City of Scottsdale Water Resources Division IAS (Information Access System)

Presented by: Bryan Cooper Water Resources Systems Integrator

IAS (Information Access System)

The Information Access System is a City intranet web portal that allows anyone in the City's Water Division to access many different data sources from this site. It links many different web apps along with links to external web sites and also links to data that may not be considered web applications. We use this site to get web based reports and also submit data from submittal forms to generate reports for such things as round, readings, check sheets and plant-process lab results. This site is used as a one stop shop for such things listed below.

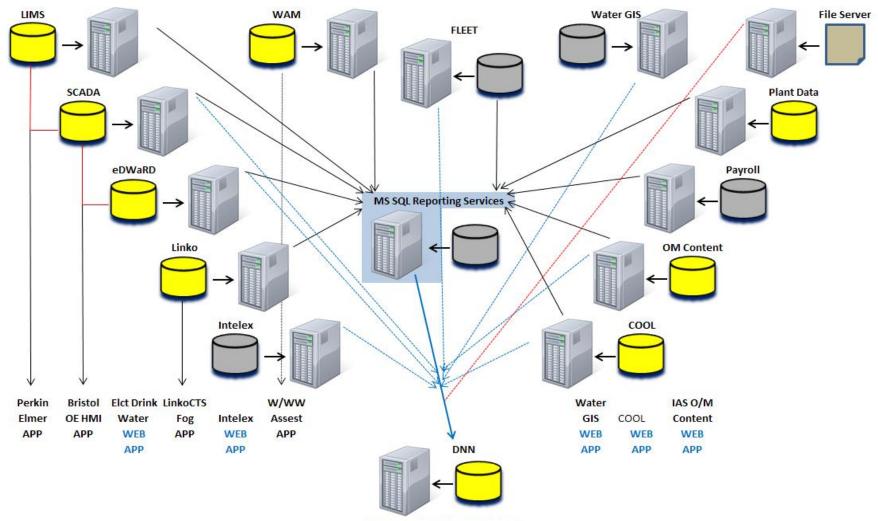
- Live Real Time Scada Monitoring.
- Live Real Time Security Camera Monitoring.
- Web based / submittal forms. Rounds, Readings, Labs, Site Inspections.
- SCADA –LIMS CMMS GIS PAYROLL/BUDGET LINKO – Vehicle Tracking/Inventory web reports.
- CAD Facility As-Built Drawings
- IAS Electronic Operations Manuals Web Site.
- W/O Work Order CMMS Web Site.
- COOL Computer Online Operations Log Web Site.
- Water GIS Web Site.
- eDWaRD Electronic Drinking Water Regulatory Database Web Site.



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General Computer Questions. How Can I Do That? Information Systems - Ext. 27627	Centralized Maintenance Management System (CHM5) - Wednesday, September 27, 2006 The following CMMS reports are now linked and available for review: Al Work Orders - Opened Work Orders - Obset Work Orders.	Feedback □ the final: fina: final: final: final: final:

