



PIT Tag Information System

Columbia Basin

Recent Accomplishments of the PTAGIS Program

John Tenney, Don Warf, and Nicole Tancreto, PSMFC

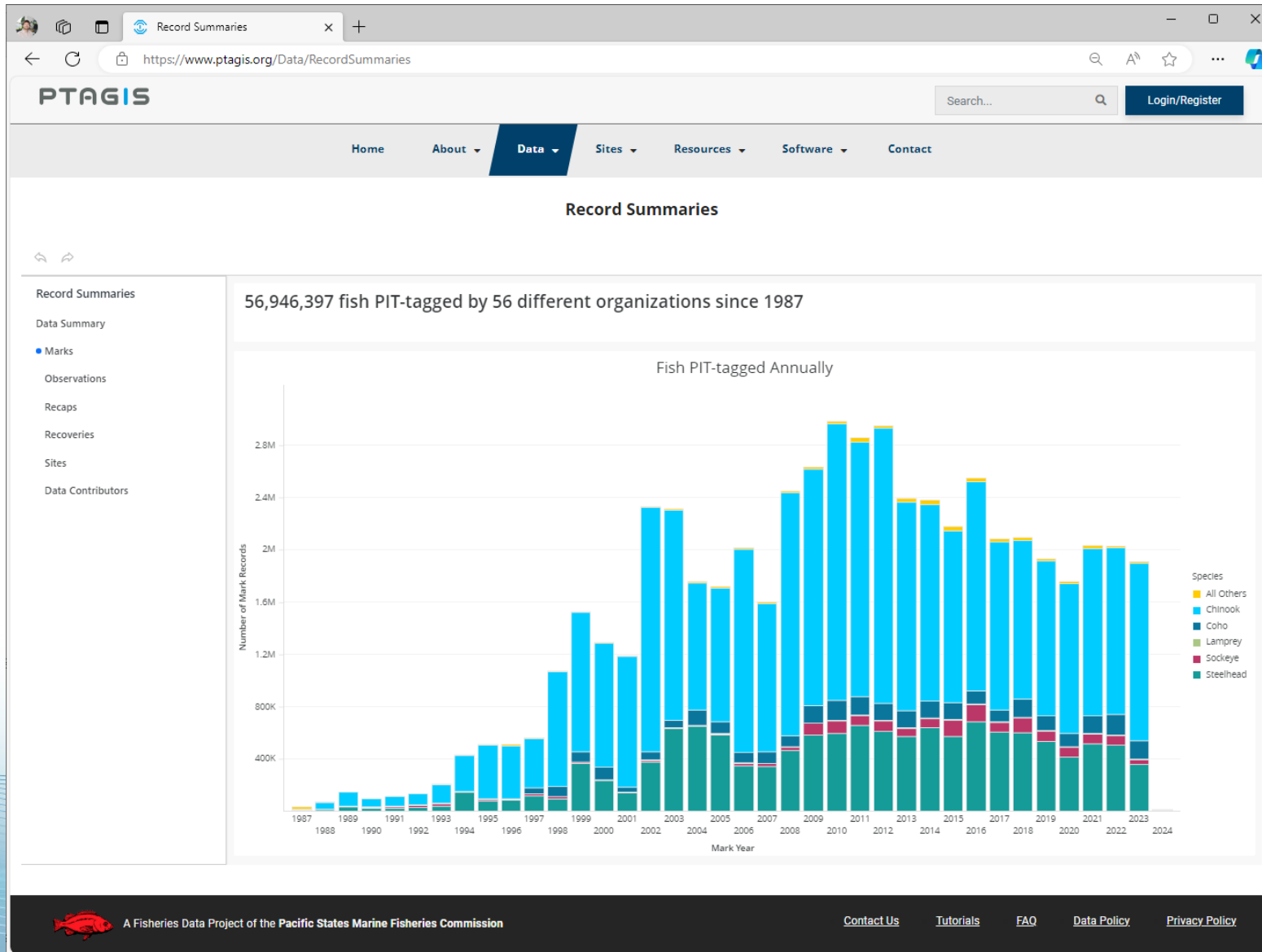
A presentation for the
2024 PIT Tag Workshop

