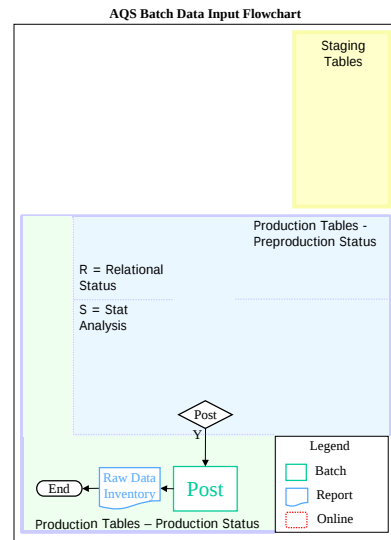
Batch: Scan Report

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY													
AIR QUALITY SYSTEM													
SCAN REPORT (AMP120)													
Monitor Id	Unit	D	Year	Q	Hist Max	Date-Time	1st Max	Date-Time	Loc	2nd Max	Date-Time	Loc	V 3rd Max
15-001-9991-42401-1	007	1	2003	2			.839	04/07:05		.724	04/02:16		
19-153-9955-16822-1	078	7	2002	1			.03	01/20:00		.03	02/01:00		
19-153-9955-16822-1	078	7	2002	2			.03	04/02:00		.03	04/14:00		
19-153-9955-16822-1	078	7	2002	3			.03	07/07:00		.03	07/19:00		
19-153-9955-16822-1	078	7	2002	4			.03	10/23:00		.03	11/04:00		
19-153-9955-16822-3	078	7	2002	2			.03	06/01:00		.03	06/13:00		
19-153-9955-16822-3	078	7	2002	3			.03	07/07:00		.03	07/19:00		
19-153-9955-16822-4	078	7	2002	1			.03	01/20:00		.03	02/01:00		
19-153-9955-16822-4	078	7	2002	2			.03	04/02:00		.03	04/14:00		
19-153-9955-16822-4	078	7	2002	3			.03	07/07:00		.03	07/19:00		
19-153-9955-16822-4	078	7	2002	4			.03	10/23:00		.03	11/04:00		
48-141-9954-12128-2	001	7	1999	2	104	1999/01/10:00	* 200	04/06:00		104	04/10:00	D	54

- Report flags “sports” in the data with *

Batch: Post

- Post is the final process in the batch update process
- One last chance to verify that the data is ready for the world
- Raw Data Inventory Report is available after the Post batch job runs.



Batch: Post

Batch Process (Lbauder) Tribal Mode

Files from CDX ready to Load:

File Date	File Name	Status
20050103 14:38	trb780pa.txt	NOTIFY

Session Date Oracle User Id Session Status Job Type File Name

20050105 14:10	BIB	COMPLETED	POST	
20050105 14:03	BIB	COMPLETED	CRST	
20050104 20:51	BIB	COMPLETED	POST	
20050104 20:44	BIB	COMPLETED	CRST	
20050104 20:06	BIB	ERROR	ST_TABLES	
20050104 20:01	BIB	COMPLETED	POST	

Buttons: Refresh CDX, Refresh, Cancel Session

Batch Jobs

CDX Load File Submit Correct Data Stats CR **Post**

Batch Reports

Edit/Load Summary Edit Error Details Scan Report Stat Evaluation Raw Data Inventory

- The Post button Takes you to a new form for data review and does not run the post process.

Batch: Post form

Monitor ID	Year - Quarter	CR Exists	Stats Exist
TT-780-9003-42401-3	2003-3	Y	Y
TT-780-9003-42401-3	2003-4	Y	Y

Action	Std Samp	Samp	Comp Samp	Comparison	Error
Ind	Value	Begin Date	Value	Date	Desc
0	1	20030716 05:00	148	20030810 09:00	Value >= 3-Yr Historical Max.

Total Gap	Value Above Gap	Num Below Gap	Error Date	Statistical Error
89	1	102	20030701 00:00	Fails Gap test.
			20030716 00:00	Fails Dixon Ratio test.

- The post form contains the same information as found in the Scan Report and Statistical Evaluation Report

Batch: Post form Raw Data tab

Samp Begin Date	Std Sample	Rptd Sample	Null Data	Action Details	Method	Unit	Duration	Coll Freq	Composite Type	Alt Mdl
	Value	Value	Code	Unit	Ind	Exist	Code	Code		
20031001 00:00	.3	.3		007	0	Y	009	007	1	
20031001 07:00	.3	.3		007	0		009	007	1	

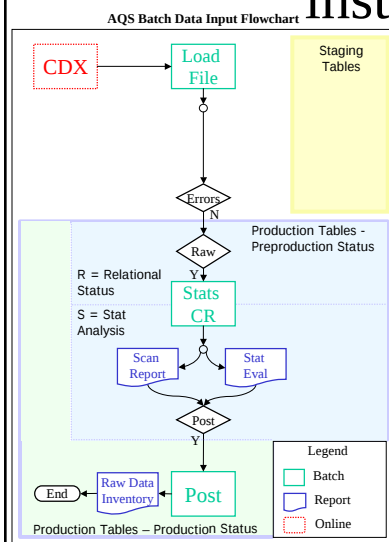
Qualifier Code	Qualifier Type	Qualifier Desc
P	EX	ROOFING OPERATIONS

- The Raw Data display allows the verification that incidents that “qualify” (explain) the unusual value are entered before the data is posted to the public. Qualifier information cannot be entered in this form

Batch: Raw Data Inventory Report

 United States Environmental Protection Agency		Air Quality Subsystem Raw Data Inventory Report				Aug 28, 2003	
Screening Group:		LBAUDER					
Monitor Id	Duration	Year-Mon	Inserts	Updates	Deletes		
19-153-9955-16822-1	24 HOURS	2002-1	1	0	0		
19-153-9955-16822-1	24 HOURS	2002-2	3	0	0		
19-153-9955-16822-1	24 HOURS	2002-3	2	0	0		
19-153-9955-16822-1	24 HOURS	2002-4	3	0	0		
19-153-9955-16822-1	24 HOURS	2002-5	2	0	0		
19-153-9955-16822-1	24 HOURS	2002-6	2	0	0		
19-153-9955-16822-1	24 HOURS	2002-7	3	0	0		
19-153-9955-16822-1	24 HOURS	2002-8	1	0	0		
19-153-9955-16822-1	24 HOURS	2002-9	3	0	0		
19-153-9955-16822-1	24 HOURS	2002-10	2	0	0		
19-153-9955-16822-1	24 HOURS	2002-11	3	0	0		
19-153-9955-16822-1	24 HOURS	2002-12	2	0	0		
19-153-9955-16822-3	24 HOURS	2002-6	2	0	0		
19-153-9955-16822-3	24 HOURS	2002-7	3	0	0		
19-153-9955-16822-4	24 HOURS	2002-1	1	0	0		
19-153-9955-16822-4	24 HOURS	2002-2	3	0	0		

Batch load: Use batch load to install raw data



- Student Exercise 3.2

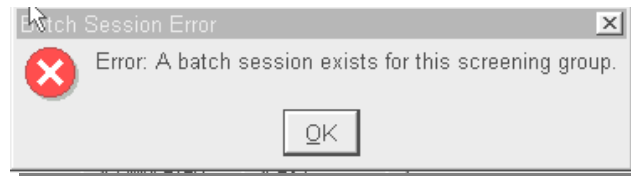
Batch load: What can go wrong

- Pre-Load errors
 - Login failure
 - Failed on file name
 - Invalid action indicator
 - Pre-validate failed
- Load Errors
 - Monitor or Site not in database
 - Screening group mismatch

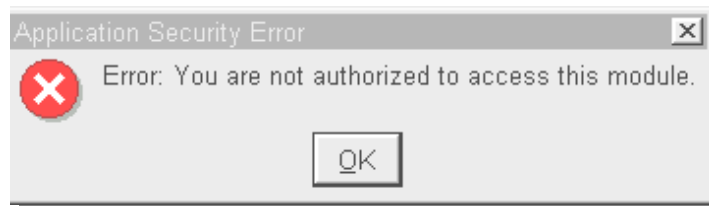
Batch load: How do I know What happened?

- Look for messages on your screen
- Wait for an email from AQS
- Look at the Edit Error Details Report
- Use Edit/Load Summary and Correct forms

Screen messages



Screen messages



Email message

```
| Input:                                     WARNING NOTICE
Input: This is a United States Environmental Protection Agency (EPA) Computer
Input: system, which may be accessed and used for authorized use only.
Input: Unauthorized access or use of this computer system may subject violators
Input: to criminal, civil, and/or administrative action. All information on
Input: this computer system may be monitored, recorded, read, copied,
Input: and disclosed by and to authorized personnel for official purposes,
Input: including law enforcement. Access or use of this computer system by
Input: any person, whether authorized or unauthorized, constitutes consent to these
terms.
Input: Compaq Tru64 UNIX V5.1 (Rev. 732) (canyon) (pts/1)
Input: login:
Sending Unix ID to host.
Input: Password:
Sending      Unix Password to host.
Input:
Input: Login incorrect
Input: Wait for login retry ...
Input: Login incorrect
Input: login:
Login Failure! Check user-id and password.

Unable to submit batch reporting job!
```

- Login failure

Email messages

- Monitor ID not in database

```
Error on line 1: Monitor ID (State, County, Site, Parameter, POC) not in database
Input Transaction 1: RP|I|01|073|1006|88101|1|1|7|105|116|20010110|008.4|116|008.4|||
Error on line 2: Monitor ID (State, County, Site, Parameter, POC) not in database
Input Transaction 2: RP|I|01|073|1006|88101|1|1|7|105|116|20010122|013.2|116|010.7|||
```