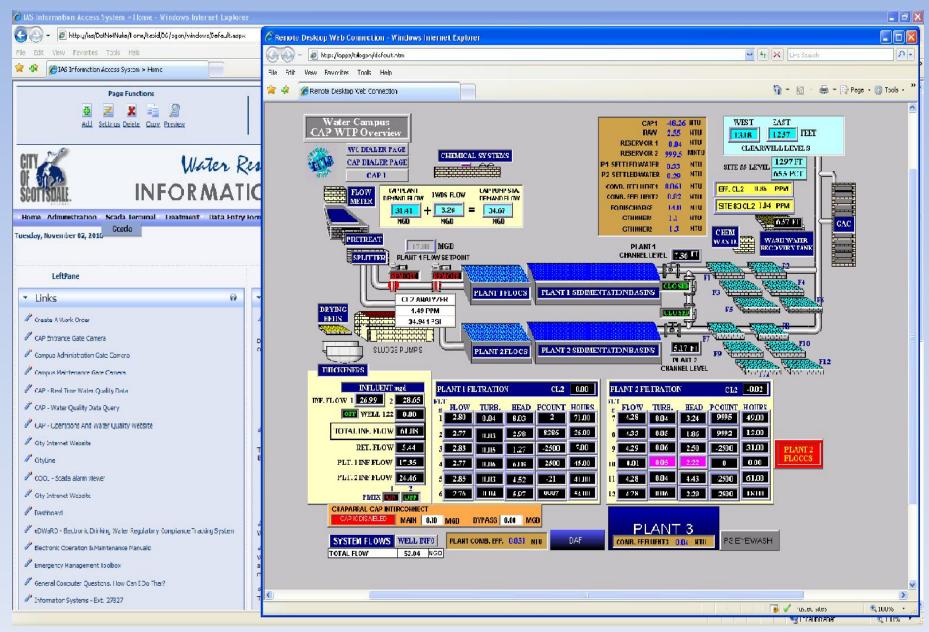
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IAS and File-Server Network Topology

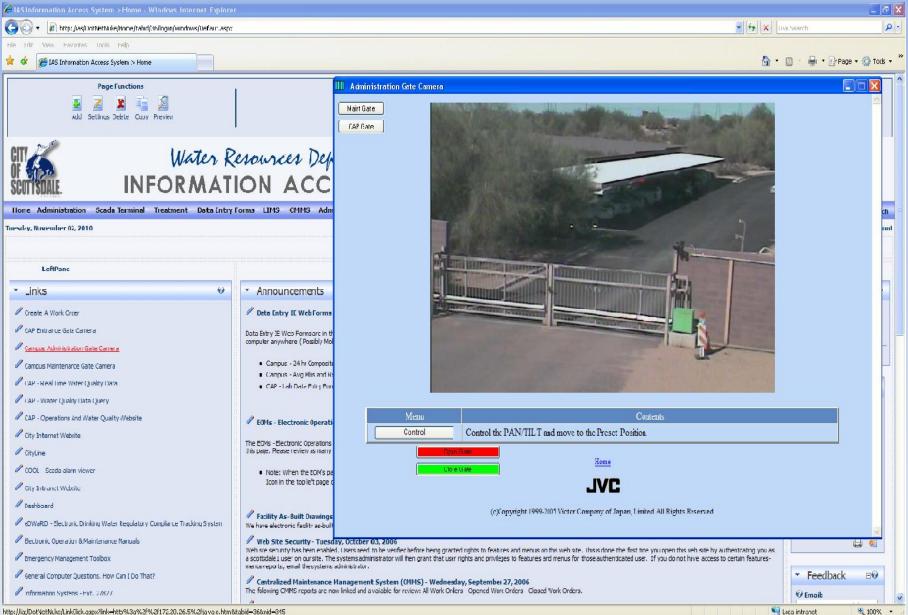


IAS (Information Access System)

Live – Real Time Scada Monitoring



Live – Real Time Security Camera Monitoring



Rounds-Readings-Labs-Site Inspections - Submittal forms

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Electronic Operations Manuals – CAD Facility As-Built Web Site

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TreatedWater Disinfection PURPOSE	BID CALL NO. 05PB088
Power Supply	VOLUME NO. 3 OF 4
Compliance Mont he purpose of the arsenic treatment system is to accomplish the following:	
Facility Drawings Reduce arsenic concentrations in Site 115 groundwater using asenic adsorption contactors.	
Comply with the EPA Arsence Rule that requires a striking water arsenic concentration	
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Administration UVERVIEW	CLIDIC TRADUCTION STATES TO CTUDE TO CT
User: DCOOPER 3 20 32 4	
Sutrematic 1 (#w114001) Sutrematic 2 (#s14001) Sutrematic 3 (#s17402)	
The arsenic treatment system consists of the following major components:	
 Four self cleaning filters (Nos. 1 through 4) 	🦻
 One /a ve pad Six adsorption contactors (A through Γ) 	(i)
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Vehicle – Fleet Inventory and Water GIS Web Site