(photos and drawings provided by PSMFC staff unless otherwise noted)

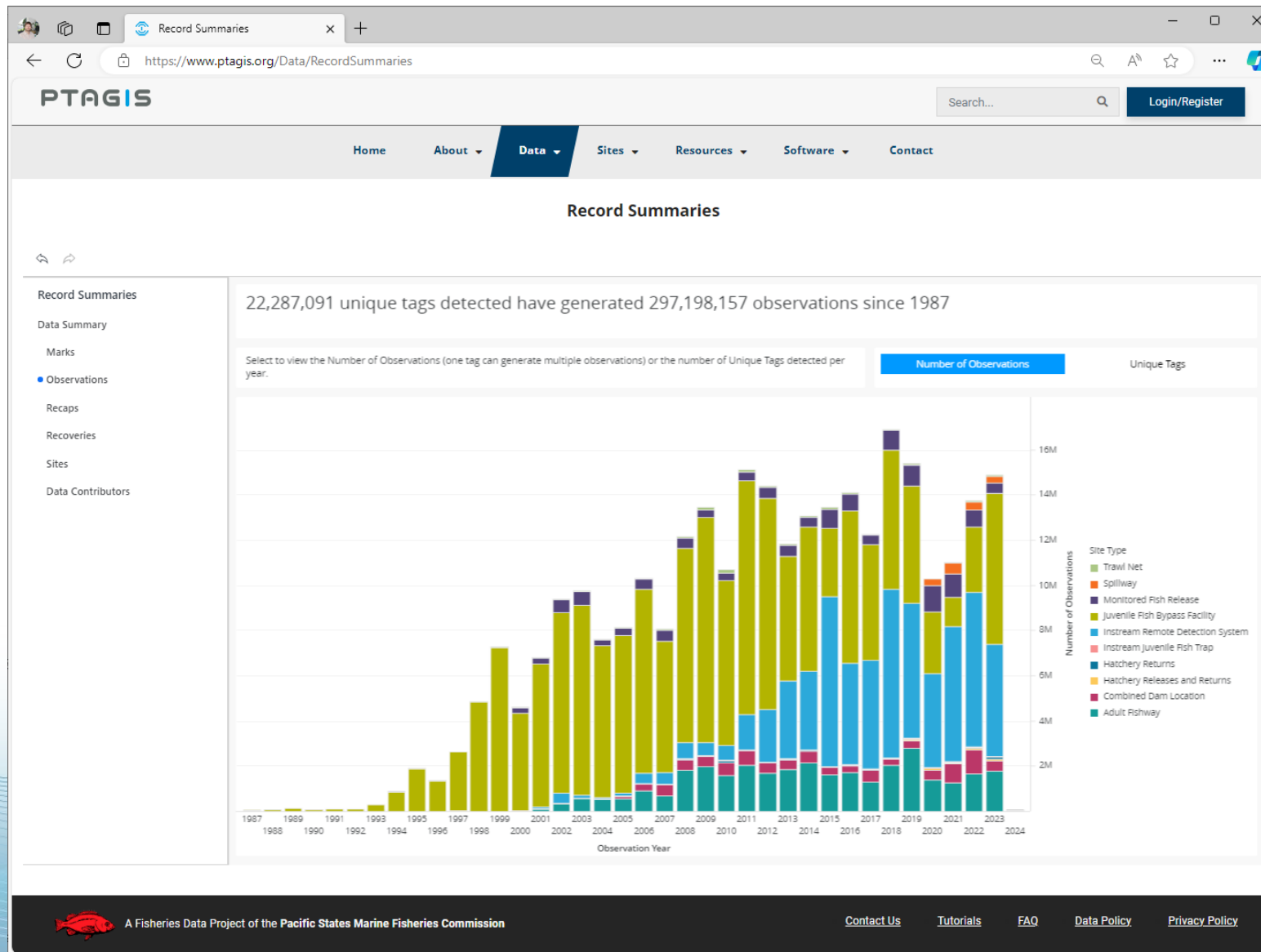
PTAGIS Program Overview

- **PSMFC Fisheries Data Project started in 1991**
- **Funded by BPA via *Columbia Basin Fish & Wildlife Program***
- **Regional database of PIT tag data in Columbia River basin**
- **Data contributed from regional agencies, available to anyone**
- **PTAGIS doesn't perform analysis (RM&E) of the data**
- **Install, Operate & Maintain (O&M) large scale interrogation sites**
- **Governed by the PIT Tag Steering Committee (PTSC)**
 - **Instream PIT Tag Detection System (IPTDS) Subcommittee**
- **Provide regional coordination**