- Invalid action indicator

```
ERROR: AIRS_BATCH
On Line 1      Invalid Action Indicator
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
Input Transaction: RD|m|06|045|0009|44201|1|1|008|014|19980425|09|0016.|||||||
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

Batch Load: Errors (5/03 – 4/04)

- 260131 Attempted to insert a value for an existing date and time.
- 142289 Invalid Protocol
- 116586 Monitor ID (State, County, Site, Parameter, POC) not in database
- 98590 Screening group of user does not equal screening group of Monitor.
- 34406 No Required Collection Frequency defined for this monitor-date.
- 12774 A pre-production Record already exists for the Monitor - Date-Time
- 7294 Monitor inactive for this date.
- 3768 Standard value falls outside absolute value range for the parameter.
- 2265 No active reporting organization for criteria pollutant data.
- 1222 Sample duration overlaps immediately preceding or succeeding sample value
- 1004 Invalid combination of Sample Value, Uncertainty, and Null Data Code
- 692 Attempted to insert duplicate record.ORA-00001: unique constraint (XXXXXXXX.XX_XXX) violated
- 378 Unable to find Raw Data record for Precision Record
- 243 Invalid Unit Code
- 243 Unable to retrieve Conversion_Factor
- 144 Invalid Precision Protocol
- 96 Date cannot be within an existing date range.
- 94 Value on Precision Transaction does not match Raw Data value in database.
- 81 Unable to insert/update precision data record into database

Batch Load: Errors (5/03 – 4/04)

- 66 Continuous PM data must be reported in Flow units or Duration X.
- 55 The sample date is not within an available year.
- 53 Protocol ID not found
- 52 Status for XXXXX_XXXX is inactive.
- 51 Invalid Raw Data Qualifier
- 48 Agency Role Begin Date must fall within a valid sample period
- 48 Monitor_type_begin_date not within valid sample period.
- 48 More than one RCF defined for this monitor-date.
- 41 Production record doesn't exist to update or delete
- 32 Invalid Method Code
- 29 Monitor has no defined reporting organization for this time
- 20 All monitors must be closed to terminate a site. Open monitor
- 23 Unable to Insert/Update Accuracy Record in database
- 14 This monitor was not being sampled during the defined Accur
- 12 The Accuracy Date must be between Jan 1, 1980 and the current date
- 8 Maximum Percent Difference defined for the parameter was exceeded
- 6 The null data qualifier code or the reported sample value must exist.

Batch Load Error: Attempted to insert a value for an existing date and time.

- Possible Cause
 - Duplicate Load
 - Wrong site/monitor
 - Wrong date/time
- Possible Fix

Batch Load Error: Invalid Protocol

- Possible Cause
 - Wrong
 - Method
 - Unit
 - Duration
 - Period
- Possible Fix

Batch Load Error: Monitor ID (State, County, Site, Parameter, POC) not in database

- Possible Cause
 - Site/Monitor not at “P” status
 - Site/Monitor not in AQS
- Possible Fix

Batch Load Error: Screening group of user does not equal screening group of Monitor.

- Possible Cause
 - Wrong screening group
 - Wrong monitor
- Possible Fix

Batch Load Error: No Required
Collection Frequency defined for this monitor-date.

- Possible Cause
 - Missing frequency definition in monitor
 - Wrong site/monitor
 - Wrong date/time
- Possible Fix

Batch Load Error: A pre-production
Record already exists for the Monitor - Date-Time

- Possible Cause
 - Duplicate Load
 - Wrong site/monitor
 - Wrong date/time
- Possible Fix

Batch Load Error: Monitor inactive for this date.

- Possible Cause
 - Wrong site/monitor
 - Wrong date/time
 - Missing monitor data
- Possible Fix

Batch Load Error: Standard value falls outside absolute value range for the parameter.

- Possible Cause
 - Transcription error
 - Wrong parameter
 - Wrong reported scale
 - Wrong protocol
 - Data collection error
- Possible Fix

Batch Load Error: No active reporting organization for criteria pollutant data.

- Possible Cause
 - Missing monitor data
 - Wrong site/monitor
 - Wrong date/time
- Possible Fix

Batch Load Error: Sample duration overlaps immediately preceding or succeeding sample value

- Possible Cause
 - Duplicate Load
 - Wrong site/monitor
 - Wrong date/time
 - Transcription error
 - Data collection error
- Possible Fix

Batch Load Error: Invalid combination of
Sample Value, Uncertainty, and Null Data Code

- Possible Cause
 - Wrong Event/QA/Null code
 - Transcription error
- Possible Fix

Batch Load Error: Attempted to insert
duplicate record.ORA-00001: unique constraint
(XXXXXXXXXX.XX_XXXX) violated

- Possible Cause
 - Duplicate Load
 - Wrong site/monitor
 - Wrong date/time
- Possible Fix

Batch Load Error: Unable to find Raw
Data record for Precision Record

- Possible Cause
 - Wrong site/monitor
 - Wrong date/time
 - Raw data not loaded
 - Raw data not posted
- Possible Fix

Batch Load Error: Invalid Unit Code

- Possible Cause
 - Wrong unit code
 - Wrong method/duration
 - Wrong site/monitor
 - Wrong date/time
- Possible Fix

Batch Load Error: Invalid Precision
Protocol

- Possible Cause
 - Wrong method
 - Wrong unit
 - Wrong duration
- Possible Fix

Batch Load Error: Date cannot be within
an existing date range.

- Possible Cause
 - Duplicate Load
 - Wrong site/monitor
 - Wrong date/time
- Possible Fix

Batch Load Error: Value on Precision
Transaction does not match Raw Data value in
database.

- Possible Cause
 - Duplicate Load
 - Wrong site/monitor
 - Wrong date/time
 - Raw data not loaded
 - Raw data not posted
 - Transcription error
 - Data transposition
- Possible Fix

Batch Load Error: Unable to
insert/update precision data record into database

- Possible Cause
 - No P&A role
 - Wrong site/monitor
 - Wrong date/time
- Possible Fix

Batch Load Error: Continuous PM data must be reported in Flow units or Duration X.

- Possible Cause
 - Transcription error
 - Wrong site/monitor
 - Wrong date/time
- Possible Fix

Batch Load Error: The sample date is not within an available year.

- Possible Cause
 - **OLD DATA**
 - Wrong Date
- Possible Fix

Batch Load Error: Protocol ID not found

- Possible Cause
 - Wrong site/monitor
 - Wrong method
 - Wrong unit
 - Wrong duration
 - Wrong period
- Possible Fix

Batch Load Error: Status for
XXXXXX_XXXX is inactive.

- Possible Cause
 - Old code for
XXXXXX_XXXX
- Possible Fix

Batch Load Error: Invalid Raw Data
Qualifier

- Possible Cause
 - Wrong site/monitor
 - Wrong event/null/QA Code.
 - Invalid code for parameter
- Possible Fix

Batch Load Error: Agency Role Begin
Date must fall within a valid sample period

- Possible Cause
 - Wrong site/monitor
 - Wrong date/time
- Possible Fix

Batch Load Error:

Monitor_type_begin_date not within valid sample period.

- Possible Cause
 - Wrong site/monitor
 - Wrong date/time
- Possible Fix

Batch Load Error: More than one RCF defined for this monitor-date.

- Possible Cause
 - Duplicate Load
 - Wrong site/monitor
 - Wrong date/time
- Possible Fix

Batch Load Error: Production record
doesn't exist to update or delete

- Possible Cause
 - Wrong site/monitor
 - Wrong date/time
 - Data not posted
- Possible Fix

Batch Load Error: Invalid Method Code

- Possible Cause
 - Wrong site/monitor
 - Wrong date/time
- Possible Fix

Batch Load Error: Monitor has no
defined reporting organization for this time

- Possible Cause
 - Wrong site/monitor
 - Wrong date/time
 - Incomplete monitor definition
- Possible Fix

Batch Load Error: Unable to
Insert/Update Accuracy Record in database

- Possible Cause
 - No P&A role
 - Wrong site/monitor
 - Wrong date/time
- Possible Fix

Batch Load Error: This monitor was not being sampled during the defined Accur

- Possible Cause
 - Raw data not posted
 - Wrong site/monitor
 - Wrong date/time
- Possible Fix

Batch Load Error: The Accuracy Date must be between Jan 1, 1980 and the current date

- Possible Cause
 - Wrong date/time
- Possible Fix

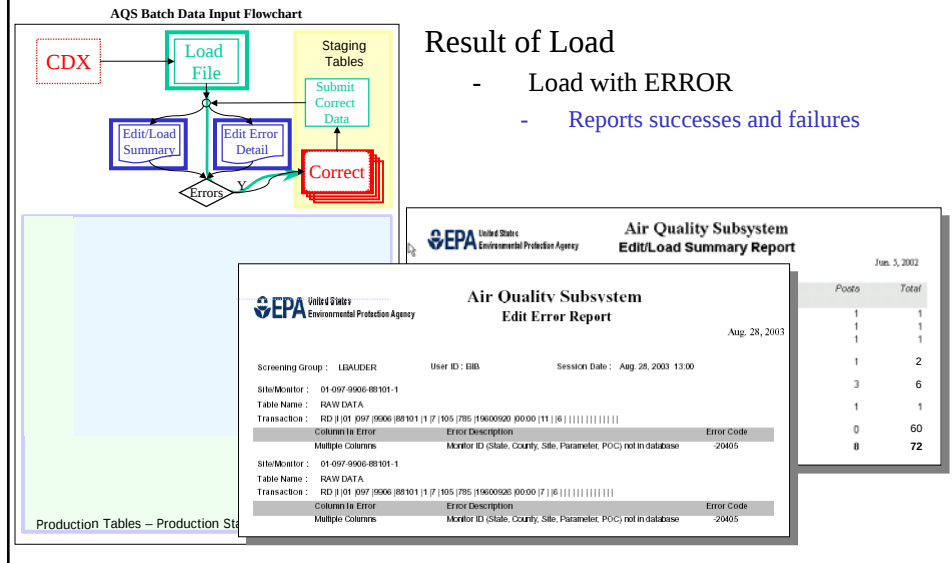
Batch Load Error: Maximum Percent
Difference defined for the parameter was exceeded

- Possible Cause
 - Transcription error
 - Wrong site/monitor
 - Wrong date/time
 - Wrong protocol
- Possible Fix

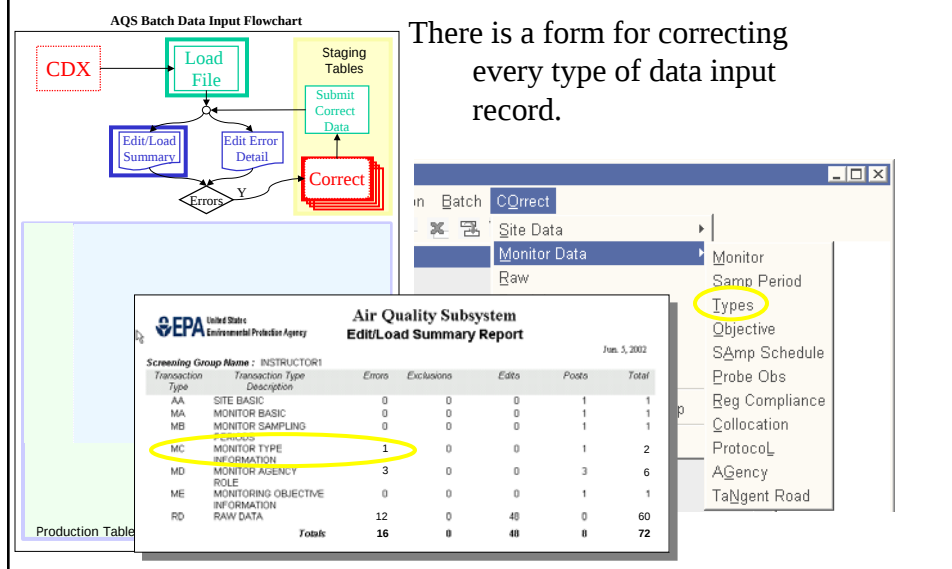
Batch Load Error: The null data qualifier
code or the reported sample value must exist.

- Possible Cause
 - Missing Null code
 - Missing sample value
- Possible Fix

Batch load: Error Process



Batch load: Correct Forms



Batch load: using Correct forms

Correct - Monitor Types (Lbauder)

State Code	County Code	Site Id	Parameter Code	POC	Action Ind	Session Date	Monitor Type	Type Begin Date	Type End Date	Exclusion Ind	E D
48	141	9954	81102	2	3	20030628	UNKNOWN	19700101			

Delete All Selected

Column Name	Error Code	Error Message
MULTIPLE COLUMNS	20775	monitor_type_begin_date not within valid sample period.

Batch load: using Correct forms Deleting Data

Correct - Monitor Types (Lbauder)

State Code	County Code	Site Id	Parameter Code	POC	Action Ind	Session Date	Monitor Type	Type Begin Date	Type End Date	Exclusion Ind	E D
48	141	9954	81102	2	3	20030628	UNKNOWN	19700101			

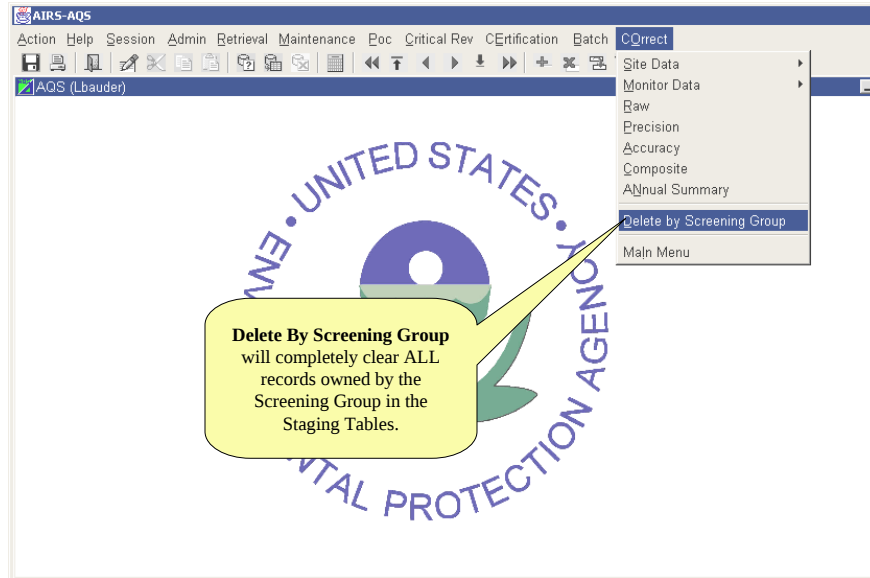
Delete All Selected

The highlighted record can be deleted from the form.
The record will be deleted from the Staging Table database only after a SAVE.

All selected records will be deleted.
The records will be deleted from the Staging Table database when the button is clicked.

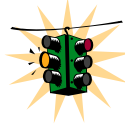
Batch load: using Correct forms

Deleting Data



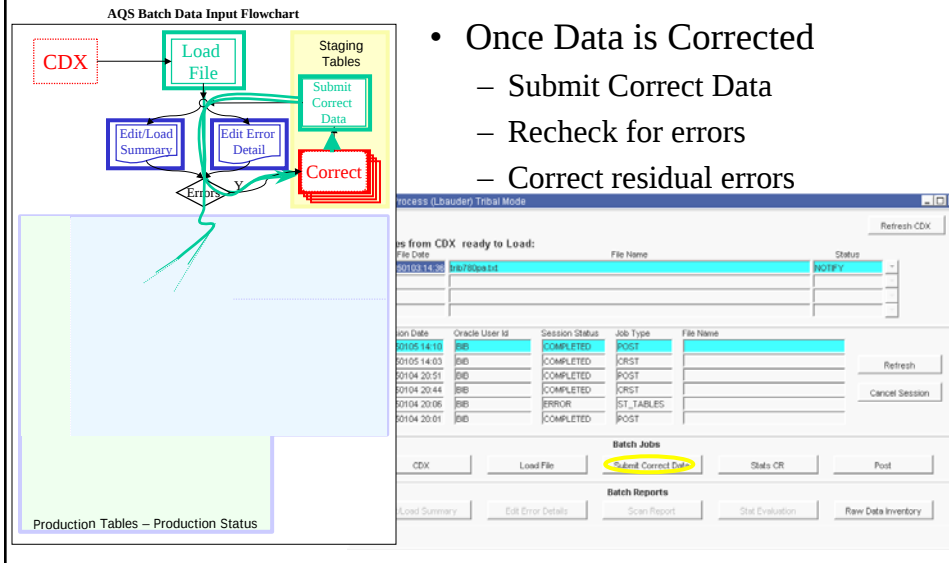
Correct features

- New transactions may be entered using Correct forms
- After making changes/additions on Correct screen, be sure to **SAVE** your changes
- “Delete All Selected” button will delete according to the “Execute Query” selection criteria for the form. It will ignore subsequent changes.
- Can use the “Delete by screening group” to completely eliminate all records in the staging tables for your screening group. Please don’t leave old data around “forever”.



Be sure this is what you want to do. It works quickly and it deletes **everything** for the screening group, including data entered by other users in your screening group.

Batch load: Submit Correct Data



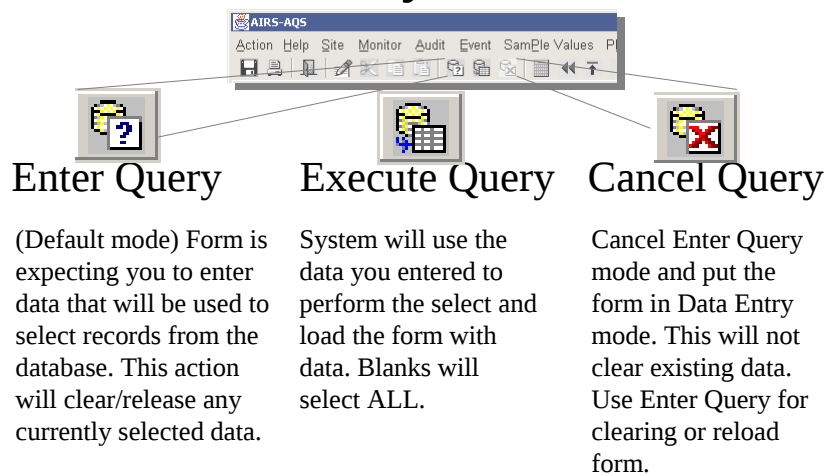
Student exercise 3.3

- Analyze and correct the following Batch load error types
 - Site/mon does not exist
 - Duplicate data
 - Missing data
 - Overlapping data
 - Value out of range
 - Wrong screening group
 - Inactive monitor on date of entry
 - Value not found in reference table

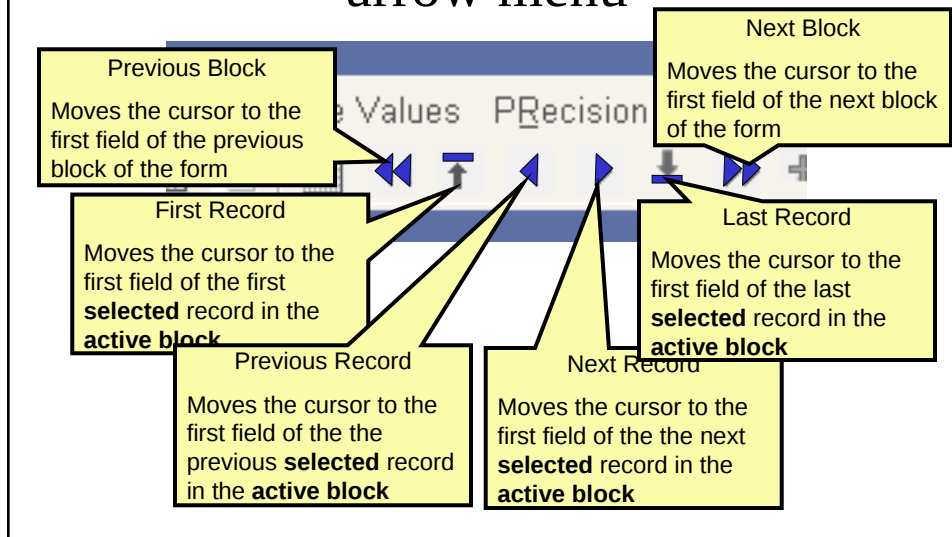
Maintain

- Forms tools review
- Site/Monitor Add/Modify Data
- Inserting/Deleting/Updating Raw Data

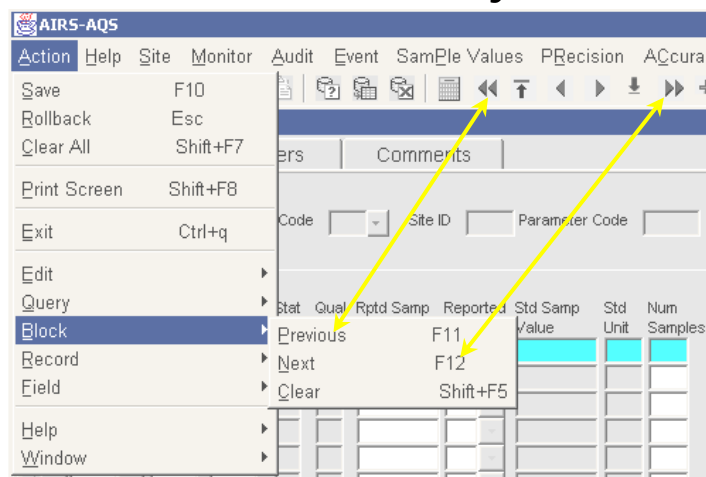
Maintain Forms tools review: Query tools



Maintain Forms tools review: arrow menu

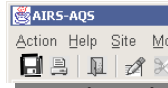


Maintain Forms tools review: Action menu or keyboard

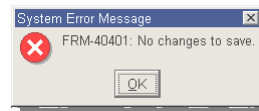


Maintain Forms tools review: SAVE!!!!

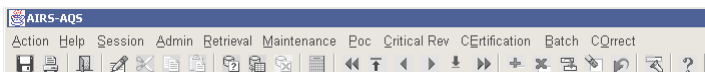
- Any data modifications made are temporary until a SAVE is done.
- The only confirmation you receive is in the lower left corner of the AQS window
- If you save with no changes made...



FRM-40400: Transaction complete: 2 records applied and saved.
Record: 1/?



Maintain Forms tool review



- Can you identify?
 - Previous block
 - Insert Record
 - Next record
 - Enter Query
 - Save Record
 - First Record
 - Duplicate Record
 - Execute Query
 - Cancel Query
 - Previous Record
 - Delete Record
 - Help

Maintain: Student Exercise 4.1

Maintain: Online Update

- Update with Maintain
 - Update existing records
 - Delete records
 - Add new records
- Screening Group Ownership
 - Data must be “owned” to be changed
 - Selection global or by record
 - Edits/Validations performed
 - Type entry or drop down lists to select
 - Required fields/tabs identified (bold / underlined)
 - **Save Changes**
 - Checks dependencies between tabs
- POST data if maintaining Raw, Composite or Summary data

Maintain: Site/Monitor Add Data

- Instructor Demo
 - Select Maintain Site screen
 - 1. Cancel Query button
 - 2. Add (+) Record button
 - 3. Enter new Site ID
 - 4. Enter site data in fields
 - 5. Click Save record button