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909335	2008	TOYOTA	PRIUG	JTDKD20U993527712	G015TR	
901331	2001	CHEVROLE	SUBURBAN	3GNGK26U21G203359	G133CR	Trust us to be there 5/5/1/2 FASTER Service Center - Equipment Records
106207 106206	2006	FORD	F 150 F 350	1FTRF 12216KC01896 1FTWF30756EC36382	G784DS G798EM	ADJLK Service Center - Laupment Records 1,000.753.776 Center equipment again: [deferred repairs] [graphics] [request for service]
97264	1997	CHEVROLET	C20	*GCGC29R6VE243907	G714BR	
08422	2008	FORD	F360	FDWF36R38EB36127	G129EY	Equipment Master Record
3422 001 108423	2008	SIAHL	108VCD F550	1FDWF36R38EB36127 1FDAF56R48EB35128	G129EY	Company: PRODUCTION
00424	2008	FORD	LT75CO	2FZI ATD000A277004	G284FB 0202FD	Ecuipment No.: 0902333 License: GROAFR
08125	2008	FORD	F360	FDSF34R68EC88966	G313FB	Year: 2007 Serial No.: 1FTRF12257NA43531
3425-001	2008	STAHL	108VCD	*FDSF34R58EC88965	G313FB	12 Make: FORD Location: 1
08426	2008	FORD	F360	FDSF34R18ED13229	G31 1FB G31 1FB	Model: F: 50 Coor: OXFORD WHITE
426-001	2008	FORD	108VCD F350	FDSF34R18ED13229 1FDSX34_14ED82408	G311FB G354DP	
05298	2005	FORD	H15U	1EDXE46P95ED26474	GIBBUS	Depetment INDUSTRIAL PRETREATMENT
04257	2004	FORD	E350	1EDSE34P74ED47619	G361DP	Meter Realing
04295	1998	CHEVROLE	C20 F350	1GCGC24RXVVE261663 1FTSF30P94ED47633	GA00907 G414DL	Meter Type: Cescription: Reading:
295-001	2004	STALL	96VCB	1FTSF30P94ED47633	G414DL G114DL	M MILFAGE NETER 23509
07212	2007	FORD	F550	1FDAF56P47EA14321	GC67CR	
7426	2000	FORD	1 ST DRW SB	1FDXF4686YFF27772	G432CM	Den Work Orders
000337	2009	FORD	F350 F350	1FD8F34R99EA94344	C834FR G835FR	: Open Work Order No.: Date in Total Cost Status:
109338 7269	2008	CHEVROLET	F350 C20	FDWF36R99EA94343 1GCGC24R2WE252502	G835=R G824ER	Total Cost and Total Cost Status
09336	2009	CHEVROLET	Colorado	1GCC5199298145439	G821FR	
07332	2007	FORD	E150	1FTRE12237NA43495	G148FY	Last Freventive Maintenance Performed
06208	2006	FORD	F150 HC-10-5E IRL	1FTRF12276KC01899 1A9HC 1023X 1321105	G785DS G103CK	Type: Description: Date Done: A PNA 10/11/2010
05264	2005	FORD	HC-10-5E TRL F150	1A9HC 1023X 1321 105 1FTVX12505NB40608	G103CK G617DS	A PNA 10/11/2010 W PNW WARANTY PRE EXPIRATION 10/11/2010
220	2000	FORD	EXPLORER	1FMZU51XXYUB32866	G678BZ	
7276	2005	CHEVROLET	1/2T PLEC	1GCEC19V822336740	G373CK	Preventive Maintenanze
275 07333	2002	FORD	PU EXCB BIFL F 150	1 CCCC29UX2E244106 1FTRF 12257NA43501	CA07329 G800ER	Image:
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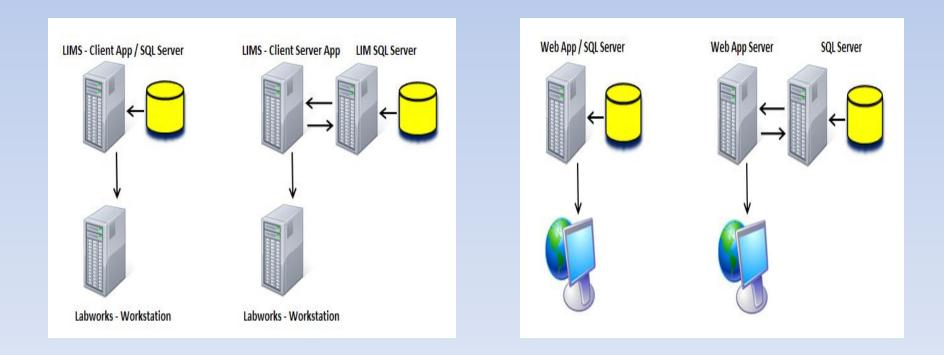
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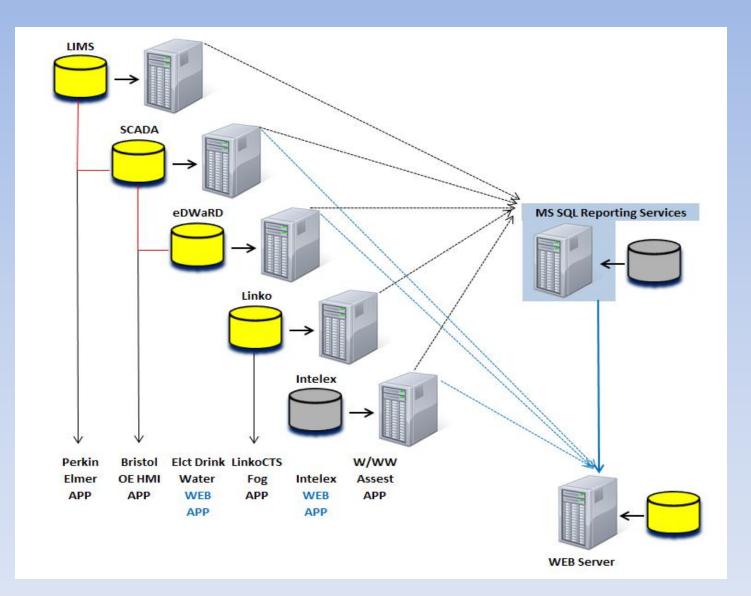
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IAS (Information Access System) - Water Quality Monitoring