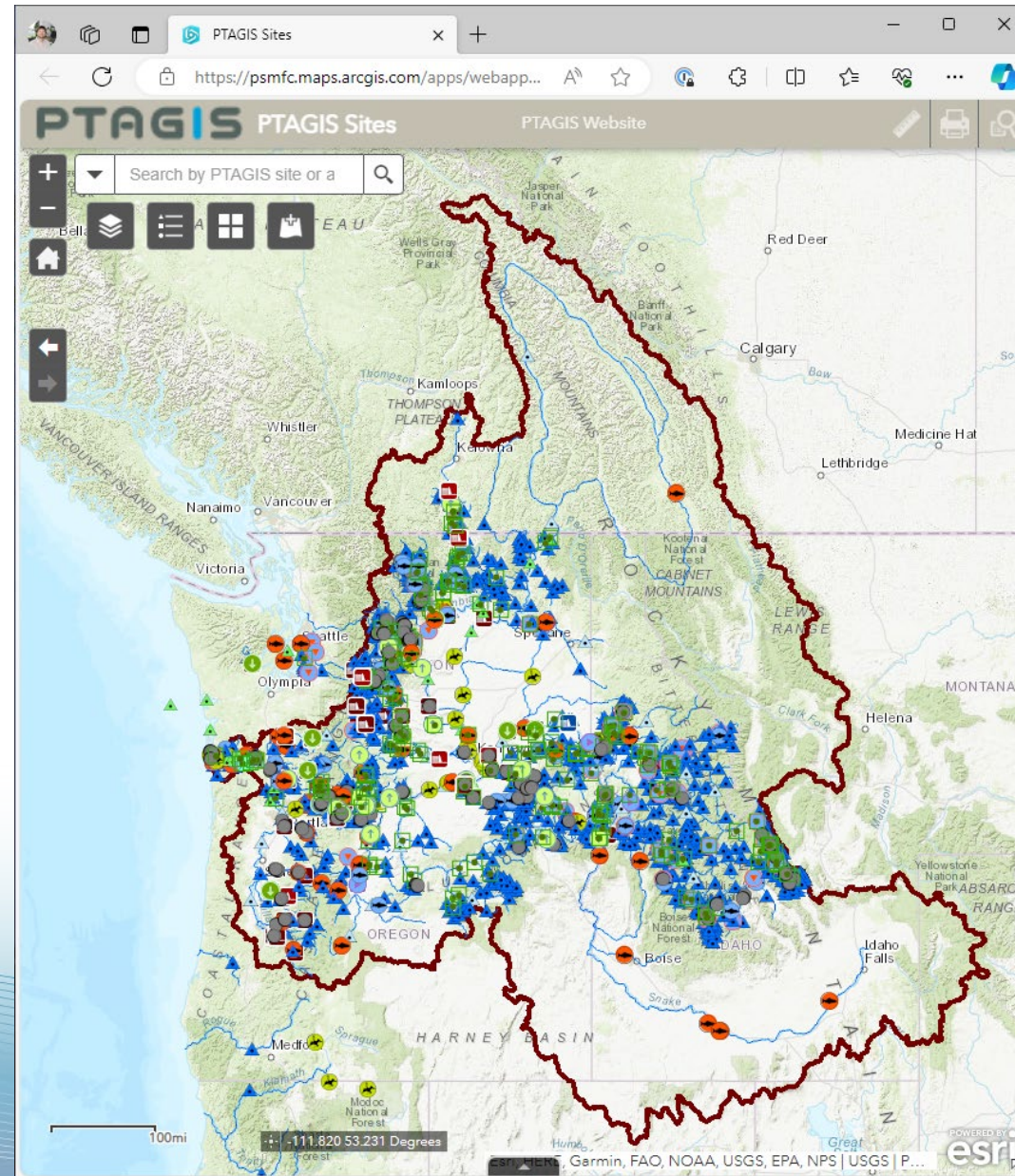
PTAGIS Program Overview: Data



PTAGIS Program Overview: Data



PTAGIS Program Overview: Data Collection Sites



PTAGIS Program Overview: Staff and Offices

The screenshot shows a web browser window displaying the PTAGIS website. The address bar shows the URL <https://www.ptagis.org/About/Staff>. The page features a navigation menu with 'Home', 'About', 'Data', 'Sites', 'Resources', 'Software', and 'Contact'. The 'About' menu is currently selected. The main content area is titled 'Staff' and contains a paragraph explaining that PTAGIS operates from two offices: Kennewick, Washington, and Portland, Oregon. Below this, the staff is organized into two sections: Kennewick and Portland. Each section lists staff members with their names, titles, and email links.

PTAGIS [Login/Register](#)

[Home](#) [About](#) [Data](#) [Sites](#) [Resources](#) [Software](#) [Contact](#)

Staff

PTAGIS operates out of two Pacific States Marine Fisheries Commission offices. The field operations and maintenance team works out of the Kennewick, Washington, office. The software and database management team works out of the Portland, Oregon, office.

KENNEWICK 509-735-2773

Alan Brower Field Engineering Technician Email	Darren Chase Field Engineering Technician Email	Don Warf Field Engineering Supervisor Email	Jennifer Lundy Administrative Assistant / PIT Tag Coordinator Email
Roger Clark Field Engineering Technician Email	Scott Livingston Field Engineering Technician Email	Mark Leonard Field Engineering Technician Email	

PORTLAND 503-595-3100

Craig White Business Intelligence Engineer Email	Daniel Wilson Software Engineer Email	John Tenney Program Manager/Software Engineer Email	Nicole Tancreto Data Coordinator Email
Sebastian Dudek Software Engineer - Web Email			

A Fisheries Data Project of the Pacific States Marine Fisheries Commission

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PTAGIS Program Overview: Large Scale Interrogation Site