 - 6. Click on Create Monitor button
 - Maintain Monitor Screen
 - 1. Select parameter
 - 2. Enter monitor data in fields
 - 3. Click Save record button

Maintain: Student Exercise 4.2

- Create new data records using Maintain Site
 - Create Monitor
- Create new data records using Maintain Monitor
 - Duplicate monitor

Maintain: Delete Records

- Raw data may be deleted.
 - Remember to run Stats CR job & post the deletes
- Monitors may be deleted if no raw data has been loaded.
 - BETTER: Set the Monitor Sampling Period and Reporting Agency end date
- Sites may be deleted if no raw data has been loaded in the monitor.
 - All but one monitor must be deleted first.
 - BETTER: Set the Site Termination Date



Maintain: Inserting/Deleting/Updating Raw Data

1. Enter Raw Data parameters
2. Execute Query
3. Find raw data record and click Insert Record button
4. With new empty row highlighted click Duplicate Record button
5. Add I/U/D as appropriate to the Action Indicator Field for the Duplicated record.
 - For Insert set a new date/time and sample value
 - For Update set a new sample value
6. Click SAVE button to Save your changes
7. Run the Stats CR and Post

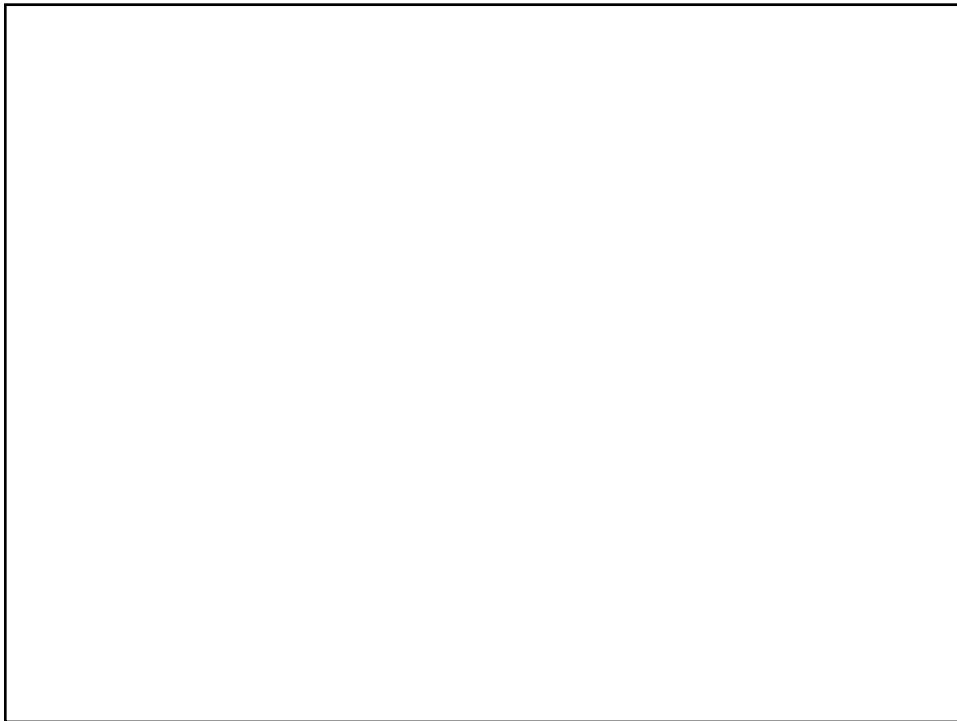
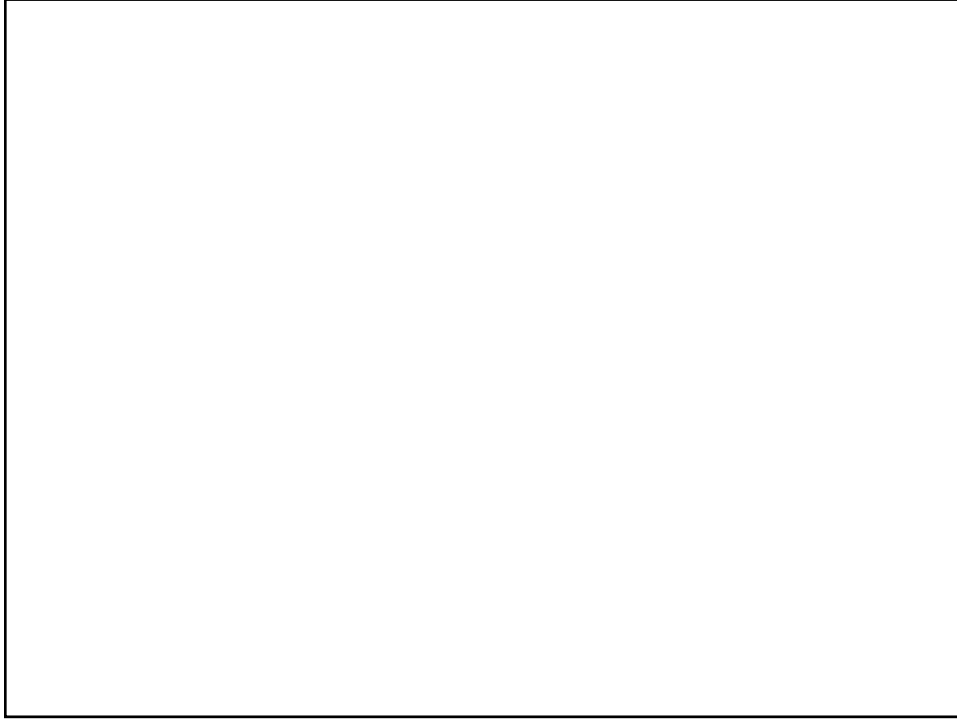
Maintain: Student Exercise 4.3

- Create and modify data records using Maintain Raw
 - Use StatCR and Post to move data into production
- Create new data records using Maintain Composite
- Create new data records using Maintain Summary
- Create new data records using Maintain P&A

Maintain: Review

- ?

AQWeb Basic User Class



Reports

- Extract Reports
- Standard Reports
 - Create standard reports
 - Report Criteria Set
 - Report formats (rtf, pdf, etc)

Standard Reports

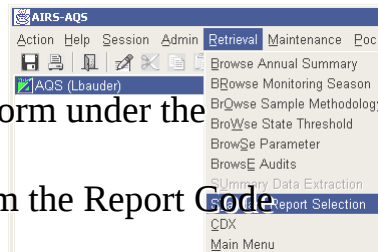
The screenshot displays the 'Standard Report Criteria Selection (T50) AMP410 Tribal Mode' web application. The interface features a top navigation bar with tabs: 'Criteria Set', 'Monitor Selection', 'Area Selection', 'Sort Order', 'Report Options', and 'Retrieve Reports'. The 'Criteria Set' tab is active, showing a form with fields for 'Criteria Set' (a dropdown), 'Desc' (a text input), 'Owner' (with values 'LARRY' and 'BAUDER'), and 'Type' (with value 'PRIVATE'). Below this, the 'Report Code' is set to 'AMP410' and the 'Report Name' is 'AIR QUALITY INDEX REPORT'. The 'Report Outputs' section includes radio buttons for 'Run Online', 'Send via Email' (selected), and 'Send to CDX'. There are checkboxes for 'REPORT' (checked), 'WORKFILE', and 'XML'. A 'Print Format' dropdown is set to 'PDF', and a 'File Name' input field is present. The 'Report Selection Mode' section has radio buttons for 'Monitor Selection(detail)' (selected) and 'Area Selection'. At the bottom, there are two buttons: 'Generate Report' and 'CDX to Retrieve Batch Reports'.

Extract (AMP50n) reports

- These reports are useful for duplicating and reloading data (esp. duplicating site/mon)
- Reports create data files in batch load format
 - AMP500 - Extract Site/Monitor Data
 - AMP501 - Extract Raw Data
 - AMP502 - Extract Precision and Accuracy Data
 - AMP503 - Extract Blanks Data
 - AMP025 - Screening Group Inventory

Extract Reports

1. Open the Standard Report form under the Retrieval pulldown menu.
2. Select an Extract report from the Report Code LOV
3. Select Online or Batch for output
 - If batch, select CDX or e-mail
4. Fill in the Filename field
5. Go to a Selections tab and specify the selection criteria in the appropriate fields
6. Click on Generate Report button



Extract reports: Student exercise 5.2

- Create AMP500 and AMP501 reports on the data you loaded in exercise 3.1, 3.2 and 3.3

Standard Reports: general issues

- Do NOT run reports without specifying some limiting selection criteria.
- Almost all reports require date selection criteria.
- Sort Order and Report Options are available on reports where the data structure will allow it.
- (Oracle provides output in several formats. PDF is generally the most reliable.)
- (Do not use the IE window that started AQS for any other purpose. If it is not blank gray, reports will not run properly.)

Standard Reports: Batch/Online

- With web delivery there is no appreciable difference in cost of delivery between online and batch creation of reports. The only decision is delivery method:
 - Online: Web browser window display, save from browser window
 - Batch/CDX: Separate CDX transfer of report to local disk
 - Batch/email: Email delivery of report as a link.

Standard Reports: Create standard reports

1. Select report
2. Establish report selection criteria
3. Modify report Sort Order criteria where available
4. Modify output Report Options where available
5. Generate report in desired output format from the selection tab or main tab.
6. When you leave the Reports form you will be prompted to save the report Criteria Set. “No” will let you open another form.

Standard Reports: Criteria Set

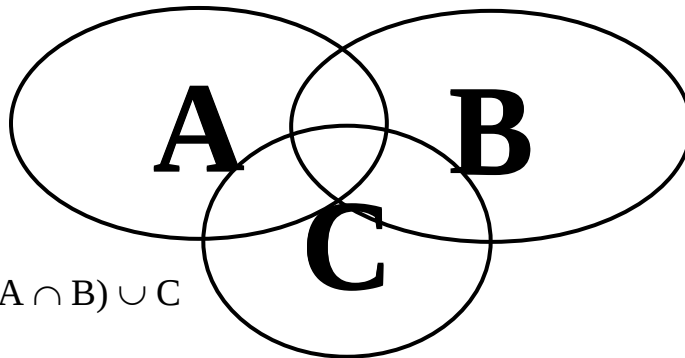
The screenshot shows a web application window titled "Standard Report Criteria Selection (T50) AMP410 Tribal Mode". It features a navigation bar with tabs: "Criteria Set", "Monitor Selection", "Area Selection", "Sort Order", "Report Options", and "Retrieve Reports". The "Criteria Set" tab is active. Below the navigation bar, there are several input fields and sections:

- Criteria Set:** A dropdown menu.
- Owner:** Two text input fields containing "LARRY" and "BAUDER".
- Type:** A dropdown menu set to "PRIVATE".
- Report Code:** A dropdown menu set to "AMP410".
- Report Name:** A text input field containing "AIR QUALITY INDEX REPORT".
- Report Outputs:** A section with three checkboxes: "REPORT" (checked), "WORKFILE" (unchecked), and "XML" (unchecked). To the right is a "File Name" text input field.
- Run Options:** Three radio buttons: "Run Online" (selected), "Send via Email" (unchecked), and "Send to CDX" (unchecked).
- Report Selection Mode:** Two radio buttons: "Monitor Selection(detail)" (selected) and "Area Selection" (unchecked).
- Buttons:** At the bottom, there are two buttons: "Generate Report" and "CDX to Retrieve Batch Reports".

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Standard Reports: and/or selection logic

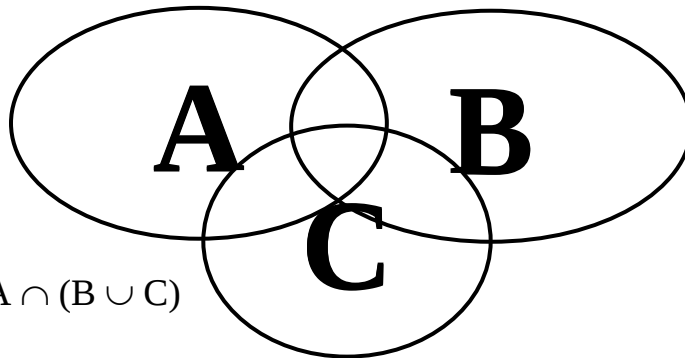
- A and B or C



- $(A \cap B) \cup C$

Standard Reports: and/or selection logic

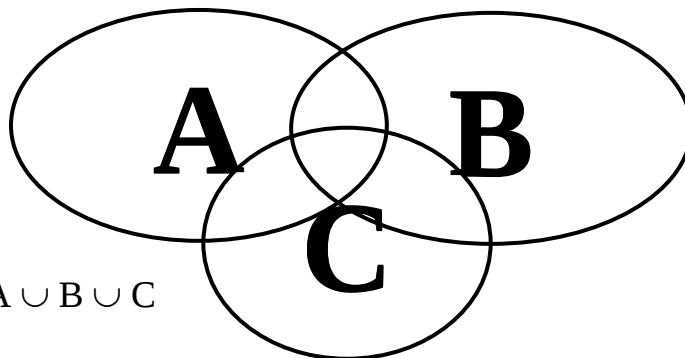
- A and (B or C)



- $A \cap (B \cup C)$

Standard Reports: and/or selection logic

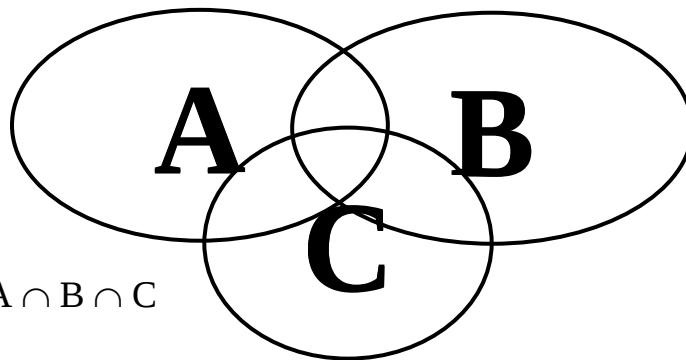
- A or B or C



- $A \cup B \cup C$

Standard Reports: and/or selection logic

- A and B and C



- $A \cap B \cap C$

Standard Reports: and/or in selections tab rows/blocks

- AND within a row
- OR between rows in block
- AND between blocks

Standard Reports: and/or in selections tab blocks

Standard Report Criteria Selection (Read Only) AMP350

Criteria Set | **Monitor Selection** | Area Selection | Sort Order | Report Options | Retrieve Reports

Geographical Criteria

State Code	County Code	City Code	Aqcr Code	User Code	Msa Code	Cmsa Code	Epa Region Code	Zip Code
19								

Monitor Type: ALL | Land Use Type: | Reporting Organization: 1080 UNIVERSITY HYGENIC LABORATORY

Protocol Criteria

Pollutant Type	Parameter Code	Method Code	Duration Code

Date Criteria

Start Date: 1998-01-01 | End Date: 1998-01-31

Screening Group

Screening Group Name: |

Generate Report

Standard Reports: and/or in selections tab blocks

Standard Report Criteria Selection (Read Only) AMP350

Criteria Set | **Monitor Selection** | Area Selection | Sort Order | Report Options | Retrieve Reports

Geographical Criteria

State Code	County Code	City Code	Aqcr Code	User Code	Msa Code	Cmsa Code	Epa Region Code	Zip Code
36							01	

Monitor Type: | Land Use Type: | Reporting Organization: |

Protocol Criteria

Pollutant Type	Parameter Code	Method Code	Duration Code
CRITERIA			

Date Criteria

Start Date: 1998-01-01 | End Date: 1998-01-01

Screening Group

Screening Group Name: |

Generate Report

Standard Reports: and/or in selections tab blocks

Standard Report Criteria Selection (Read Only) AMP350

Criteria Set | Monitor Selection | Area Selection | Sort Order | Report Options | Retrieve Reports

Geographical Criteria

State Code	County Code	City Code	Aqcr Code	Uar Code	Msa Code	Cmsa Code	Epa Region Code	Zip Code
36							01	

Monitor Type: Land Use Type: Reporting Organization:

Protocol Criteria

Pollutant Type	Parameter Code	Method Code	Duration Code
	44201		
	42401		

Date Criteria

Start Date: YYYY MM DD 1998 01 01 End Date: YYYY MM DD 1998 01 31

Screening Group Name:

Generate Report

Standard Reports: Selections

Standard Report Criteria Selection (Read Only) AMP350 Tribal Mode

Criteria Set | Monitor Selection | Area Selection | Sort Order | Report Options | Retrieve Reports

Geographical Criteria

Tribal Code	State Code	County Code	Site Id	City Code	Aqcr Code	Uar Code	MSA Code	CMSA Code	EPA Region Code

Monitor Type: Land Use Type: Reporting Organization:

Protocol Criteria

Pollutant Type	Parameter Code	Method Code	Duration Code

Date Criteria

Start Date: YYYY MM DD End Date: YYYY MM DD

Screening Group Name:

Generate Report

Standard Reports: Sort Order

Standard Report Criteria Selection (Lbauder) AMP350

Criteria Set | Monitor Selection | Area Selection | **Sort Order** | Report Options | Retrieve Reports

Sort Order

Order	Column Name	Allowed Range	
		Lo	Hi
1	STATE_CODE	1	5
2	COUNTY_CODE	1	5
3	SITE_ID	1	5
4	PARAMETER_CODE	1	5
5	POC	1	5

Move highlighted column up

Move highlighted column down

Generate Report | Restore Report Defaults

Standard Reports: Report Options

Standard Report Criteria Selection (Lbauder) AMP350

Criteria Set | Monitor Selection | Area Selection | Sort Order | **Report Options** | Retrieve Reports

INCLUDE NULLS: YES

DAILY STATISTICS: MAXIMUM

UNITS: STANDARD

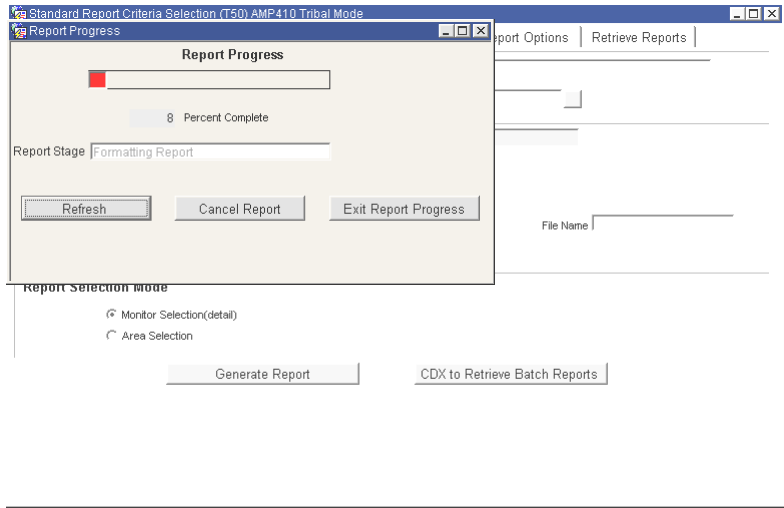
RAW DATA EVENTS: INCLUDE EVENTS

ALTERNATE STANDARDS

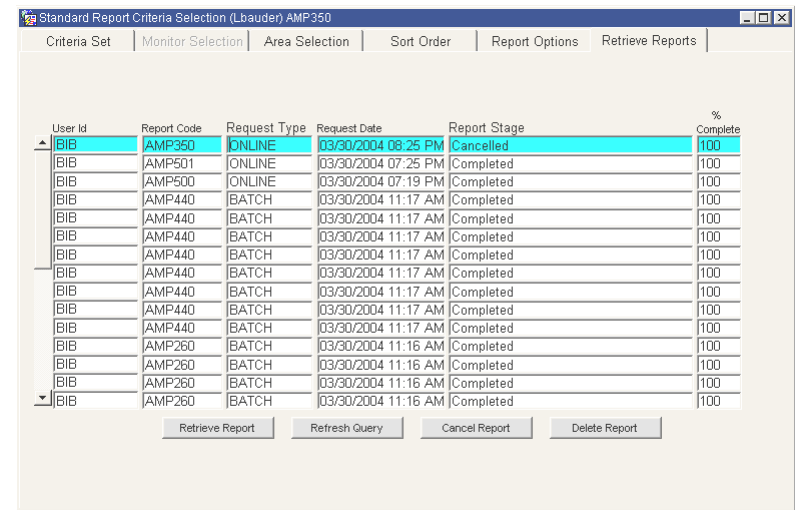
Parameter	Duration	Primary Std.	Secondary Std.

Generate Report

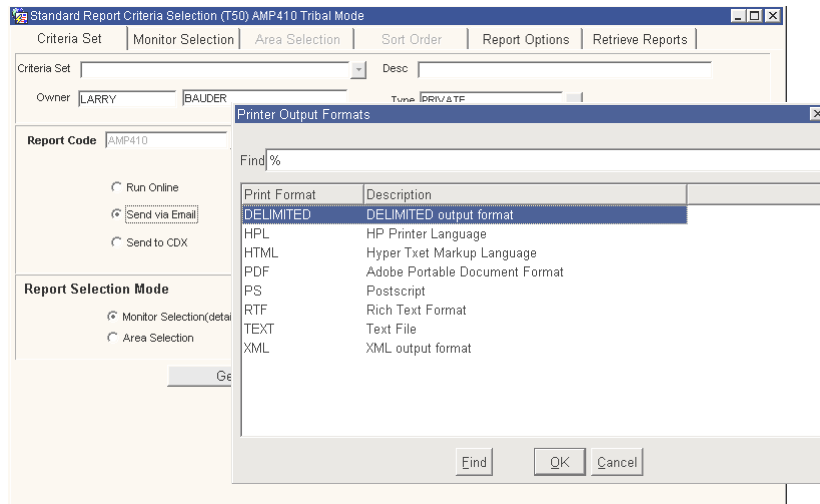
Standard Reports: Progress Popup



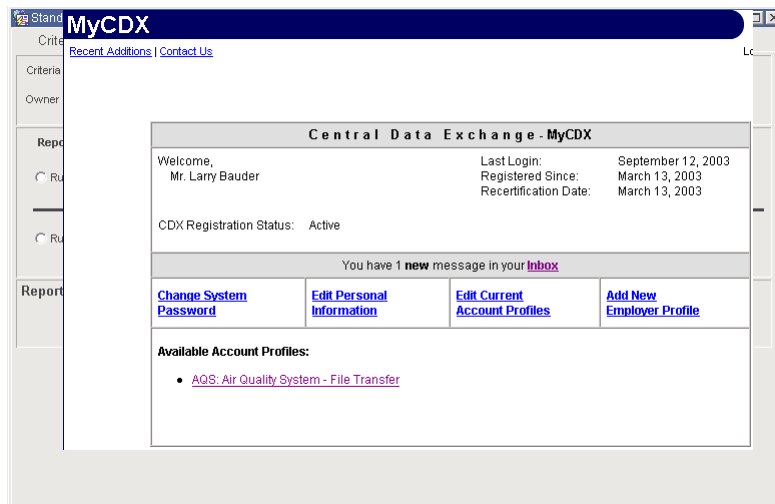
Standard Reports: Retrieve Reports



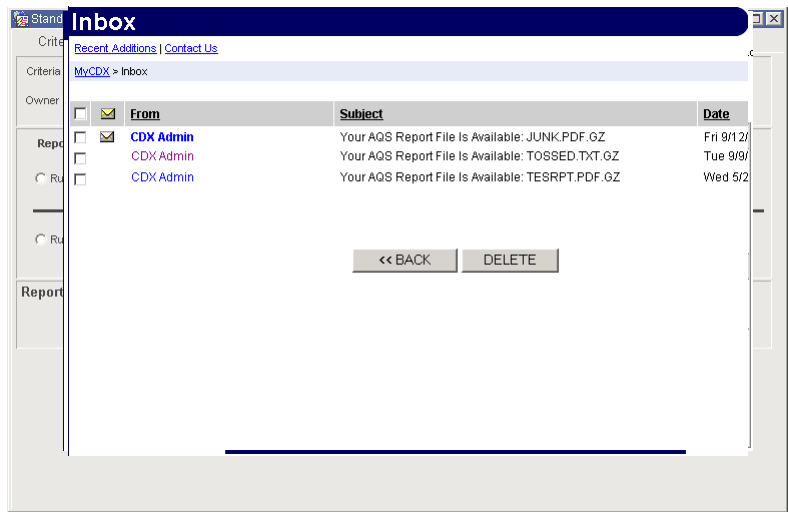
Standard Reports: Create different report output formats



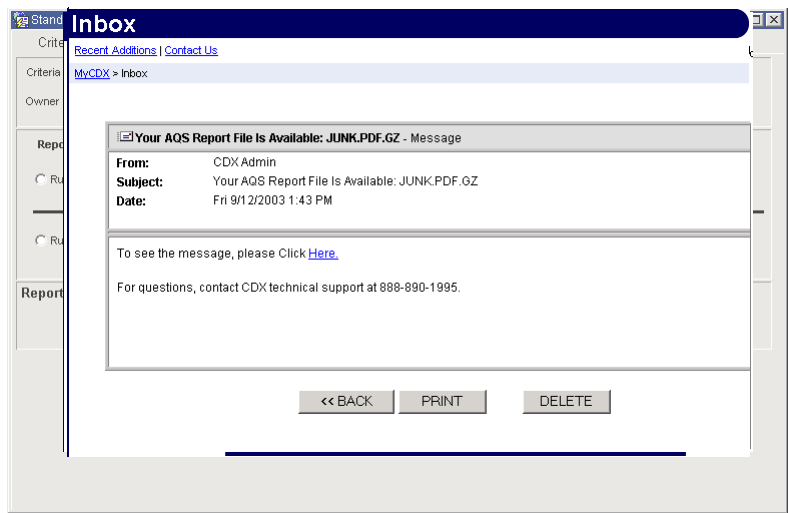
Standard Reports: Retrieving CDX



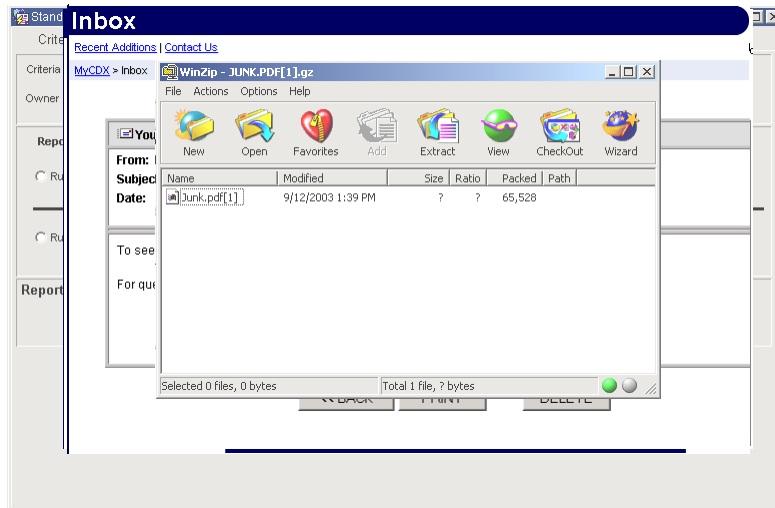
Standard Reports: Retrieving CDX



Standard Reports: Retrieving CDX



Standard Reports: Retrieving CDX



Standard Reports: Create report Criteria Set

1. Once report has run successfully, return to the Criteria Set tab of the Standard Reports form.
2. Enter a recognizable Criteria Set name and Description in the appropriate fields
3. Click the Save button on in the icon menu
 - The data is now a record in the Criteria Set table in the AQS database.

Standard Reports: Retrieve report Criteria Set

1. With the Standard Reports form open, select Enter Query
2. Click on the LOV for Criteria Set field
3. Select the desired set from the LOV
4. Modify selection and reporting fields as desired.
5. Generate report

Standard Reports: Duplicate report Criteria Set

- Any current Criteria Set can be saved as a Public Criteria Set. This allows you to share report parameters with others.
- You may also duplicate a criteria set by saving it with a new name (You cannot assign a new owner.)

Standard Reports: Exercise 5.3

1. Create a Raw Data Report for the monitors in your home town/county in 1998
2. Limit the next report to just one agency
3. Then swap the reported/standard units
4. Compare PDF, RTF and HTML output formats.
5. Save this as a criteria set and make it public.
6. Try to use your neighbor's criteria set.

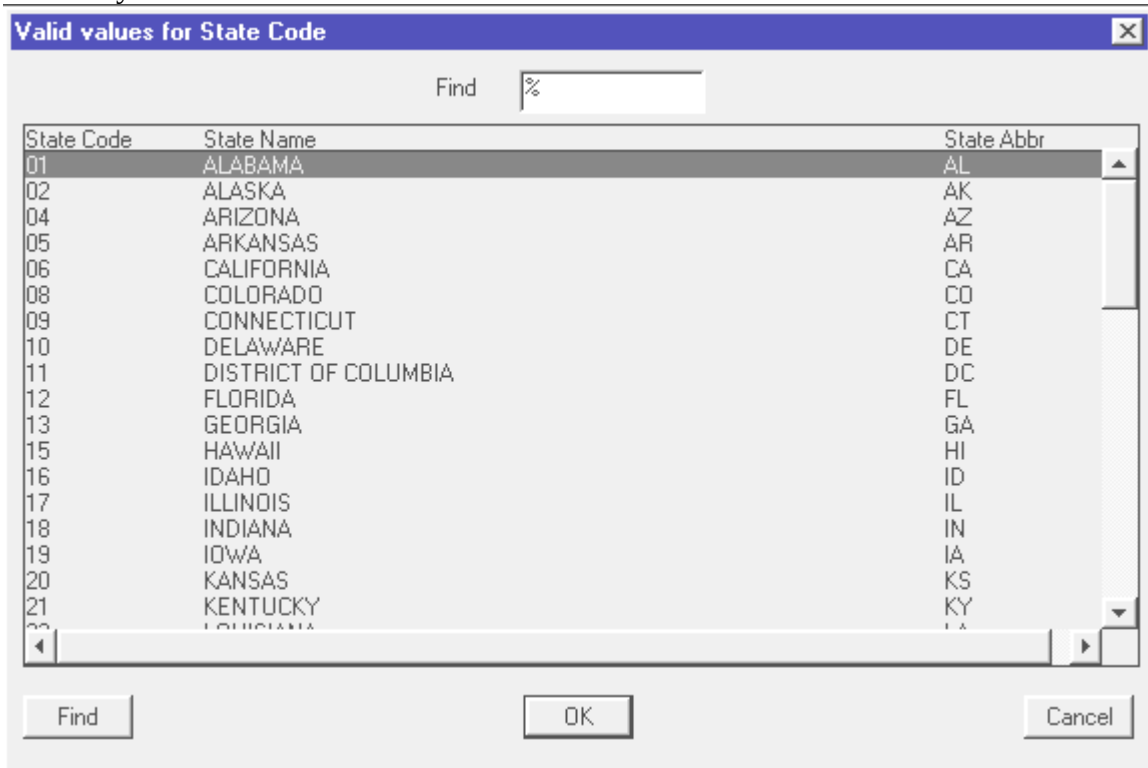
Reports review

?

Appendix A. Tips & Tricks

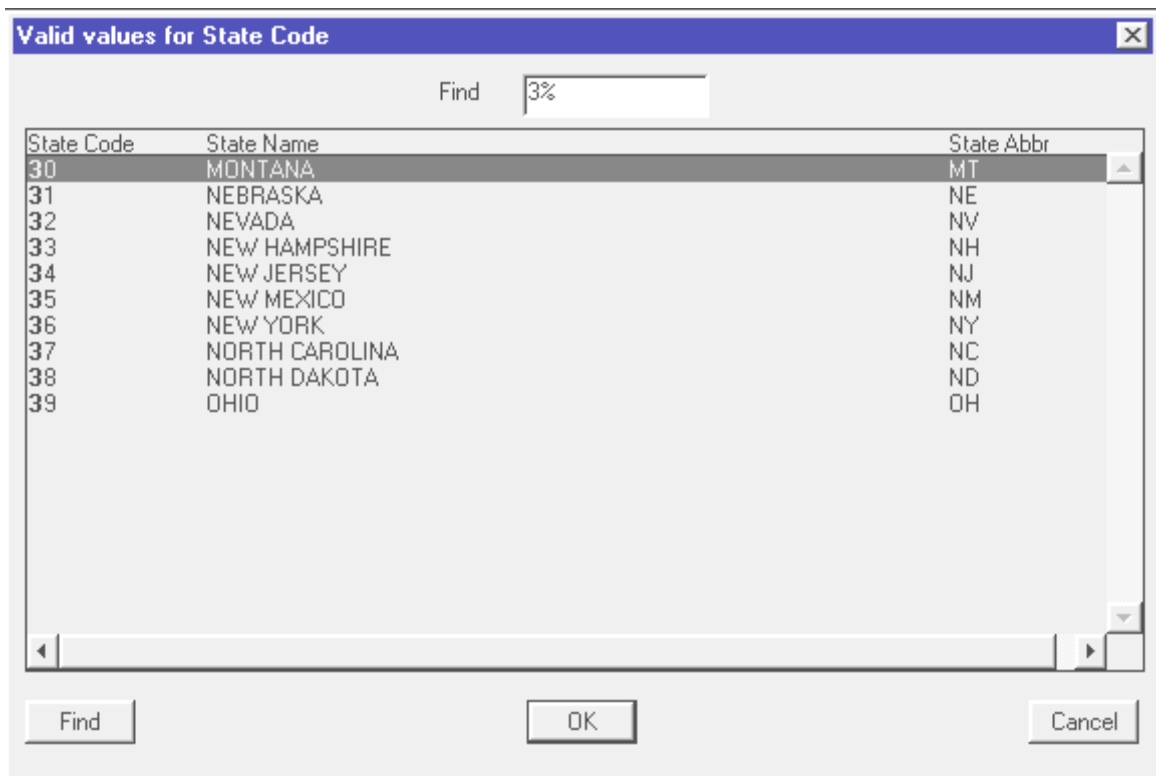
 Making the most of LOV's (List of values i.e. Popup lists):

Whenever a  button appears beside a field, you can click on the button to see a list of available values for the field. Here is the list of valid values for State Code. You may click on your choice and then click OK, or double click to have that value placed in the field for you.