- How should we set it up?
- How many servers will it take?
- Where will the software be installed, and on how many computers?
- Will there be software to install?
- Who will get access to the software and reports? Data Sharing.



IAS (Information Access System) - Water Quality Monitoring



Water Quality Monitoring – Perkin Elmer Labworks - LIMS Application

LIMS (Laboratory Information Management System)

- The LIMS is a tool used by Water Quality staff to track data associated with samples submitted to the City of Scottsdale Water Quality Laboratory.
- Samples are logged in, assigned a unique laboratory identification number, labeled, and then placed in queue for laboratory analysis.
- Upon completion of analysis, results are entered by the analyst, then peer reviewed and validated. Results
 can be downloaded directly from lab instrumentation to reduce transcription and other human errors.
 Quality control data associated with analyses can also be stored.
- Upon completion of all lab analyses, the samples are reviewed by the LIMS administrator.
- The LIMS can produce certificates of analysis for reporting to regulatory agencies or the data can be exported to a variety of formats.
- All laboratory data is stored in the LIMS database for future use or direct use in other applications such as IAS, LINKO or EDWaRD.

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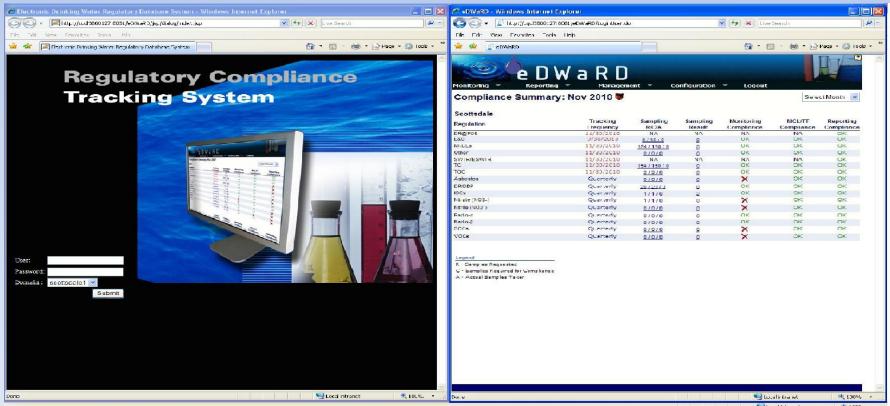
Water Quality - LIMS Web Based MS SQL Services Reports

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Water Quality Monitoring – RedOak eDWaRD - Web Applications

eDWaRD (Electronic Drinking Water Regulatory Database)

- EDWaRD is a tool used by Regulatory staff within Water Quality for tracking compliance monitoring associated with the Safe Drinking Water Act. Email alert function for compliance problems.
- EDWaRD has internal algorithms for each drinking water rule (Lead & Copper, Radiochems, Stage 1 DBPs, etc.) that prompts users for collection of compliance samples; then once collected, evaluates the data against the rule requirements (compliance with maximum contaminant level, frequency, etc.).
- Data is automatically extracted from LIMS and SCADA, imported into EDWaRD and evaluated against the various algorithms.
- The user can generate several more advanced compliance reporting forms within EDWaRD such as monthly turbidity reports for water treatment plants, quarterly reports for DBPs containing running annual averages, as well as summary reports for EPDS sampling. EDWaRD also contains several custom reports for tracking regulatory data.



Water Quality Monitoring – Intelex Environmental Web Applications

Intelex (Environmental program used to identify and notify requirements for various permits)

- Intelex is used to briefly describe the Air, Aquifer Protection Program, Reuse and Underground Storage Facility Permits and their fee's, renewals and reporting requirements.
- An email function allows the user to set-up a notification schedule so no reporting or fee timelines are missed.
- The Intelex program also has a feature allowing you to upload documents for electronic record retention.
- The program can show upcoming tasks and who is responsible for completing each task. It can also identify overdue tasks or provide a search for an individual task.
- Notifications can be sent out to various responsible individuals on the timelines you choose, an example would be the responsible person would be notified 60 days prior, at 30 days their manager would be notified and at 15 days the director would receive an email.

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Water Quality Monitoring – LinkoCTS Application

LinkoCTS™ (Industrial Pretreatment and Fats Oils & Grease Compliance Tracking Software)

- LinkoCTS manages activities and evaluates industrial pretreatment and Fats Oils & Grease (FOG) compliance in accordance with the General Pretreatment Regulations in 40 CFR – 403.
- **Permit Management** Maintain List of Permitted Industries and FOG Food Service Establishments (FSEs) Inventories and Required Information.
- Sample and Result Administration Schedule, track and evaluate sample analysis compliance.
- Violations & Enforcement Detect Violations, issue NOVs and manage compliance requirements.
- 40 CFR 403 Compliance Manages pretreatment data and evaluates 40 CFR 403 compliance requirements.
- Industrial and FSE Inspection Documents field inspection activities.
- Advanced Scheduling Schedules authority and IU requirements/events and provides reminders.
- Customized Reporting, Filtering and Search Tools results are entered by the analyst, then peer reviewed and validated. Results can be downloaded directly from lab instrumentation to reduce transcription and other human errors. Quality control data associated with analyses can also be stored.
- LINKO PIPE Creates an electronic transfer of data from Labworks LIMS and provides automatic filtering of data for identification of violations.