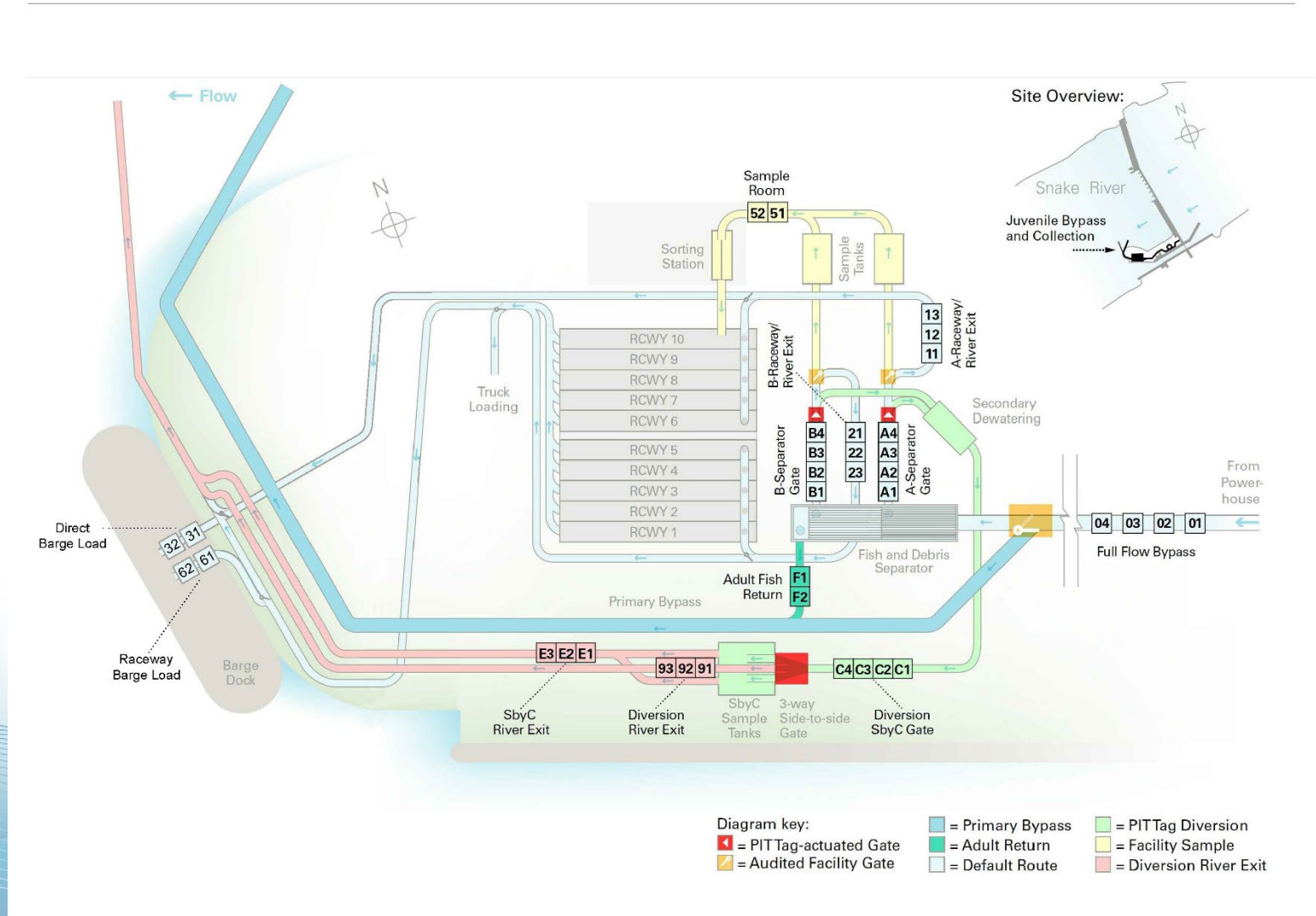


GOJ - LITTLE GOOSE DAM JUVENILE

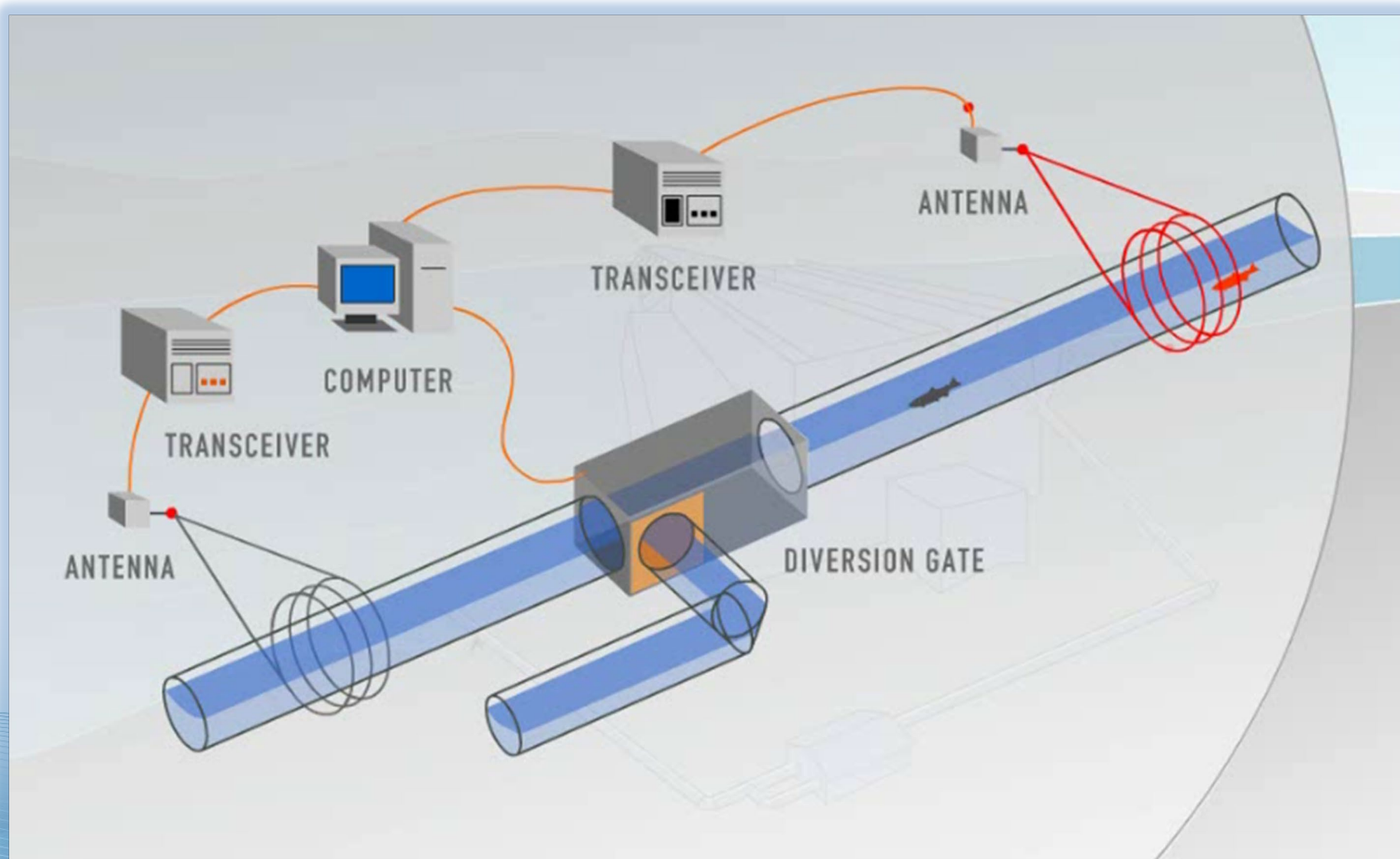
PTAGIS Program Overview: Large Scale Interrogation Site O&M



Little Goose Dam Smolt Bypass and Collection (GOJ) Interrogation Site Configuration 160. Drawing Rev 1.



PTAGIS Program Overview: Separation-by-Code (SbyC)