That works fine when the list is a short one. When a long list is presented to you, type in the first few letters or numbers if you know them. That will bring you to a starting point much closer to the value you are looking for.

In the example below, we were looking for North Carolina and knew it was 3 something. When you're entering a starting value for the first column in a LOV, enter it in front of the "%". (In fact, if you just start typing, it will put it there. So, you don't have to move a mouse to get there.)



If you don't know the first character(s), but know part of the name, type it in after the "%" in the Find box.  Press Enter to see all state names that contain "north".

Printing reports:

The Edit Summary Report prints fine in portrait view.

The Edit Detail Report should be printed landscape.

Getting brief help for a field:

Click your cursor within a field to see brief help for that field in the bottom portion of your screen.

Date fields:

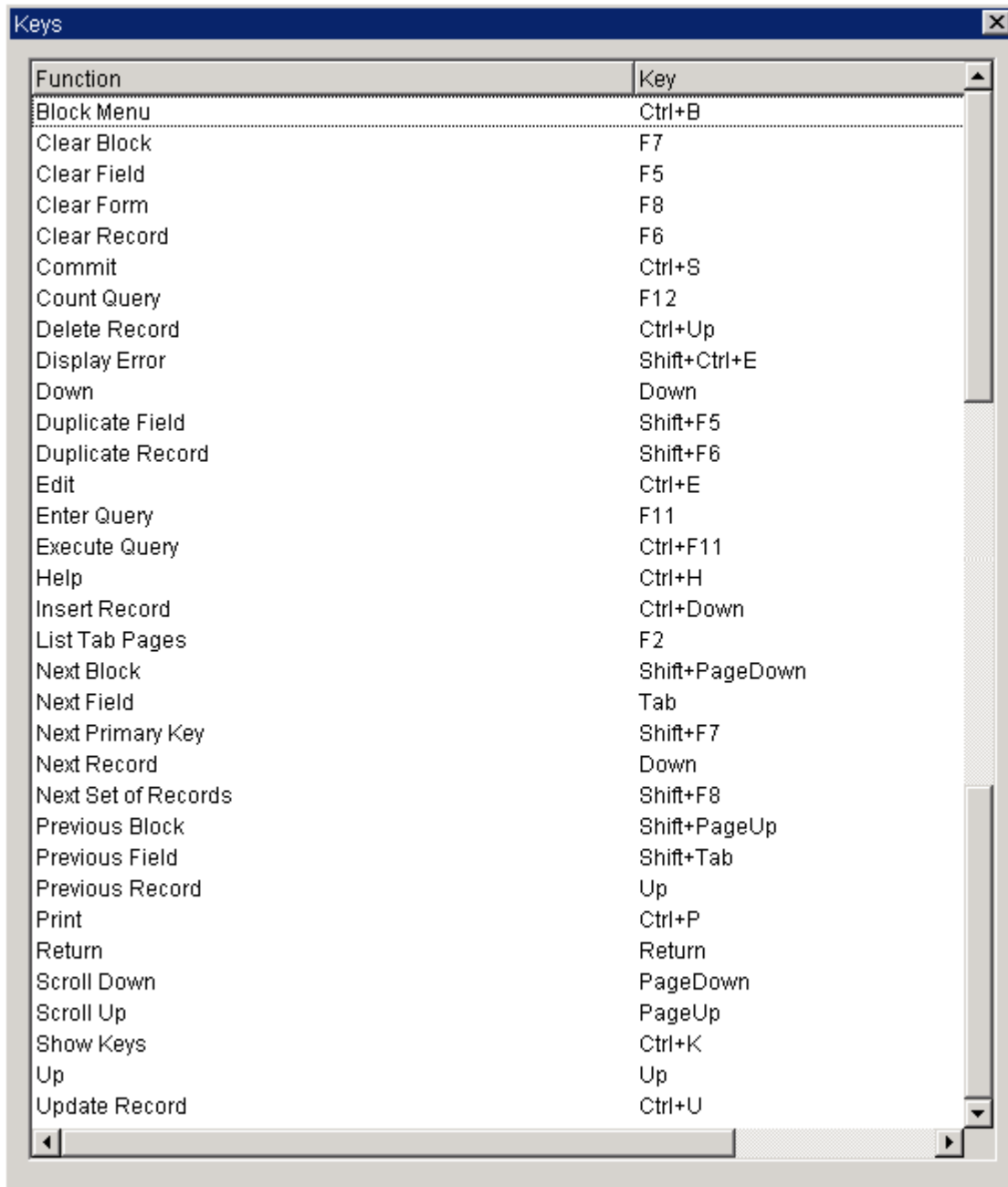
Date fields are in the format `yyyymmdd`. Formats are displayed when you move your cursor into the field in question.

Queries:

Provide as little or as much of the data as needed to search for the data you want.

Example: When updating data, to see **all** input transactions for your screening group that need correcting before posting, leave all fields blank and just click on the Execute Query button.

Options and shortcut keys:



The image shows a screenshot of a software window titled "Keys". It contains a table with two columns: "Function" and "Key". The table lists various functions and their associated keyboard shortcuts. The window has a standard Windows-style border with a title bar, a close button (X), and scroll bars on the right and bottom.

Function	Key
Block Menu	Ctrl+B
Clear Block	F7
Clear Field	F5
Clear Form	F8
Clear Record	F6
Commit	Ctrl+S
Count Query	F12
Delete Record	Ctrl+Up
Display Error	Shift+Ctrl+E
Down	Down
Duplicate Field	Shift+F5
Duplicate Record	Shift+F6
Edit	Ctrl+E
Enter Query	F11
Execute Query	Ctrl+F11
Help	Ctrl+H
Insert Record	Ctrl+Down
List Tab Pages	F2
Next Block	Shift+PageDown
Next Field	Tab
Next Primary Key	Shift+F7
Next Record	Down
Next Set of Records	Shift+F8
Previous Block	Shift+PageUp
Previous Field	Shift+Tab
Previous Record	Up
Print	Ctrl+P
Return	Return
Scroll Down	PageDown
Scroll Up	PageUp
Show Keys	Ctrl+K
Up	Up
Update Record	Ctrl+U

AIRS-AQS

Action
Help
Session
Admin
Retrieval
Maintenance
Poc
Critical Rev
Certification
Batch
Correct
Window

The menu items below have submenus. Other menu items go directly to their respective screens.

Action

SaveF10
RollbackEsc
Clear AllShift+F7

Print ScreenShift+F8
Print Setup...

ExitCtrl+q

Edit▶
Query▶
Block▶
Record▶
Field▶
Help▶

Help

HelpF1

KeysCtrl+F1
Display ErrorShift+F1

About

Admin

Security
Reference▶
User Statistics▶
Appl Audits▶
Export Ca Dump Bucket
Main Menu

Retrieval

Browse Annual Summary
Browse Monitoring Season
Browse Sample Methodology
Browse State Threshold
Browse Parameter
Browse Audits
Summary Data Extraction
Standard Report Selection
Main Menu

Maintenance

Site
Monitor
Audit
Event
Sample Values▶
Precision
Accuracy
Summary
Concurrence Ind
Main Menu

Critical Review

Report Selection Criteria
Restore/Freeze Original Data Values
Delete Obsolete Records
Main Menu

Correct

Site Data▶
Monitor Data▶
Raw
Precision
Accuracy
Composite
Annual Summary

Delete by Screening Group
Main Menu

Icons



Appendix B Glossary of Terms

Acct Num: See UNIX Account

Batch jobs vs Online processes: Much of the data for AQS is generated automatically by data loggers and consists of files with many records. The data from such files may be added to the AQS database through a batch job. When only a few records need to be added or changed, it may be simpler to use an online process to enter the data. In particular, site and monitor data is expected to be entered using an online process. In fact, “comment” information may only be entered in an online process.

Batch Printing: A legacy term to describe printing that does not control the user interface while the report is being generated. In fact, all reports are now generated when requested and retrievable from the Report Output tab of the Standard reports form for some time after generation regardless of how they were requested or the initial delivery method.

BLOCK: A portion of an AQS form that contains one or more data fields grouped together.

CDX: Central Data Exchange. A product used by the EPA to transport data files that various applications (including AQS) use.

Database name: AQSPProd

“Flat” file: A file containing records that have no structured interrelationship. This term is commonly used to describe files that have only textual data viewable via a simple text editor such as Notepad or the MS DOS Edit command. In AQS, Extract Reports and Workfiles create flat files containing records of sample values for a pollutant over a period of time.

MDL: Minimum Detection Level; The smallest amount of a pollutant measurable by a device or protocol. Many reports and summaries automatically convert all values reported as less than Half MLD (such as 0) at Half MDL. While users may define MDL for a monitor at a finer level than the protocol, reports will only use the default MDL and scale for the method/protocol assigned to the raw data value.

Pre-Production Status: The raw data has passed the edits done during the load process and is no longer considered to be in the screening stage. The data at this point exists in the Production database/tables but is not available for general access or evaluation by any user outside the screening group.

Protocol: The unique combination of data collection **Method, Unit, Duration** and optionally, **Collection Frequency** or **Period**. Monitor Protocols can be defined on a per monitor basis or are automatically defined when raw data is loaded for a monitor. The

Information Management Group defines acceptable combinations of values depending on device capabilities and data collection practices. **Warning!!** apparently identical protocols may have a different MDL.

Production tables: Oracle database tables containing data that have passed the basic and relational edits of the AQS program.

Rollback: Reverts your data to its state on the database at the last SAVE.

Scale: The number of places to the right of the decimal.

Screening Groups: Groups designated by EPA to control update authority to specific sites and monitors. Users that initiate updates to AQS data are allowed to update only data owned by their Screening Group. Screening Groups are named based on the state or local agency that has update access for that group. For example, “NORTH CAROLINA” is the name of the screening group used by the North Carolina state agency; “FORSYTHE CO, NC” is the name of the screening group used by the Forsythe County local agency in North Carolina.

Selection: A group of data records that have been called out from the database by the user using the Execute Query function. Not to be confused with highlighted records on a screen. In most cases only a few of many selected records are displayed on the screen and often only one is highlighted with a special color.

Staging Tables: Tables that hold data that has not passed the basic edits for its data type. Note that raw data that passes its basic edits goes into pre-production status on the production tables, not the staging tables. Such data must still undergo statistical edits before it may be marked as production data. Its status is shown as “R” to indicate it has passed the relational checks or “S” to indicate it has passed the statistical checks. (See Status Ind below.)

Status Ind: For Sample Values (a.k.a., raw data), the Status Indicator indicates the current status of the value. Users outside the screening group for the monitor will only see records that are in production status. Users within the screening group, may also see pre-production status indicators. The following table lists the valid status indicators for sample values:

P	➔ Production
S	➔ Statistical Analysis completed (a pre-production status)
R	➔ Relational and basic edits completed (a pre-production status)
I	➔ Inactive
F	➔ Being inserted via batch processing

Status info: The last line on the screen typically shows your status. It will say, “Enter query” when you’re in query mode. If you’ve already queried, it will show which record you are viewing of the batch it returned. “Record 1/?” means you’re viewing the first record and the

system does not yet know how many records matched your request. (Queries would take longer if it counted all the records before displaying any of them.)

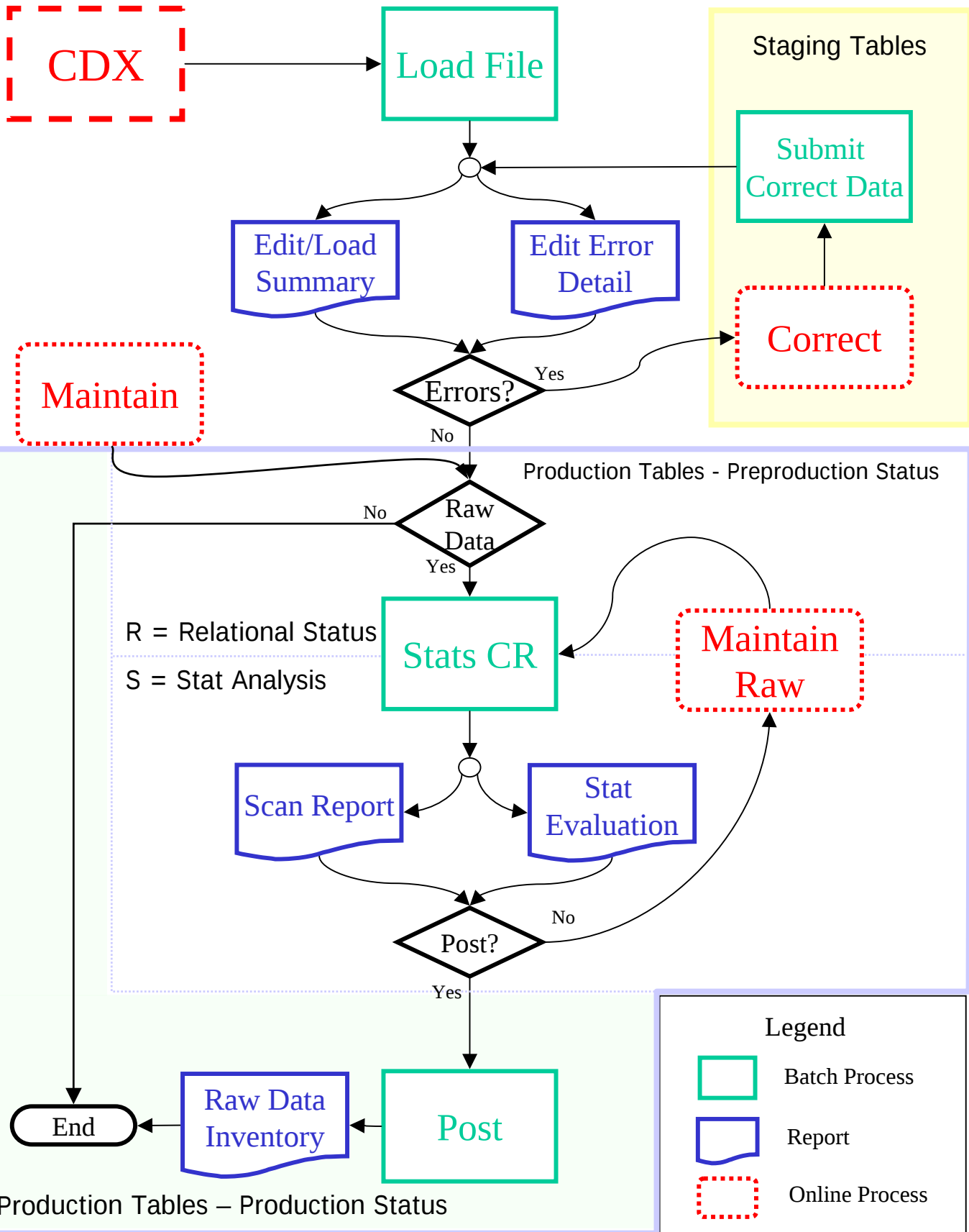
Tabs: Tabs provide access to additional data about the record(s) you are viewing. If a tab appears “grayed out” then that information is either not yet available, does not exist, or you are not authorized to view it.

UNIX ID: 3-character userID assigned by EPA. Also known as **TSSMS ID**

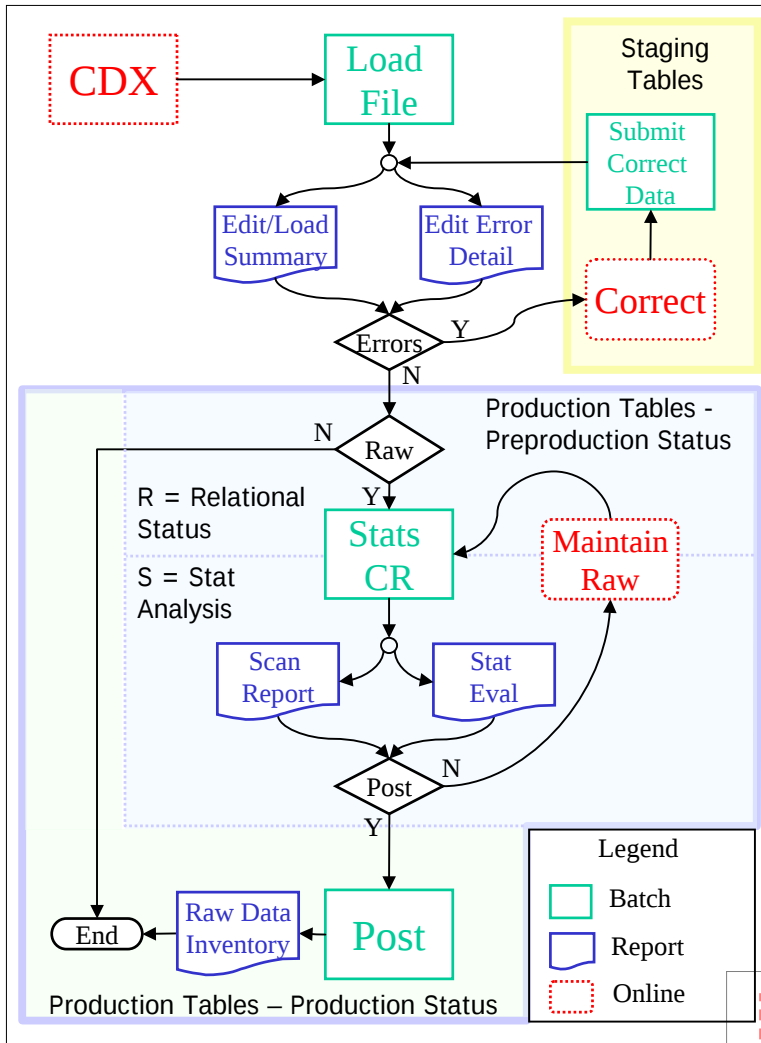
UNIX password: password assigned by EPA. This password must be changed every 90 days.

UNIX Account: Accounts are established by EPA Headquarters and Regional personnel to manage users of EPA systems. Account names for AQS follow the same structure as the default UNIX directories: aqrrsll, where "rr" is the EPA region, "ss" is the 2-letter state abbreviation, and "ll" is a 2-character code for the local agency. UNIX ID, password, and account are shown on the TSSMS Account Authorization Notice issued by EPA and mailed to each registered user.

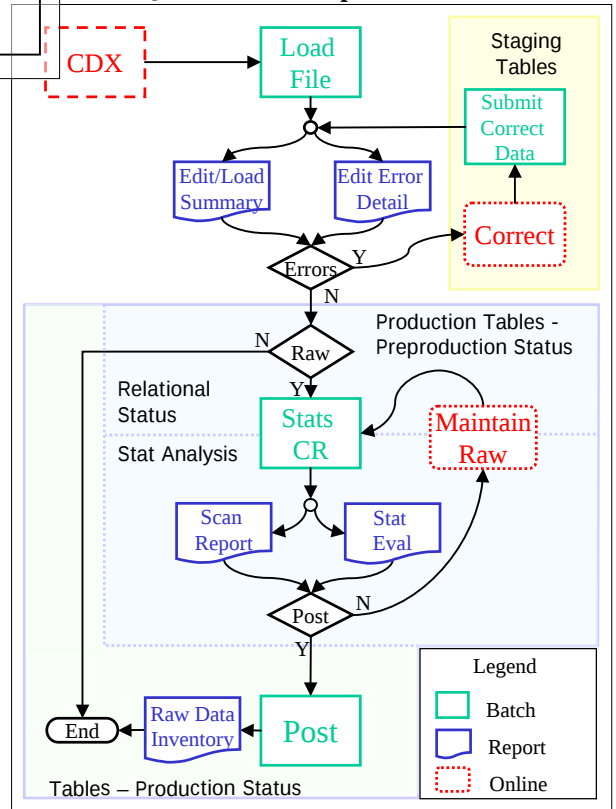
AQS Data Input Flowchart



AQS Batch Data Input Flowchart



AQS Batch Data Input Flowchart



AQS Report Samples

AMP220_D	Monitor Network Detail.....	2
AMP220_S	Monitor Network Summary.....	4
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UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
MONITOR NETWORK DETAIL

Report Request ID: 136029 Report Code: AMP220D May. 17, 2004

GEOGRAPHIC SELECTIONS															
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	EPA					
										Region	Zip Code	Method	Duration	Begin Date	End Date

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS	
Option Type	Option Value

MERGE PDF FILES

YES

SORT ORDER	
Order	Column

- 1 STATE_CODE
- 2 COUNTY_CODE
- 3 SITE_ID
- 4 EPA_REGION
- 5 PARAMETER_CODE
- 6 POC

GLOBAL DATES	
Start Date	End Date

2002 06 01 2002 07 15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
MONITOR NETWORK DETAIL

May. 17, 2004

Site ID: 06 001 1001

State: CALIFORNIA

Region: SAN FRANCISCO

Street Address: 40733 CHAPEL WAY., FREMONT

Urbanized Area: SAN FRANCISCO-OAKLAND, CA

Poll: 12128 Lead (TSP)

Probe Ht. (m):

Meas Scale: NEIGHBORHOOD

POC: 7

Monitoring Objective	Sampling Begin Date	Req Samp Freq	Regulation Compliances		Road Description		Monitor Types	
			Regulation	Crit. Met?	Dist (m)	Street Num	Monitor Type	Action Taken
UNKNOWN	19850706						OTHER	

Poll: 42101 Carbon Monoxide

Probe Ht. (m): 7.0

Meas Scale: NEIGHBORHOOD

POC: 1

Monitoring Objective	Sampling Begin Date	Req Samp Freq	Regulation Compliances		Road Description		Monitor Types	
			Regulation	Crit. Met?	Dist (m)	Street Num	Monitor Type	Action Taken
POPULATION EXPOSURE	19700801		SC	Y	130	1	NAMS	APPROVED
			RM	Y			SLAMS	
			QC	Y				

Poll: 42602 Nitrogen Dioxide

Probe Ht. (m): 7.0

Meas Scale: URBAN SCALE

POC: 1

Monitoring Objective	Sampling Begin Date	Req Samp Freq	Regulation Compliances		Road Description		Monitor Types	
			Regulation	Crit. Met?	Dist (m)	Street Num	Monitor Type	Action Taken
POPULATION EXPOSURE	19740101		SC	Y	134	1	NAMS	APPROVED
			RM	Y	28	2	SLAMS	
			QC	Y				

Poll: 44201 Ozone

Probe Ht. (m): 7.0

Meas Scale: NEIGHBORHOOD

POC: 1

Monitoring Objective	Sampling Begin Date	Req Samp Freq	Regulation Compliances		Road Description		Monitor Types	
			Regulation	Crit. Met?	Dist (m)	Street Num	Monitor Type	Action Taken
POPULATION EXPOSURE	19760701		SC	Y	130	1	NAMS	APPROVED
			RM	Y			SLAMS	
			QC	Y				

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
MONITOR NETWORK SUMMARY

Report Request ID: 136030 Report Code: AMP220S May. 17, 2004

GEOGRAPHIC SELECTIONS															
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	EPA					
										Region	Zip Code	Method	Duration	Begin Date	End Date

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS	
Option Type	Option Value

MERGE PDF FILES

YES

SORT ORDER	
Order	Column

- 1 STATE_CODE
- 2 EPA_REGION
- 3 URBAN_AREA
- 4 MONITOR_TYPE
- 5 PARAMETER_CODE

GLOBAL DATES	
Start Date	End Date
2002 06 01	2002 07 15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
MONITOR NETWORK SUMMARY

May. 17, 2004

Monitor Network Summary

CALIFORNIA

Monitor Type: SLAMS
Urbanized Area: SAN FRANCISCO-OAKLAND, CA
Region Name : SAN FRANCISCO

Parameter	Action Type	Count
42101 Carbon Monoxide		3
42602 Nitrogen Dioxide		2
44201 Ozone		6
81102 PM10 Total 0-10um STP		2
88101 PM2.5 - Local Conditions		3

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
FREQUENCY DISTRIBUTION REPORT

Report Request ID: 136026 Report Code: AMP230 May. 17, 2004

GEOGRAPHIC SELECTIONS															
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	EPA					
										Region	Zip Code	Method	Duration	Begin Date	End Date

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS	
Option Type	Option Value
EVENTS PROCESSING	REPORT ALL EVENT RECORDS
SUMMARY CRITERIA	INCLUDE ALL DATA
MERGE PDF FILES	YES
SORT ORDER	
Order	Column
1	STATE_CODE
2	COUNTY_CODE
3	SITE_ID
4	EPA_REGION
5	DATES
6	PARAMETER_CODE
7	POC

GLOBAL DATES		
Start Date	End Date	
2002	2002	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
FREQUENCY DISTRIBUTION REPORT

May. 17, 2004

CALIFORNIA

Site ID: 06-001-1001

AQCR: SAN FRANCISCO BAY AREA

Latitude: +37.535556

County: ALAMEDA

Urban Area: SAN FRANCISCO-OAKLAND, CA

Longitude: -121.960833

City: FREMONT

Location Setting: SUBURBAN

UTM Zone: 10

Support Agency:

Land Use: RESIDENTIAL

Utm Northing: 4154589

Address: 40733 CHAPEL WAY., FREMONT

Utm Easting: 591812

Vertical Meas: 24.0

Site Comments: ARB CODE NO 60-336 ACTIVE 8-70 NO2 DATA FROM THIS SITE BEFORE 1/1/80 HAVE A POSITIVE BIAS OF 14%.

Parameter		POC	Reporting Org		Method of Collection and Analysis				MDL		Duration	EDT	Unit Desc				
Year	Exc Evt	%Obs	#Obs	#Pri	#Sec	Min	Obs	Percentages				Maximum Values	Arith Mean				
81102-PM10 Total 0-10um STP		1		0086		HI-VOL SA/GMW-1200				4	24 HOURS	0	UG/CU METER (25 C)				
2002	0	97	61	0	0	6	10	25	50	75	90	95	98	99	1	2	22.5
88101-PM2.5 - Local Conditions		1		0086		ANDERSON RAAS2.5-300 PM2.5 SEQ				2	24 HOURS	1	UG/CU Meter (LC)				
2002	0	96	94	0	0	2.4	10	25	50	75	90	95	98	99	1	2	13.23
88101-PM2.5 - Local Conditions		1		0086		ANDERSON RAAS2.5-300 PM2.5 SEQ				2	24 HOURS	2	UG/CU Meter (LC)				
2002	2	97	96	0	0	2.4	10	25	50	75	90	95	98	99	1	2	13.12
88101-PM2.5 - Local Conditions		1		0086		ANDERSON RAAS2.5-300 PM2.5 SEQ				2	24 HOURS	3	UG/CU Meter (LC)				
2002	1	97	95	0	0	2.4	10	25	50	75	90	95	98	99	1	2	13.13
88101-PM2.5 - Local Conditions		1		0086		ANDERSON RAAS2.5-300 PM2.5 SEQ				2	24 HOURS	4	UG/CU Meter (LC)				
2002	1	96	95	0	0	2.4	10	25	50	75	90	95	98	99	1	2	13.23
88101-PM2.5 - Local Conditions		1		0086		ANDERSON RAAS2.5-300 PM2.5 SEQ				2	24 HOURS	5	UG/CU Meter (LC)				
2002	2	97	96	0	0	2.4	10	25	50	75	90	95	98	99	1	2	13.12

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
P/A REPORTING ORG SUMMARY

Report Request ID: 136032 Report Code: AMP240 May. 17, 2004

GEOGRAPHIC SELECTIONS															
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	EPA					
										Region	Zip Code	Method	Duration	Begin Date	End Date

06

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

REPORTING ORGANIZATION SELECTIONS	
CALIFORNIA AIR RESOURCES BOARD	

CRITERIA

SELECTED OPTIONS	
Option Type	Option Value

MERGE PDF FILES

YES

SORT ORDER	
Order	Column

1

AGENCY_CODE

2

PARAMETER_CODE

3

DATES

GLOBAL DATES	
Start Date	End Date

2002

2002

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SUBSYSTEM
P/A REPORTING ORG SUMMARY

May. 17, 2004

REPORT ORG: 0145 CALIFORNIA AIR RESOURCES BOARD

AGENCY TYPE: F

PARAMETER

CODE	DESCRIPTION	YEAR	Q	# OF ANALYZRS	PRECISION DATA	****	LOC PRI	AUDIT TYPE	ACC TYPE	NO AUDITS	PROB LIM	PROB LIM	PROB LIM	PROB LIM	PROB LIM
REC MODE	AUDIT CLASS				CHECKS	LO	UP			L1-3	L4	LO-L1-UP	LO-L2-UP	LO-L3-UP	LO-L4-UP
81102	PM10 Total 0-10um STP	2002		3	40	- 3.5	6.0	OTHER FLOW	AUDIT	3	0	-12.4	4.2		
CONTINUOUS								STANDARDS	AND						
FLOW									CERT						
								OTHER FLOW	BY RO						
								STANDARDS	AUDIT	2	0	0.0	0.0		
									AND						
									CERT						
									BY RO						
1			1	5	- 4.1	13.4									
2			1	3	- 8.9	11.1		OTHER FLOW	AUDIT	2	0	0.0	0.0		
								STANDARDS	AND						
									CERT						
									BY RO						
3			3	16	- 0.9	2.7									
4			3	16	- 2.0	3.2		OTHER FLOW	AUDIT	3	0	-12.4	4.2		
								STANDARDS	AND						
									CERT						
									BY RO						
81102	PM10 Total 0-10um STP	2002						NBS SRM	AUDIT	1	0				
INTERMITTENT									NOT BY						
ANALYTICAL									RO						
								NBS SRM	AUDIT	1	0				
									NOT BY						
									RO						
3			3												

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
PRECISION REPORT

Report Request ID: 136033 Report Code: AMP246 May. 17, 2004

GEOGRAPHIC SELECTIONS															
EPA															
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	Region	Zip Code	Method	Duration	Begin Date	End Date
06	001														

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS	
Option Type	Option Value
MERGE PDF FILES	YES
SORT ORDER	
Order	Column
1	PARAMETER_CODE
2	STATE_CODE
3	AGENCY_CODE
4	COUNTY_CODE
5	SITE_ID
6	POC
7	DATES

GLOBAL DATES	
Start Date	End Date
2002 06 01	2002 07 15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
PRECISION REPORT

May. 17, 2004

SINGLE-MONITOR PRECISION CHECKS

PARAMETER	STATE	AGENCY	MONITOR ID	DATE	PREC		MEAS.	METH		UNIT	%DIFF
					ID	ACTUAL		CODE	CODE		
Carbon Monoxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-0005-42101-1	2002/06/02	1	8.9	8.7	054		PPM	-2.2
Carbon Monoxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-0005-42101-1	2002/06/09	1	8.9	8.7	054		PPM	-2.2
Carbon Monoxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-0005-42101-1	2002/06/16	1	8.9	8.7	054		PPM	-2.2
Carbon Monoxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-0005-42101-1	2002/06/23	1	8.9	8.7	054		PPM	-2.2
Carbon Monoxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-0005-42101-1	2002/07/07	1	8.9	8.7	054		PPM	-2.2
Carbon Monoxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-0005-42101-1	2002/07/14	1	8.9	8.8	054		PPM	-1.1
Carbon Monoxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-0007-42101-1	2002/06/05	1	8.4	8.4	054		PPM	.0
Carbon Monoxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-0007-42101-1	2002/06/13	1	8.4	8.5	054		PPM	1.2
Carbon Monoxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-0007-42101-1	2002/06/19	1	8.4	8.5	054		PPM	1.2
Carbon Monoxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-0007-42101-1	2002/06/27	1	8.4	8.5	054		PPM	1.2
Carbon Monoxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-0007-42101-1	2002/07/03	1	8.4	8.5	054		PPM	1.2
Carbon Monoxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-0007-42101-1	2002/07/09	1	8.4	8.5	054		PPM	1.2
Carbon Monoxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-1001-42101-1	2002/06/05	1	8.9	8.8	054		PPM	-1.1
Carbon Monoxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-1001-42101-1	2002/06/13	1	8.9	8.9	054		PPM	.0
Carbon Monoxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-1001-42101-1	2002/06/19	1	8.9	8.9	054		PPM	.0
Carbon Monoxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-1001-42101-1	2002/06/25	1	8.9	8.7	054		PPM	-2.2
Carbon Monoxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-1001-42101-1	2002/07/01	1	9.0	8.8	054		PPM	-2.2
Carbon Monoxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-1001-42101-1	2002/07/09	1	9.0	8.7	054		PPM	-3.3
Carbon Monoxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-1001-42101-1	2002/07/15	1	9.0	8.9	054		PPM	-1.1
Nitrogen Dioxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-0007-42602-1	2002/06/05	1	0.090	0.087	074		PPM	-3.3
Nitrogen Dioxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-0007-42602-1	2002/06/13	1	0.090	0.089	074		PPM	-1.1
Nitrogen Dioxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-0007-42602-1	2002/06/19	1	0.090	0.088	074		PPM	-2.2
Nitrogen Dioxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-0007-42602-1	2002/06/27	1	0.090	0.093	074		PPM	3.3
Nitrogen Dioxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-0007-42602-1	2002/07/03	1	0.090	0.091	074		PPM	1.1
Nitrogen Dioxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-0007-42602-1	2002/07/09	1	0.090	0.088	074		PPM	-2.2
Nitrogen Dioxide	CA	BAY AREA AIR QUALITY MANAGEME	06-001-1001-42602-1	2002/06/05	1	0.091	0.094	074		PPM	3.3

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
ACCURACY REPORT

Report Request ID: 136239 Report Code: AMP247 May. 17, 2004

GEOGRAPHIC SELECTIONS									
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA
EPA									
Region									
Zip Code									
Method									
Duration									
Begin Date									
End Date									

06 001

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS	
Option Type	Option Value
MERGE PDF FILES	
YES	

GLOBAL DATES	
Start Date	End Date
2002 01 01	2002 12 31

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
ACCURACY REPORT

17 May 2004

Parameter: (42602) Nitrogen Dioxide

State: CALIFORNIA

Agency: BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Accuracy Type	Monitor ID	Conc Level	Date	Above Criteria	Unit Desc	Actual Value	Indicated Value	Relative % Diff
PE	06-001-0007-42602-1	3	20020322	N	PPM	.384	.382	-0.5
PE	06-001-0007-42602-1	1	20020716	N	PPM	.070	.071	1.4
PE	06-001-0007-42602-1	2	20020716	N	PPM	.169	.172	1.8
PE	06-001-0007-42602-1	3	20020716	N	PPM	.376	.380	1.1
PE	06-001-1001-42602-1	1	20020124	N	PPM	.076	.078	2.6
PE	06-001-1001-42602-1	2	20020124	N	PPM	.185	.189	2.2
PE	06-001-1001-42602-1	3	20020124	N	PPM	.415	.418	0.7
PE	06-001-1001-42602-1	1	20020731	N	PPM	.077	.079	2.6
PE	06-001-1001-42602-1	2	20020731	N	PPM	.189	.191	1.1
PE	06-001-1001-42602-1	3	20020731	N	PPM	.430	.436	1.4
PE	06-001-1001-42602-1	1	20021105	N	PPM	.066	.067	1.5
PE	06-001-1001-42602-1	2	20021105	N	PPM	.182	.184	1.1
PE	06-001-1001-42602-1	3	20021105	N	PPM	.384	.386	0.5

Parameter: (44201) Ozone

State: CALIFORNIA

Agency: BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Accuracy Type	Monitor ID	Conc Level	Date	Above Criteria	Unit Desc	Actual Value	Indicated Value	Relative % Diff
PE	06-001-0005-44201-1	1	20020405	N	PPM	.070	.068	-2.9
PE	06-001-0005-44201-1	2	20020405	N	PPM	.169	.168	-0.6
PE	06-001-0005-44201-1	3	20020405	N	PPM	.385	.383	-0.5
PE	06-001-0005-44201-1	1	20020917	N	PPM	.071	.071	0.0
PE	06-001-0005-44201-1	2	20020917	N	PPM	.168	.170	1.2
PE	06-001-0005-44201-1	3	20020917	N	PPM	.385	.388	0.8
PE	06-001-0005-44201-1	1	20021030	N	PPM	.070	.070	0.0
PE	06-001-0005-44201-1	2	20021030	N	PPM	.168	.169	0.6
PE	06-001-0005-44201-1	3	20021030	N	PPM	.388	.389	0.3
PE	06-001-0005-44201-1	1	20021112	N	PPM	.069	.069	0.0

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
P/A RAW DATA REPORT

Report Request ID: 136031 Report Code: AMP250 May. 17, 2004

GEOGRAPHIC SELECTIONS															
EPA															
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	Region	Zip Code	Method	Duration	Begin Date	End Date

06 001

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS	
Option Type	Option Value
P/A DATA TYPE	PRECISION AND ACCURACY DATA
MERGE PDF FILES	YES
SORT ORDER	
Order	Column
1	STATE_CODE
2	REP_ORG
3	COUNTY_CODE
4	SITE_ID
5	PARAMETER_CODE
6	POC
7	DATES

GLOBAL DATES	
Start Date	End Date
2002 06 01	2002 07 15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SUBSYSTEM
P/A RAW DATA REPORT

May. 17, 2004

CALIFORNIA

Site: 06-001-0005

County: ALAMEDA

City: OAKLAND

AQCR: SAN FRANCISCO BAY AREA

Address: 822 ALICE ST., OAKLAND

Site Comments: ARB SITE NUMBER 6000339 NEW SITE OCTOBER 1980

Reporting Organization: 0086 BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Monitor ID: 06-001-0005-42101-1 Parameter: 42101 Carbon Monoxide

Urban Area: SAN FRANCISCO-OAKLAND, CA
Land Use: COMMERCIAL
Location Setting: URBAN AND CENTER CITY
Vertical Meas: 7.0