*graphic provided by Michael Reardon Design

Kennewick Team Update: Electronic Slide Gate Upgrades



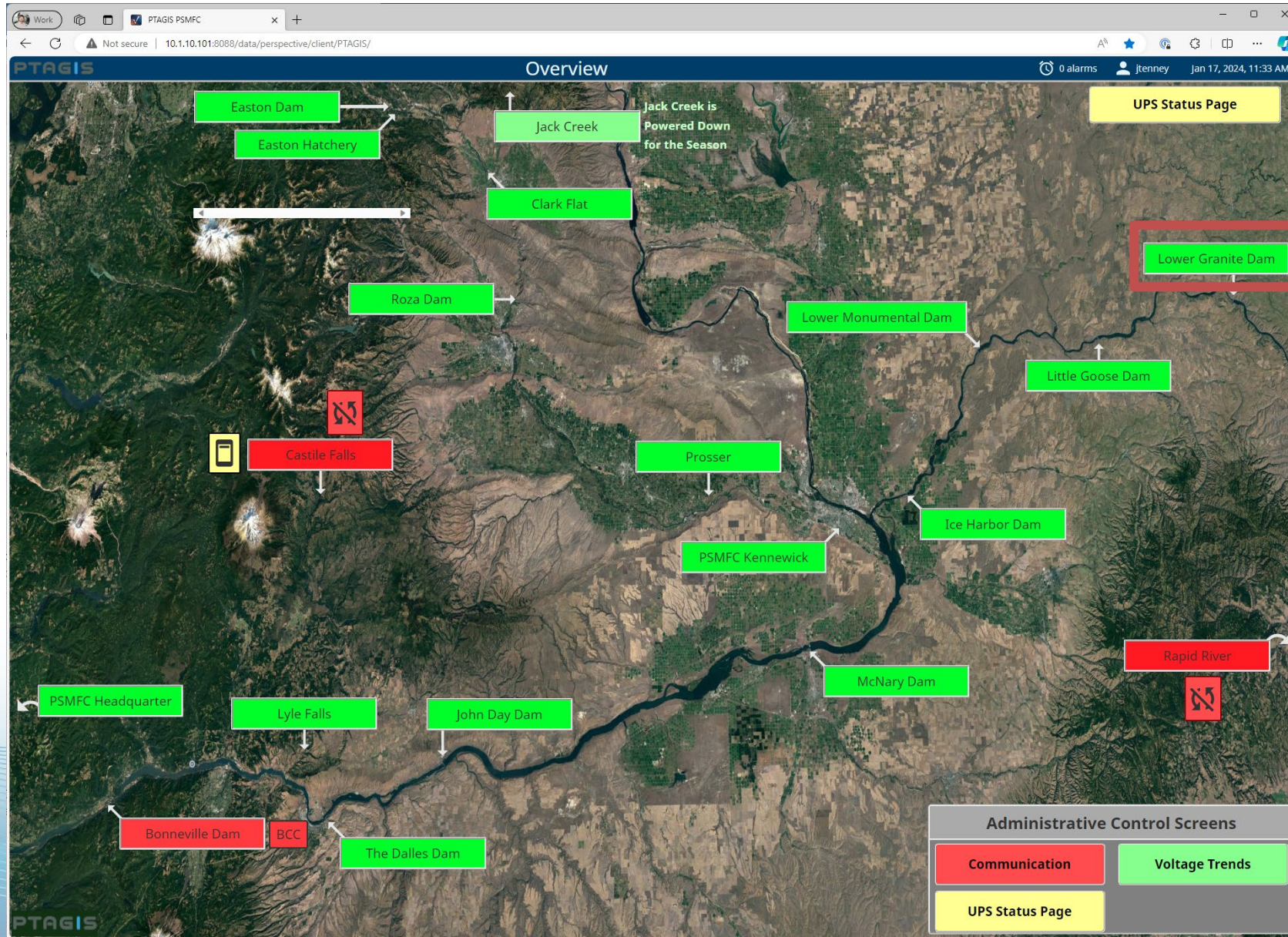
LMJ Electric Slide Gate Actuator



LMJ Slide Gate Drive and HMI

- Upgraded pneumatic slide gates to electronically-activated counterparts at LMJ
 - More durable
 - Require less maintenance
 - Quiet
- Slide gates at GRJ and GOJ to be upgraded next winter

Kennewick Team Update: SCADA Integration for real-time O&M



Kennewick Team Update: SCADA Integration for real-time O&M

PTAGIS Nav: Lower Granite Dam 0 alarms jtenney Jan 17, 2024, 11:34 AM

GRA (Adult Facility)

GRS (Spillway Detection)

GRJ (Juvenile Facility)

Site UPS:


Adult Fish Facility (GRA):	PC-1	PC-2					
Juvenile Fish Facility (GRJ):	PC-1	PC-2					
Spillway Detection (GRS):	PC-1	PC-2					
GRS Transceivers:	T-01	T-02	T-03	T-04			
	T-05	T-06	T-07	T-08	T-09	T-0A	T-0B

Kennewick Team Update: SCADA Integration for real-time O&M

Work | PTAGIS PSMFC | Not secure | 10.1.10.101:8088/data/perspective/client/PTAGIS/ | 0 alarms | jtenney | Jan 17, 2024, 11:35 AM