Latitude: 37.799444
Longitude: -122.266667
UTM Zone: 10
UTM Northing: 4183611
UTM Easting: 564561

***** PRECISION DATA *****

Units: PPM

Duration: 1 HOUR		Actual Method: 054 INSTRUMENTAL\NONDISPERSIVE INFRARED		Indicated Method		Indicated		Actual	
Date	Prec ID								
20020602	1	8.9		8.7		054 INSTRUMENTAL\NONDISPERSIVE INFRARED			
20020609	1	8.9		8.7		054 INSTRUMENTAL\NONDISPERSIVE INFRARED			
20020616	1	8.9		8.7		054 INSTRUMENTAL\NONDISPERSIVE INFRARED			
20020623	1	8.9		8.7		054 INSTRUMENTAL\NONDISPERSIVE INFRARED			
20020707	1	8.9		8.7		054 INSTRUMENTAL\NONDISPERSIVE INFRARED			
20020714	1	8.9		8.8		054 INSTRUMENTAL\NONDISPERSIVE INFRARED			

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
REDUCED FREQUENCY DISTR REPORT

Report Request ID: 136039 Report Code: AMP260 May. 17, 2004

GEOGRAPHIC SELECTIONS															
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	EPA					
										Region	Zip Code	Method	Duration	Begin Date	End Date

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS	
Option Type	Option Value

EVENTS PROCESSING REPORT ALL EVENT RECORDS
SUMMARY CRITERIA INCLUDE ALL DATA
MERGE PDF FILES YES

SORT ORDER	
Order	Column

1 PARAMETER_CODE
2 STATE_CODE
3 COUNTY_CODE
4 SITE_ID
5 DATES

GLOBAL DATES	
Start Date	End Date

2002 2002

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

REDUCED FREQUENCY DISTR REPORT

May. 17, 2004

Parameter: (42101) Carbon Monoxide
State: (06 CALIFORNIA

County - Site		Duration	EDT	PCT/	County		Percentiles										Max	2nd	Min	Arith
Year	POC	Unit	Agency	Type	NBR	Obs										Val	Mean /	STD		
001-0005																				
ALAMEDA																				
2002	1	1 HOUR	0	96.71	10	25	50	75	90	95	98	99	1	2		.3		.66		
		PPM	I	8472	.3	.3	.5	.8	1.3	1.7	2.2	2.6	4.4	4.0				.51		
1	1	8-HR RUN AVG	0		10	25	50	75	90	95	98	99	1	1		.3				
		END HOUR	I	8545	.3	.3	.5	.8	1.3	1.6	2.0	2.1	3.3	3.3						
		PPM																		
001-0007																				
ALAMEDA																				
2002	1	1 HOUR	0	95.23	10	25	50	75	90	95	98	99	1	2		.3		.55		
		PPM	I	8342	.3	.3	.3	.7	1.2	1.5	1.9	2.3	4.8	4.5				.47		
1	1	8-HR RUN AVG	0		10	25	50	75	90	95	98	99	1	1		.3				
		END HOUR	I	8691	.3	.3	.4	.7	1.1	1.4	1.6	1.8	2.5	2.5						
		PPM																		
001-0010																				
ALAMEDA																				
2002	1	1 HOUR	0	90	10	25	50	75	90	95	98	99	1	2		.3		.73		
		PPM	F	7844	.3	.3	.5	.8	1.7	2.5	3.4	4.1	7.7	7.6				.81		
1	1	8-HR RUN AVG	0		10	25	50	75	90	95	98	99	1	1		.3				
		END HOUR	F	8092	.3	.3	.5	.8	1.6	2.2	2.9	3.3	5.1	5.1						
		PPM																		
001-1001																				
ALAMEDA																				
2002	1	1 HOUR	0	90.25	10	25	50	75	90	95	98	99	1	2		.3		.52		
		PPM	I	7906	.3	.3	.3	.7	1.0	1.3	1.7	2.0	3.7	3.6				.41		
1	1	8-HR RUN AVG	0		10	25	50	75	90	95	98	99	1	1		.3				
		END HOUR	I	8241	.3	.3	.4	.7	1.0	1.2	1.4	1.6	2.2	2.2						
		PPM																		

AN ASTERISK (*) WITH A ARITH MEAN VALUE INDICATES THE MEAN DID NOT MEET ANNUAL CRITERIA.

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

VIOLATION DAY COUNT REPORT

Report Request ID: 136043 Report Code: AMP300 May. 17, 2004

GEOGRAPHIC SELECTIONS									
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA
EPA									
Region									
Zip Code									
Method									
Duration									
Begin Date									
End Date									

06 001

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS	
Option Type	Option Value

MERGE PDF FILES YES

SINGLE EVENT PROCESSING INCLUDE EVENTS

GLOBAL DATES	
Start Date	End Date

2002 01 01 2002 12 31

VIOLATION DAY COUNT REPORT

May. 17, 2004

Ozone (44201)

PPM (007)

8-HR RUN AVG BEGIN HOUR (W)

2002

STATE: CALIFORNIA

MSA: (5775) Oakland, CA

SITE ID	POC	COUNTY NAME	DATE OF VIOLATION	MAXIMUM VIOLATION VALUE	EXCEPT DATA?	NUMBER OF PRIMARY VIOLATIONS	NUMBER OF SECONDARY VIOLATIONS
06-001-0007	1	ALAMEDA	2002/07/01	.086	0	1	1
			2002/07/09	.095	0	5	5
			2002/07/10	.106	0	6	6
			2002/08/09	.096	0	5	5
			2002/08/10	.086	0	3	3
			2002/09/01	.088	0	2	2
SUMMARY FOR SITE			06-001-0007	POC	1	YEAR	2002
			MAXIMUM VIOLATION VALUE				.106

VIOLATION DAYS
PRIMARY VIOLATIONS
SECONDARY VIOLATIONS
VALID DAYS MONITORED

6
22
22
360

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

Report Request ID: 136038 Report Code: AMP350 May. 17, 2004

GEOGRAPHIC SELECTIONS															
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	EPA					
										Region	Zip Code	Method	Duration	Begin Date	End Date

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS	
Option Type	Option Value
INCLUDE NULLS	YES
DAILY STATISTICS	MAXIMUM
UNITS	STANDARD
RAW DATA EVENTS	INCLUDE EVENTS
MERGE PDF FILES	YES
SORT ORDER	
Order	Column
1	STATE_CODE
2	COUNTY_CODE
3	SITE_ID
4	PARAMETER_CODE
5	POC

GLOBAL DATES	
Start Date	End Date
2002 06 01	2002 07 15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

May. 17, 2004

(42101) Carbon Monoxide

SITE ID: 06-001-0005 POC: 1
COUNTY: (001) ALAMEDA
CITY: (53000) OAKLAND
SITE ADDRESS: 822 ALICE ST., OAKLAND
SITE COMMENTS: ARB SITE NUMBER 6000339 NEW SITE OCTOBER 1980
MONITOR COMMENTS: 11

STATE: (06) CALIFORNIA
AOCR: (030) SAN FRANCISCO BAY AREA
URBANIZED AREA: (7360) SAN FRANCISCO-OAKLAND, CA
LAND USE: COMMERCIAL
LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 630-08-0
LATITUDE: 37.799444
LONGITUDE: -122.266667
UTM ZONE: 10
UTM NORTHING: 4183611
UTM EASTING: 564561
ELEVATION-MSL: 0
PROBE HEIGHT: 6

SUPPORT AGENCY: (0086) BAY AREA AIR QUALITY MANAGEMENT DISTRICT
MONITOR TYPE: SLAMS
COLLECTION AND ANALYSIS METHOD: (008) INSTRUMENTAL NONDISPERSIVE INFRARE
REPORTING ORG: (0086) BAY AREA AIR QUALITY MANAGEMENT DISTRICT

REPORT FOR: JUNE 2002
DURATION: 1 HOUR
UNITS: PPM
MIN DETECTABLE: .5

HOUR		DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM
	1		.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	24	.3
	2		.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	24	.3
	3		.3	.3	.3	.3	.3	.3	.3	.5	.5	.3	.3	.3	.5	.3	.3	.5	.5	.5	.3	.3	.3	.5	.3	.3	24	.5
	4		.3	.3	.3	.3	.3	.7	.6	.6	.5	.5	.5	.5	.6	.6	.6	.6	.6	.6	.5	.5	.5	.3	.3	.3	24	.7
	5		.3	.3	.3	.6	.6	1.0	.9	1.1	1.0	.7	.7	.7	.8	.6	.7	.7	.7	.7	.6	.5	.6	.5	.3	.3	24	1.1
	6		.3	.3	.3	.3	.3	.6	.8	.9	.8	.7	.7	.6	.5	.5	.5	.5	.5	.5	.5	.3	.3	.3	.3	.3	23	.9
	7		.3	.3	.3	.3	.3	.3	.5	.5	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.5	.3	24	.5
	8		.3	.3	.3	.3	.3	.3	.6	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	24	.6
	9		.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.6	.5	.3	24	.6
	10		.3	.3	.3	.3	.3	.5	.5	.6	.5	.3	.3	.3	.3	.3	.3	.5	.5	.5	.5	.3	.6	.8	1.0	.9	24	1.0
	11		.9	.9	.7	.5	.5	.8	.6	.5	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	24	.9
	12		.3	.3	.3	.3	.3	.3	.3	.3	.5	.3	.3	.3	.3	.3	.3	.5	.3	.3	.3	.3	.3	.3	.3	.3	24	.5
	13		.3	.3	.3	.3	.3	.3	.3	.3	.5	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	23	.5
	14		.3	.3	.3	.3	.3	.3	.5	.5	.3	.3	.3	.3	.3	.3	.3	.3	.5	.5	.3	.3	.3	.3	.3	.3	24	.5
	15		.3	.3	.3	.3	.3	.3	.3	.3	.5	.3	.5	.3	.3	.3	.3	.3	.3	.3	.5	.3	.5	.5	.3	.3	24	.5
	16		.3	.3	.3	.3	.3	.3	.3	.5	.5	.6	.5	.3	.3	.3	.3	.3	.3	.3	.3	.3	.6	.3	.3	.3	24	.6
	17		.3	.3	.3	.3	.3	.3	.6	.3	.3	.3	.3	.3	.3	.3	.5	.5	.5	.6	.6	.5	.5	.3	.3	.3	24	.6
	18		.3	.3	.3	.3	.5	.5	.7	.6	.5	.3	.3	.3	.3	.3	.3	.5	.5	.5	.3	.3	.3	.3	.3	.3	24	.7
	19		.3	.3	.3	.3	.3	.3	.7	.5	.3	.3	.6	.5	.5	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	24	.7
	20		.3	.3		.3	.3	.3	.5	.3	.3	.3	.3	.3	.3	.3	.3	.3	.5	.3	.3	.3	.3	.3	.3	.3	23	.5
	21		.3	.3	.3	.3	.3	.3	.5	.5	.3	.3	.3	.3	.3	.3	.5	.5	.6	.5	.3	.3	.3	.3	.3	.3	24	.6
	22		.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	23	.3
	23		.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	24	.3
	24		.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.5	.5	.3	.5	.5	.6	.5	.5	.5	.3	.3	.3	.3	23	.6
	25		.3	.3	.3	.3	.3	.3	.3	.3	.5	.6	.5	.5	.5	.5	.5	.5	.5	.5	.3	.3	.3	.3	.3	.3	24	.6
	26		.3	.3	.3	.3	.3	.3	.3	.5	.5	.3	.3	.3	.3	.3	.3	.3	.3	.5	.3	.3	.3	.3	.3	.3	24	.5
	27		.3	.3	.3	.3	.3	.3	.6	.5	.5	.3	.3	.3	.3	.3	.5	.5	.5	.5	.3	.3	.3	.3	.3	.3	23	.6
	28		.3	.3	.3	.3	.3	.3	.5	.5	.5	.3	.3	.3	.3	.3	.3	.5	.5	.5	.5	.5	.3	.3	.3	.3	22	.5
	29		.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.5	.5	.5	.5	.3	.5	.5	.3	.3	24	.5
	30		.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.5	.6	.5	.5	.5	.5	.5	.5	.5	.5	.3	.3	.3	24	.6
	31																										0	

NO.:	30	30	26	29	30	30	30	30	28	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
MAX:	.9	.9	.7	.6	.6	1.0	.9	1.1	1.0	.7	.7	.8	.6	.7	.7	.7	.7	.7	.6	.5	.6	.8	1.0	.9		
AVG:	.27	.27	.27	.27	.28	.34	.43	.44	.39	.32	.33	.33	.30	.34	.39	.42	.40	.34	.30	.34	.32	.29	.27			

MONTHLY OBSERVATIONS: 712 MONTHLY MEAN: .33 MONTHLY MAX: 1.1
Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (**) indicates that the region has reviewed the value and does not concur with the qualifier.

RAW DATA MAX VALUES REPORT

GEOGRAPHIC SELECTIONS

PROTOCOL SELECTIONS			
Parameter			
Classification	Parameter	Method	Duration

SELECTED OPTIONS

GLOBAL DATES		
Start Date	End Date	
2002 01 01	2002 12 31	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA MAX VALUES REPORT

(42101) Carbon Monoxide

SITE ID: 06-001-0005 POC: 1
COUNTY: (001) ALAMEDA
CITY: (53000) OAKLAND
SITE ADDRESS: 822 ALICE ST., OAKLAND
SITE COMMENTS: ARB SITE NUMBER 6000339 NEW SITE OCTOBER 1980
MONITOR COMMENTS: 11

STATE: (06) CALIFORNIA
AOCR: (030) SAN FRANCISCO BAY AREA
URBANIZED AREA: (7360) SAN FRANCISCO-OAKLAND, CA
LAND USE: COMMERCIAL
LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 630-08-0
LATITUDE: 37.799444
LONGITUDE: -122.266667
UTM ZONE: 10
UTM NORTHING: 4183611
UTM EASTING: 564561
ELEVATION-MSL: 0
PROBE HEIGHT: 6

May. 17, 2004

SUPPORT AGENCY: (0086) BAY AREA AIR QUALITY MANAGEMENT DISTRICT

MONITOR TYPE: SLAMS

REPORT FOR: 2002

DURATION: 1 HOUR

COLLECTION AND ANALYSIS METHOD: (008) INSTRUMENTAL NONDISPERSIVE INFRARE

UNITS: PPM

REPORTING ORG: (0086) BAY AREA AIR QUALITY MANAGEMENT DISTRICT

MIN DETECTABLE: .5

MONTH

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	1.9	2.4	2.0	1.3	.5	.3	1.4	.6	2.1	1.0	2.8	2.9
2	1.2	2.7	2.1	.7		.3	.3	.6	2.2	1.1	3.2	3.4
3	3.0	3.1	2.2	.6		.5	.5	.7	.7	2.4	3.5	3.0
4	2.6	3.3	1.9	.7		.7	.5	.3	.5	1.3	2.0	3.7
5	2.9	3.7	1.7	.7		1.1	.5	.7	.6	2.2	1.7	2.1
6	2.6	1.7	.8	.5		.9	.3	.7	.7	2.5	2.3	3.0
7	4.4	1.2	1.0	.5		.5	.5	1.0	.3	1.7	.8	4.0
8	3.4	2.3	1.8	.5	.7	.6	.8	1.5	.6	1.9	.8	2.2
9	1.7	2.1	1.4	.7	.7	.6	1.5	1.9	1.0	.7	1.0	1.3
10	2.3	2.7	1.8	.6	.5	1.0	1.2	2.1	1.2	.9	1.2	2.0
11	2.7	3.2	1.8	1.0	.7	.9	.6	.5	.8	1.6	1.5	1.7
12	2.0	3.0	.7	.8	.6	.5	.6	.7	.8	1.6	1.4	1.7
13	2.9	1.6	.7	.8	.5	.5	.3	.7	.6	1.3	1.1	.7
14	1.1	2.1	.8	.5	.6	.5	.3	.8	.6	1.2	2.1	.3
15	2.4	.7	1.1	.5	.6	.5	.5	.6	.3	1.0	1.9	.5
16	2.0	.7	.5	.6	.7	.6	.6	.7	.7	1.0	2.1	.7
17	2.8	.9	.6	.5	.5	.6	.5	.5	.7	1.0	1.8	1.6
18	3.1	1.0	2.0	.6	.3	.7	.6	.6	1.8	.7	2.4	2.1
19	2.6	1.0	1.7	.8	.5	.7	.6	.7	2.7	.8	2.9	1.2
20	2.4	1.0	1.9	.6	.6	.5	.5	.6	.8	1.0	3.5	1.3
21	1.5	2.0	1.0	.8	.7	.6	.3	.6	.6	1.6	2.3	1.1
22	1.0	2.5	.8	1.8	.9	.3	.8	.7	.7	.8	.7	.7
23	2.8	1.0	.6	1.7	1.1	1.1	1.1	.7	.9	1.0	.8	2.3
24	3.2	1.7	.6	1.0	1.2	.6	.6	.6	.6	1.1	1.2	2.1
25	3.1	2.2	.9	.7	.5	.6	.5	.6	.8	1.1	1.5	1.4
26	1.8	2.5	1.6	.6	.3	.5	.5	1.6	.8	1.2	2.2	.8
27	2.1	2.8	2.0	.3	.7	.6	.3	1.7	.7	1.7	3.0	1.2
28	1.2	2.6	1.6	.9	.5	.5	.3	.7	.5	1.8	2.5	.7
29	1.7	.9	.9	.5	.7	.5	.6	.6	1.0	1.4	3.0	2.2
30	3.0	.8	.8	1.0	.8	.6	.6	.8	.8	1.6	3.3	1.2
31	3.2	.7	.7		.7		.5	1.0		2.5	1.4	1.4
NO.:	31	28	31	30	25	30	31	31	30	31	30	31
MAX:	4.4	3.7	2.2	1.8	1.2	1.1	1.5	2.1	2.7	2.5	3.5	4.0
MEAN:	2.41	2.06	1.26	.76	.62	.58	.59	.84	.90	1.38	2.02	1.76
ANNUAL OBSERVATIONS:	359		ANNUAL MEAN:	1.27	ANNUAL MAX:	4.4						

Note: A plus sign ("+") following a value indicates that the computed average includes one or more raw data values effected by a special event.

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA NAAQS AVERAGES

Report Request ID: 136037 Report Code: AMP350NW May. 17, 2004

GEOGRAPHIC SELECTIONS															
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	EPA					
										Region	Zip Code	Method	Duration	Begin Date	End Date

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS	
Option Type	Option Value

DAILY STATISTICS
SINGLE EVENT PROCESSING
MERGE PDF FILES

Order	Column
1	STATE_CODE
2	COUNTY_CODE
3	SITE_ID
4	PARAMETER_CODE
5	POC

GLOBAL DATES	
Start Date	End Date
2002 06 01	2002 07 15

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
SITE DESCRIPTION REPORT

Report Request ID: 136040 Report Code: AMP380 May. 17, 2004

GEOGRAPHIC SELECTIONS															
EPA															
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	Region	Zip Code	Method	Duration	Begin Date	End Date

06 001

SELECTED OPTIONS	
Option Type	Option Value

MERGE PDF FILES

YES

SORT ORDER	
Order	Column

- | | |
|---|-------------|
| 1 | STATE_CODE |
| 2 | COUNTY_CODE |
| 3 | SITE_ID |
| 4 | EPA_REGION |

GLOBAL DATES	
Start Date	End Date
2002 01 01	2002 12 31

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
SITE DESCRIPTION REPORT

May. 17, 2004

Site ID: 06-001-0003

Street Address: 2614 OLD 1ST ST., LIVERMORE

State: CALIFORNIA

Location Description: MONITORING POINT

Coll. Method: UNKNOWN

Date Established: 19800101

Regional Eval. Date:

MSA: Oakland, CA

Type Met Site:

Urban Area: SAN FRANCISCO-OAKLAND, CA

City Population: 48349

Census Block:

Congressional District:

Site Latitude: +37.685000

UTM Zone: 10

Accuracy: 0

Vertical Measure (m) : 145.0

Vert Datum UNKNOWN

Site Name:

Zip Code:

Date Terminated:

HQ Eval. Date: 19880927

CMSA: San Francisco-Oakland-San Jose, CA

Dist to Met. Site (m):

Dir. to CBD:

Block Group:

Site Longitude: -121.766111

UTM Northing: 4171377

Datum: UNKNOWN

City: LIVERMORE

County: ALAMEDA

Location Setting: URBAN AND CENTER CITY

Land Use: COMMERCIAL

Last Updated:

AQCR : SAN FRANCISCO BAY AREA

Direct Met Site:

Local Region: SAN FRANCISCO

EPA Region: SAN FRANCISCO

Dist. to City(km):

Census Tract:

Class 1 Area:

Time Zone: PACIFIC

UTM Easting: 608799

Scale: 0

Vert Accuracy: 0

Vert Method: UNKNOWN

Local ID:

Met. Site ID:

ARB SITE NUMBER 6000340 NEW SITE

SITE COMMENTS

ACTIVE MONITOR TYPES		AGENCY ROLES	
Monitor Type	# of Monitors	Role	Agency Desc
NAMS	1	SUPPORTING	BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Begin Date

End Date

Road Number	Road Name	TANGENT ROADS		Road Type	Compass Sector
		Traffic Count	Traffic Year		
1	OLD FIRST STREET	5445	1981	LOCAL ST OR HY	SE
2	FIRST STREET	23000	1981	ARTERIAL	SE
3	LIVERMORE	10500	1981	MAJ ST OR HY	W

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
MONITOR DESCRIPTION REPORT

Report Request ID: 136028 Report Code: AMP390 May. 17, 2004

GEOGRAPHIC SELECTIONS															
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	EPA					
										Region	Zip Code	Method	Duration	Begin Date	End Date

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS	
Option Type	Option Value

MERGE PDF FILES

YES

SORT ORDER	
Order	Column
1	STATE_CODE
2	COUNTY_CODE
3	SITE_ID
4	EPA_REGION
5	PARAMETER_CODE
6	POC

GLOBAL DATES	
Start Date	End Date
2002 06 01	2002 07 15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
MONITOR DESCRIPTION REPORT

May. 17, 2004

CALIFORNIA

Monitor ID: 06-001- 0003 -44201 - 1	Parameter Measured: 44201
Date of Latest Collection: 20001207	Last Updated: 20040206
Owner: BAY AREA AQMD, CA	City: LIVERMORE
Street Address: 2614 OLD 1ST ST., LIVERMORE	
Site Name:	MSA: Oakland,CA
County: ALAMEDA	UAR: SAN FRANCISCO-OAKLAND, CA
Project Type: POPULATION-ORIENTED SURVEILLANCE	Dominant Source: AREA
Meas. Scale: URBAN SCALE	Location Setting: URBAN AND CENTER CITY
Probe Location:	Horizontal Distance (m):
Probe Height (m): 8.0	Vertical Distance (m):
Surrogate?:	Unrestricted Air Flow?:
Sample Residence Time:	

MONITOR COMMENT

14

DATES OF OPERATION		AGENCY ROLES			
Begin Date	End Date	Agency Role	Agency Name	Begin Date	End Date
19810201		ANALYZING	BAY AREA AIR QUALITY MANAGEMENT DISTRICT		
		REPORTING	BAY AREA AIR QUALITY MANAGEMENT DISTRICT	19810201	
		COLLECTING	BAY AREA AIR QUALITY MANAGEMENT DISTRICT		

MONITOR TYPE INFORMATION				
Monitor Type	Begin Date	End Date	Action Type	Action Reason
NAMS	19810201		APPROVED	
SLAMS	19810201			

REGULATION INFORMATION

Regulation	Met?	Date Met
Quality Assurance Criteria Met	Y	19810201
Reference Method Used	Y	19810201
Siting Criteria Met	Y	19810201

TANGENT ROAD INFORMATION		Traff	Traff	
Street Name	Type Road	Count	Yr	Dist. to Road (m)
OLD FIRST STREET	LOCAL ST OR HY	5445	1981	63
FIRST STREET	ARTERIAL	23000	1981	94
LIVERMORE	MAJ ST OR HY	10500	1981	396

MONITORING OBJECTIVES

Monitor Objective Type	UAR Name	MSA Name	CMSA Name
HIGHEST CONCENTRATION	SAN FRANCISCO-OAKLAND, CA		

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
AIR QUALITY INDEX REPORT

Report Request ID: 136020 Report Code: AMP410 May. 17, 2004

GEOGRAPHIC SELECTIONS												
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	Region	Zip Code	Method
06	001									EPA		

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS	
Option Type	Option Value
DATA GROUPING	GROUP BY MSA
MERGE PDF FILES	YES

GLOBAL DATES	
Start Date	End Date
2002 06 01	2002 07 15

SORT ORDER	
Order	Column
1	GEOGRAPHY
2	DATES

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
AIR QUALITY INDEX REPORT

May. 17, 2004

MSA: Oakland,CA

***** CRITICAL POLLUTANT *****										***** OTHER POLLUTANTS *****									
DATE	DESCRIPTOR	POLLUTANT	AQI VALUE	SITE ID	TOTAL SITES	DUR CODE	POLLUTANT	SUBINDEX	SITE ID	TOTAL SITES	DUR CODE	DATE	DESCRIPTOR	POLLUTANT	AQI VALUE	SITE ID	TOTAL SITES	DUR CODE	DATE
20020601	GOOD	Ozone	32	06-001-0007	12	W	PM2.5 - Local Condit	31	06-001-0007	2	7								
							PM10 Total 0-10um S:	26	06-001-0007	2	7								
							Carbon Monoxide	8	06-001-0010	4	Z								
							Sulfur Dioxide	1	06-001-0010	1	X								
20020602	GOOD	Ozone	30	06-001-0007	12	W	Carbon Monoxide	8	06-001-0010	4	Z								
							Sulfur Dioxide	1	06-001-0010	1	X								
20020603	GOOD	Ozone	28	06-001-0007	12	W	Carbon Monoxide	8	06-001-0010	4	Z								
							Sulfur Dioxide	1	06-001-0010	1	X								
20020604	GOOD	Ozone	45	06-001-0007	12	W	Carbon Monoxide	14	06-001-0010	4	Z								
							Sulfur Dioxide	3	06-001-0010	1	X								
20020605	GOOD	Ozone	43	06-001-0007	12	W	Carbon Monoxide	16	06-001-0010	4	Z								
							Sulfur Dioxide	4	06-001-0010	1	X								
20020606	GOOD	Ozone	39	06-001-0007	12	W	Carbon Monoxide	14	06-001-0010	4	Z								
							Sulfur Dioxide	3	06-001-0010	1	X								
20020607	MODERATE	PM2.5 - Local Con	52	06-001-1001	2	7	PM10 Total 0-10um S:	39	06-001-1001	2	7								
							Ozone	27	06-001-0007	12	W								
							Carbon Monoxide	9	06-001-0010	4	Z								
							Sulfur Dioxide	1	06-001-0010	1	X								
20020608	GOOD	Ozone	39	06-001-0007	12	W	Carbon Monoxide	10	06-001-0010	4	Z								
							Sulfur Dioxide	1	06-001-0010	1	X								
20020609	GOOD	Ozone	38	06-001-0006	12	W	Carbon Monoxide	11	06-001-0010	4	Z								
							Sulfur Dioxide	3	06-001-0010	1	X								
20020610	GOOD	Ozone	41	06-001-0006	12	W	Carbon Monoxide	17	06-001-0010	4	Z								
							Sulfur Dioxide	4	06-001-0010	1	X								
20020611	MODERATE	Ozone	54	06-001-0007	12	W	Carbon Monoxide	19	06-001-0010	4	Z								
							Sulfur Dioxide	7	06-001-0010	1	X								
20020612	GOOD	Ozone	33	06-001-1001	12	W	Carbon Monoxide	9	06-001-0010	4	Z								
							Sulfur Dioxide	6	06-001-0010	1	X								

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
AIR QUALITY SUMMARY REPORT

Report Request ID: 136023 Report Code: AMP410S May. 17, 2004

GEOGRAPHIC SELECTIONS									
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA
EPA									
Region									
Zip Code									
Method									
Duration									
Begin Date									
End Date									

06 001

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS	
Option Type	Option Value

DATA GROUPING GROUP BY MSA
MERGE PDF FILES YES

GLOBAL DATES	
Start Date	End Date

2002 01 01 2002 12 31

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
AIR QUALITY SUMMARY REPORT

May. 17, 2004

MSA: Oakland, CA

	YEAR:												2002
	JAN 2002	FEB 2002	MAR 2002	APR 2002	MAY 2002	JUN 2002	JUL 2002	AUG 2002	SEP 2002	OCT 2002	NOV 2002	DEC 2002	
01	14 T	95 F	30 F	32 M	33 W	32 S	104 M	44 H	109 U	30 T	57 F	152 U	
02	14 W	19 S	33 S	61 T	32 H	30 U	41 T	26 F	97 M	31 W	64 S	137 M	
03	24 H	24 U	43 U	31 W	33 F	28 M	28 W	58 S	52 T	38 H	64 U	129 T	
04	24 F	55 M	38 M	28 H	38 S	45 T	33 H	52 U	50 W	47 F	45 M	146 W	
05	70 S	94 T	26 T	23 F	39 U	43 W	23 F	51 M	31 H	53 S	73 T	146 H	
06	83 U	22 W	24 W	30 S	32 M	39 H	30 S	37 T	34 F	47 U	50 W	162 F	
07	47 M	28 H	28 H	29 U	38 T	52 F	19 U	70 W	33 S	57 M	27 H	160 S	
08	63 T	27 F	27 F	28 M	38 W	39 S	41 M	71 H	53 U	53 T	32 F	155 U	
09	15 W	27 S	29 S	18 T	35 H	38 U	127 T	129 F	43 M	44 W	37 S	107 M	
10	20 H	72 U	32 U	23 W	30 F	41 M	154 W	104 S	56 T	33 H	53 U	55 T	
11	71 F	27 M	20 M	23 H	40 S	54 T	66 H	74 U	45 W	45 F	48 M	65 W	
12	25 S	24 T	27 T	29 F	50 U	33 W	54 F	96 M	34 H	63 S	61 T	78 H	
13	24 U	62 W	31 W	37 S	38 M	30 H	34 S	85 T	25 F	58 U	63 W	26 F	
14	88 M	75 H	28 H	41 U	33 T	31 F	34 U	75 W	35 S	65 M	55 H	32 S	
15	25 T	29 F	33 F	36 M	29 W	36 S	22 M	53 H	20 U	48 T	103 F	31 U	
16	25 W	27 S	34 S	36 T	31 H	30 U	24 T	63 F	23 M	44 W	122 S	40 M	
17	102 H	30 U	33 U	34 W	34 F	30 M	24 W	61 S	38 T	51 H	64 U	25 T	
18	43 F	28 M	31 M	31 H	40 S	21 T	15 H	93 U	46 W	43 F	57 M	22 W	
19	42 S	20 T	33 T	34 F	33 U	37 W	34 F	68 M	79 H	52 S	88 T	32 H	
20	78 U	19 W	26 W	38 S	32 M	35 H	40 S	64 T	64 F	54 U	125 W	25 F	
21	23 M	16 H	46 H	43 U	36 T	29 F	27 U	58 W	56 S	70 M	159 H	38 S	
22	22 T	52 F	27 F	47 M	32 W	27 S	26 M	53 H	82 U	31 T	91 F	33 U	
23	49 W	33 S	32 S	46 T	40 H	23 U	30 T	35 F	54 M	28 W	62 S	35 M	
24	38 H	23 U	34 U	30 W	42 F	27 M	28 W	58 S	61 T	32 H	71 U	57 T	
25	32 F	27 M	25 M	37 H	34 S	34 T	26 H	32 U	66 W	47 F	52 M	102 W	
26	57 S	30 T	31 T	38 F	25 U	23 W	41 F	59 M	49 H	51 S	32 T	22 H	
27	23 U	23 W	33 W	37 S	21 M	17 H	39 S	71 T	39 F	61 U	67 W	20 F	
28	26 M	32 H	30 H	43 U	23 T	23 F	38 U	63 W	32 S	58 M	134 H	32 S	
29	22 T		29 F	38 M	32 W	16 S	47 M	52 H	33 U	40 T	119 F	32 U	
30	20 W		60 S	34 T	21 H	45 U	57 T	58 F	44 M	23 W	128 S	30 M	
31	25 H		39 U	37 F		51 W		79 S		59 H		58 T	

No. of Days with AQI Values:	Good < or = 50 249	Moderate 51-100 92	Unhealthy for Sensitive Groups 101-150 18	Unhealthy 151-200 6	Very Unhealthy 201-300 0	-----Hazardous----- >301 0
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Highest AQI/YR = 162 Total Days with AQI Values = 365

Days CO =21 Days O3 =190 Days SO2 =0 Days NO2 =0 Days PM2.5 = 154 Days PM10 = 0

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
DATA COMPLETENESS REPORT

Report Request ID: 136025 Report Code: AMP430 May. 17, 2004

GEOGRAPHIC SELECTIONS															
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	EPA					
										Region	Zip Code	Method	Duration	Begin Date	End Date

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS	
Option Type	Option Value
OZONE EVALUATION	SEASONAL-DAILY
MERGE PDF FILES	YES
SORT ORDER	
Order	Column
1	EPA_REGION
2	STATE_CODE
3	MONITOR_TYPE
4	COUNTY_CODE
5	SITE_ID
6	PARAMETER_CODE
7	POC

GLOBAL DATES	
Start Date	End Date
2002 06	2002 07

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
DATA COMPLETENESS REPORT

May. 17, 2004

MONITORS REPORTING

DATE RANGE: JUN. 01, 2002 THRU JUL. 31, 2002
REGION: (09) SAN FRANCISCO
STATE: CALIFORNIA

REPORTING ORGANIZATION: BAY AREA AIR QUALITY MANAGEMENT DISTRICT
MONITOR TYPE: NAMS

SITE ID CITY ADDRESS	PARAMETER	POC	DURATION METHOD	OBSERVATIONS											
				NUMBER / PERCENT											
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
06-001-1001	42101 Carbon Monoxide	1	1						684	696					
FREMONT			054						95%	94%					
40733 CHAPEL WAY., FREMONT															
06-001-1001	42602 Nitrogen Dioxide	1	1						684	696					
FREMONT			074						95%	94%					
40733 CHAPEL WAY., FREMONT															
06-001-1001	44201 Ozone	1	1						30	30					
FREMONT			047						100%	97%					
40733 CHAPEL WAY., FREMONT															
06-001-1001	81102 PM10 Total 0-10um STP	1	7						5	6					
FREMONT			063						100%	100%					
40733 CHAPEL WAY., FREMONT															

May. 17, 2004

MONITORS REPORTING

DATE RANGE: JUN. 01, 2002 THRU JUL. 31, 2002
REGION: (09) SAN FRANCISCO
STATE: CALIFORNIA

REPORTING ORGANIZATION: BAY AREA AIR QUALITY MANAGEMENT DISTRICT
MONITOR TYPE: SLAMS

SITE ID CITY ADDRESS	PARAMETER	POC	DURATION METHOD	OBSERVATIONS -----											
				NUMBER / PERCENT											
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
06-001-0005	42101 Carbon Monoxide	1	1						712	736					
OAKLAND			008						99%	99%					
822 ALICE ST., OAKLAND															
06-001-0005	44201 Ozone	1	1						30	31					
OAKLAND			047						100%	100%					
822 ALICE ST., OAKLAND															
06-001-0006	44201 Ozone	1	1						30	30					
SAN LEANDRO			047						100%	97%					
HOSPITAL-15400 FOOTHILL BLVD, SAN LEANDRO															
06-001-0007	42101 Carbon Monoxide	1	1						689	702					
LIVERMORE			054						96%	94%					
793 RINCON AVE., LIVERMORE															
06-001-0007	42602 Nitrogen Dioxide	1	1						689	703					
LIVERMORE			022						96%	94%					
793 RINCON AVE., LIVERMORE															
06-001-0007	44201 Ozone	1	1						30	30					
LIVERMORE			047						100%	97%					
793 RINCON AVE., LIVERMORE															
06-001-0007	81102 PM10 Total 0-10um STP	2	7						5	6					
LIVERMORE			063						100%	100%					
793 RINCON AVE., LIVERMORE															
06-001-0007	88101 PM2.5 - Local Conditions	1	7						5	6					
LIVERMORE			120						100%	100%					
793 RINCON AVE., LIVERMORE															
06-001-1001	88101 PM2.5 - Local Conditions	1	7						5	6					
FREMONT			120						100%	100%					
40733 CHAPEL WAY., FREMONT															
06-001-2001	44201 Ozone	1	1						30	31					
HAYWARD			047						100%	100%					
3466 LA MESA DR., HAYWARD															

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
DATA COMPLETENESS REPORT

May. 17, 2004

REPORT SUMMARY

DATE RANGE: JUN. 01, 2002 THRU JUL. 31, 2002

REGION: (09) SAN FRANCISCO

STATE: CALIFORNIA

REPORTING ORGANIZATION: BAY AREA AIR QUALITY MANAGEMENT DISTRICT

MONITOR TYPE: NAMS

PARAMETER	ACTIVE MONITORS	# NOT REPORTING	# MONITORS > 75%	MONITORS AVG COMPLETENESS
42101 Carbon Monoxide	1	0	1	94.3%
42602 Nitrogen Dioxide	1	0	1	94.3%
44201 Ozone	2	1	1	49.2%
81102 PM10 Total 0-10um STP	1	0	1	100.0%
MT SUMMARY: NAMS	5	1	4	77.4%

MONITOR TYPE: SLAMS

PARAMETER	ACTIVE MONITORS	# NOT REPORTING	# MONITORS > 75%	MONITORS AVG COMPLETENESS
42101 Carbon Monoxide	2	0	2	97.0%
42602 Nitrogen Dioxide	1	0	1	95.1%
44201 Ozone	4	0	4	99.2%
81102 PM10 Total 0-10um STP	1	0	1	100.0%
88101 PM2.5 - Local Conditions	2	0	2	100.0%
MT SUMMARY: SLAMS	10	0	10	98.6%

RO SUMMARY: BAY AREA AIR QUALITY MANAGEMENT DISTRICT

91.5%

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
DAILY SUMMARY REPORT

Report Request ID: 136024 Report Code: AMP435 May. 17, 2004

GEOGRAPHIC SELECTIONS															
EPA															
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	Region	Zip Code	Method	Duration	Begin Date	End Date

06 001

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS	
Option Type	Option Value

EVENTS PROCESSING REPORT ALL EVENT RECORDS
MERGE PDF FILES YES

SORT ORDER	
Order	Column
1	STATE_CODE
2	COUNTY_CODE
3	SITE_ID
4	PARAMETER_CODE
5	POC
6	DATES
7	DURATION_CODE
8	EDT_ID
9	DAILY_RANKING

GLOBAL DATES	
Start Date	End Date
2002 06 01	2002 07 15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
DAILY SUMMARY REPORT

May. 17, 2004

Monitor ID	Daily Coll. Date	Duration	EDT ID	Daily Arith Mean	Daily # Obs	Daily % Obs	Daily Coll Hour	Daily Max Sample Value	Daily Ranking Num
06-001-0005-42101-1	20020601	1 HOUR	0	.25	24	100.0	0	.3	345
06-001-0005-42101-1	20020601	8-HR RUN AVG END HOUR	0	.30	24	100.0	0	.3	330
06-001-0005-42101-1	20020602	1 HOUR	0	.25	24	100.0	0	.3	346
06-001-0005-42101-1	20020602	8-HR RUN AVG END HOUR	0	.30	24	100.0	0	.3	331
06-001-0005-42101-1	20020603	1 HOUR	0	.32	24	100.0	7	.5	316
06-001-0005-42101-1	20020603	8-HR RUN AVG END HOUR	0	.32	24	100.0	17	.4	300
06-001-0005-42101-1	20020604	1 HOUR	0	.47	24	100.0	5	.7	230
06-001-0005-42101-1	20020604	8-HR RUN AVG END HOUR	0	.48	24	100.0	12	.6	214
06-001-0005-42101-1	20020605	1 HOUR	0	.62	24	100.0	7	1.1	149
06-001-0005-42101-1	20020605	8-HR RUN AVG END HOUR	0	.62	24	100.0	12	.9	139
06-001-0005-42101-1	20020606	1 HOUR	0	.47	23	95.8	7	.9	183
06-001-0005-42101-1	20020606	8-HR RUN AVG END HOUR	0	.50	24	100.0	11	.7	185
06-001-0005-42101-1	20020607	1 HOUR	0	.28	24	100.0	6	.5	317
06-001-0005-42101-1	20020607	8-HR RUN AVG END HOUR	0	.30	24	100.0	0	.3	332
06-001-0005-42101-1	20020608	1 HOUR	0	.26	24	100.0	6	.6	269
06-001-0005-42101-1	20020608	8-HR RUN AVG END HOUR	0	.30	24	100.0	0	.3	333
06-001-0005-42101-1	20020609	1 HOUR	0	.29	24	100.0	21	.6	270
06-001-0005-42101-1	20020609	8-HR RUN AVG END HOUR	0	.31	24	100.0	22	.4	301
06-001-0005-42101-1	20020610	1 HOUR	0	.43	24	100.0	22	1.0	166
06-001-0005-42101-1	20020610	8-HR RUN AVG END HOUR	0	.39	24	100.0	22	.6	215
06-001-0005-42101-1	20020611	1 HOUR	0	.39	24	100.0	0	.9	184
06-001-0005-42101-1	20020611	8-HR RUN AVG END HOUR	0	.49	24	100.0	2	.8	155
06-001-0005-42101-1	20020612	1 HOUR	0	.27	24	100.0	8	.5	318
06-001-0005-42101-1	20020612	8-HR RUN AVG END HOUR	0	.30	24	100.0	0	.3	334
06-001-0005-42101-1	20020613	1 HOUR	0	.27	23	95.8	7	.5	319
06-001-0005-42101-1	20020613	8-HR RUN AVG END HOUR	0	.30	24	100.0	0	.3	335
06-001-0005-42101-1	20020614	1 HOUR	0	.29	24	100.0	6	.5	320
06-001-0005-42101-1	20020614	8-HR RUN AVG END HOUR	0	.30	24	100.0	0	.3	336
06-001-0005-42101-1	20020615	1 HOUR	0	.31	24	100.0	7	.5	321
06-001-0005-42101-1	20020615	8-HR RUN AVG END HOUR	0	.30	24	100.0	0	.3	337

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
MAXIMUM VALUES REPORT

Report Request ID: 136027 Report Code: AMP440 May. 17, 2004

GEOGRAPHIC SELECTIONS															
EPA															
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	Region	Zip Code	Method	Duration	Begin Date	End Date

06 001

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS	
Option Type	Option Value

EVENTS PROCESSING REPORT ALL EVENT RECORDS
MERGE PDF FILES YES

SORT ORDER	
Order	Column
1	PARAMETER_CODE
2	STATE_CODE
3	DURATION_CODE
4	DATES
5	COUNTY_CODE
6	SITE_ID
7	POC
8	EDT_ID

GLOBAL DATES	
Start Date	End Date
2002	2002

May. 17, 2004

Lead (TSP) (12128)

State: CALIFORNIA
Duration: 24 HOURS
Year: 2002

Primary:

Secondary:

Unit: UG/CU METER (25 C)

Maximum Values

County Name	POC
City Name	7
ALAMEDA	
FREMONT	

1st Max	2nd Max
6th Max	7th Max
.012	.009
07/01:00	03/21:00

Methods
304

4th Max	5th Max
9th Max	10th Max
.007	.007
10/11:00	11/04:00

Num	EDT
Exc	ID
0	0

.007	.006	.006	.006	.005
11/28:00	07/31:00	09/17:00	11/16:00	07/19:00

Carbon Monoxide (42101)

State: CALIFORNIA
Duration: 1 HOUR
Year: 2002

Primary:	35.5
Secondary:	35.5
Unit:	PPM

Maximum Values

County Name	POC
City Name	1
ALAMEDA	
OAKLAND	

1st Max	2nd Max
6th Max	7th Max
4.4	4.0
01/07:23	12/07:00

008
Methods

4th Max	5th Max
9th Max	10th Max
3.9	3.7
01/07:22	02/05:08

Num	EDT
Exc	ID
0	0

3.7	3.6	3.5	3.5	3.4
12/04:08	12/07:01	11/03:01	11/20:19	01/08:00

Maximum Values

County Name	Site ID	POC
City Name		
ALAMEDA	06-001-0007	1
LIVERMORE		

1st Max	2nd Max
6th Max	7th Max
4.8	4.5
02/04:07	01/31:07

054
Methods

4th Max	5th Max
9th Max	10th Max
4.0	4.0
02/11:07	02/11:08

Num	EDT
Exc	ID
0	0

3.7	3.6	3.6	3.5	3.4
02/05:07	01/18:07	12/03:07	12/02:07	01/30:07

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICKLOOK CRITERIA PARAMETERS

Report Request ID: 136035 Report Code: AMP450 May. 17, 2004

GEOGRAPHIC SELECTIONS															
EPA															
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	Region	Zip Code	Method	Duration	Begin Date	End Date

06 001

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS	
Option Type	Option Value

EVENTS PROCESSING REPORT ALL EVENT RECORDS
MERGE PDF FILES YES

SORT ORDER	
Order	Column

1 PARAMETER_CODE
2 STATE_CODE
3 COUNTY_CODE
4 SITE_ID
5 POC
6 DATES
7 EDT_ID

GLOBAL DATES	
Start Date	End Date

2002 2002

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

May. 17, 2004

Ozone (44201)

CALIFORNIA

PPM (007)

1-HOUR

SITE ID	P O C	REP ORG	CITY	COUNTY	ADDRESS	YEAR	METH	VALID DAYS	NUM DAYS REQ	1ST MAX 1-HR	2ND MAX 1-HR	3RD MAX 1-HR	4TH MAX 1-HR	DAY MAX 0.125	EST DAYS>/= DAYS< .125	MISS DAYS< 0.125	CERT EDT
06-001-0005	1	0086	OAKLAND	ALAMEDA	822 ALICE ST.,	2002	047	272	365	.053	.052	.050	.049	0	0.0	1	Y 0
06-001-0006	1	0086	SAN LEANDRO	ALAMEDA	HOSPITAL-15400 I	2002	047	242	244	.101	.090	.075	.074	0	0.0	2	Y 0
06-001-0007	1	0086	LIVERMORE	ALAMEDA	793 RINCON AVE.,	2002	047	362	365	.160	.135	.123	.116	2	2.0	3	Y 0
06-001-0010	1	0145	OAKLAND	ALAMEDA	6701 INTERNATIONAL	2002	087	344	365	.084	.083	.068	.063	0	0.0	5	0 0
06-001-1001	1	0086	FREMONT	ALAMEDA	40733 CHAPEL WA	2002	047	342	365	.110	.095	.095	.084	0	0.0	5	Y 0
06-001-2001	1	0086	HAYWARD	ALAMEDA	3466 LA MESA DR	2002	047	244	244	.093	.089	.086	.078	0	0.0	0	Y 0

Note: The * indicates that the mean does
not satisfy summary criteria.

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICKLOOK ALL PARAMETERS

Report Request ID: 136034 Report Code: AMP450NC May. 17, 2004

GEOGRAPHIC SELECTIONS									
EPA									
State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA
Region									
Zip Code									
Method									
Duration									
Begin Date									
End Date									

06 001

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

ALL

SELECTED OPTIONS	
Option Type	Option Value

EVENTS PROCESSING REPORT ALL EVENT RECORDS
MERGE PDF FILES YES

SORT ORDER	
Order	Column
1	STATE_CODE
2	COUNTY_CODE
3	SITE_ID
4	PARAMETER_CODE
5	POC
6	DATES
7	EDT_ID

GLOBAL DATES	
Start Date	End Date

2002 2002

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

May. 17, 2004

Parameter	Unit	P O C	Rep Org	Year	Meth	# Obs	1st Max Value	2nd Max Value	3rd Max Value	4th Max Value	Arith. Mean	Duration EDT
Site ID: 06-001-0005	City: OAKLAND											
42101 Carbon Monoxide	PPM	1	0086	2002	008	8472	4.4	4.0	3.9	3.9	.66	1 HOUR
44201 Ozone	PPM	1	0086	2002	047	6465	.053	.052	.050	.049	.0270	1 HOUR
Site ID: 06-001-0006	City: SAN LEANDRO											
44201 Ozone	PPM	1	0086	2002	047	5772	.101	.090	.075	.074	.0391	1 HOUR
Site ID: 06-001-0007	City: LIVERMORE											
42101 Carbon Monoxide	PPM	1	0086	2002	054	8342	4.8	4.5	4.4	4.0	.55	1 HOUR
42601 Nitric oxide	PPM	1	0086	2002	022	8320	.363	.351	.333	.325	.0233	1 HOUR
42602 Nitrogen Dioxide	PPM	1	0086	2002	022	8320	.079	.078	.067	.064	.0174	1 HOUR
43101 Total Hydrocarbons	Parts per billion carbon	1	0086	2002	011	6188	4110	3970	3900	3860	1992.1*	1 HOUR
43201 Methane	Parts per billion carbon	1	0086	2002	011	6189	3550.0	3430.0	3350.0	3340.0	1919.09*	1 HOUR
44201 Ozone	PPM	1	0086	2002	047	8342	.160	.135	.123	.116	.0454	1 HOUR
68101 Sample Flow Rate- CV	PERCENT	1	0086	2002	780	97	.3	.3	.3	.3	.21	24 HOURS
68102 Sample Volume	CUBIC METER	1	0086	2002	780	98	24.0	24.0	24.0	24.0	23.98	24 HOURS
68103 Ambient Min Temperature	DEGREES, CENTIGRADE	1	0086	2002	780	98	15.4	14.6	14.2	14.0	7.71	24 HOURS
68104 Ambient Max Temperature	DEGREES, CENTIGRADE	1	0086	2002	780	98	40.8	40.2	39.9	37.7	23.47	24 HOURS
68105 Ambient Avg Temperature	DEGREES, CENTIGRADE	1	0086	2002	780	98	27.2	26.2	25.3	24.6	14.39	24 HOURS
68106 Sample Min Baro Pressure	MILLIMETERS (MERCURY)	1	0086	2002	780	98	760	758	758	757	748.0	24 HOURS
68107 Sample Max Baro Pressure	MILLIMETERS (MERCURY)	1	0086	2002	780	98	771	771	770	769	757.3	24 HOURS
68108 Sample Avg Baro Pressure	MILLIMETERS (MERCURY)	1	0086	2002	780	98	766	763	762	762	752.6	24 HOURS
68109 Elapsed Sample Time	MINUTES	1	0086	2002	780	98	1440	1440	1440	1440	1439.1	24 HOURS
81102 PM10 Total 0-10um STP	UG/CU METER (25 C)	2	0086	2002	063	61	64	57	49	48	24.5	24 HOURS
82203 Chloride (PM10) STP	UG/CU METER (25 C)	2	0086	2002	102	61	14.45	10.56	5.49	5.39	1.215	24 HOURS
82301 Ammonium (PM10) STP	UG/CU METER (25 C)	2	0086	2002	097	61	2.90	2.80	2.70	2.60	.507	24 HOURS
82306 Nitrate (PM10) STP	UG/CU METER (25 C)	2	0086	2002	102	61	8.70	8.20	7.90	7.40	2.023	24 HOURS
82403 Sulfate (PM10) STP	UG/CU METER (25 C)	2	0086	2002	102	61	4.3	3.7	3.4	3.3	1.89	24 HOURS
85101 PM10 - Local Conditions	UG/CU Meter (LC)	2	0086	2002	063	56	65	59	49	47	24.8*	24 HOURS
88101 PM2.5 - Local Conditions	UG/CU Meter (LC)	1	0086	2002	120	96	61.6	51.6	50.5	50.0	14.80	24 HOURS
Site ID: 06-001-0010	City: OAKLAND											
42101 Carbon Monoxide	PPM	1	0145	2002	067	7844	7.7	7.6	7.1	6.6	.73	1 HOUR
42401 Sulfur Dioxide	PPM	1	0145	2002	020	8048	.020	.019	.017	.016	.0019	1 HOUR
42601 Nitric oxide	PPM	1	0145	2002	074	8104	.346	.332	.332	.332	.0280	1 HOUR
42602 Nitrogen Dioxide	PPM	1	0145	2002	074	8099	.080	.069	.066	.064	.0187	1 HOUR
42603 Oxides of Nitrogen	PPM	1	0145	2002	074	8107	.381	.379	.375	.373	.0452	1 HOUR
44201 Ozone	PPM	1	0145	2002	087	8024	.084	.083	.068	.063	.0348	1 HOUR
61103 Resultant Speed	KNOTS	1	0145	2002	020	8489	16.0	15.0	14.0	14.0	4.25	1 HOUR

Note: The * indicates that the mean does not satisfy summary criteria.