PTAGIS Nav: GRS Ogee Spillway

Camera



Click to Open

Antenna	IP	Current	Exciter Voltage	Phase	Cap Position	Average Noise	Max Noise	Sync	UPS Status
Antenna 04	192.168.114.#10	20.6 A	41.4 V	513.1	112	105mV	149mV	Yes	Green
Antenna 03	192.168.114.#12	19.6 A	37.3 V	529	91	93mV	119mV	Yes	Green
Antenna 02	192.168.114.#13	20.7 A	34.7 V	521.7	175	86mV	119mV	No	Green
Antenna 01	192.168.114.#14	20.3 A	43.7 V	528.4	185	79mV	87mV	Yes	Green
Antenna 07	192.168.114.#11	19.8 A	40.3 V	518.7	35	80mV	260mV	Yes	Green
Antenna 06	192.168.114.#09	20.5 A	45 V	514.8	134	89mV	361mV	Yes	Green
Antenna 05	192.168.114.#15	19.6 A	36.9 V	518.2	64	108mV	149mV	Yes	Green
Antenna 0B	192.168.114.#08	20.6 A	41.3 V	522.9	141	117mV	175mV	Yes	Green
Antenna 0A	192.168.114.#07	19.5 A	38.8 V	538.5	157	128mV	178mV	Yes	Green
Antenna 09	192.168.114.#05	21.3 A	39.2 V	524.6	152	79mV	106mV	Master	Green
Antenna 08	192.168.114.#06	19.7 A	35.7 V	527.1	213	81mV	115mV	Yes	Green

Run Noise Status (RNS) On All Transceivers

Run Full Status Report (RFS) On All Transceivers

Platform UPS Status

PC-1 UPS Status: ■

PC-2 UPS Status: ■

Tainter Gate is Detected CLOSED. No water spilling

Transceiver Trends

Communications

Exciter Power Adjustment

Transceiver Commands

Transceiver Alarming

Transceiver Power Cycle

Kennewick Team Update: GRS Installation and O&M



Kennewick Team Update: GRS Installation and O&M



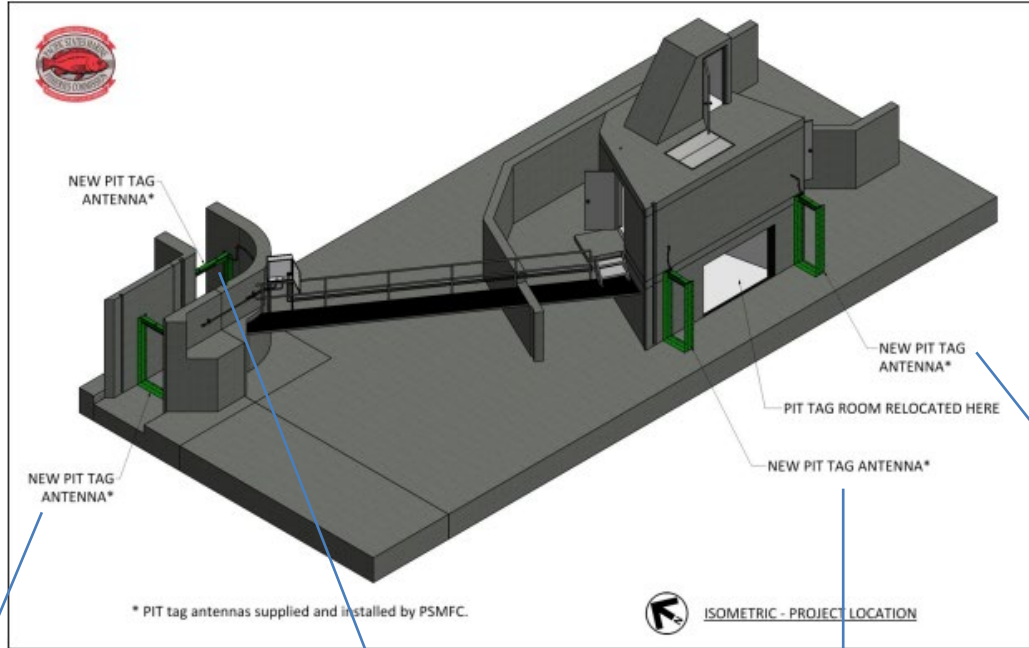
Kennewick Team Update: Bonneville Dam

The screenshot displays the PTAGIS PSMFC interface for the Bonneville Dam. The main view is an aerial satellite image of the dam and surrounding area, with several key locations labeled in green boxes: B2J (Juvenile Facility), BO1 (Bradford Island), BO2 (Cascade Island), BO3 (Adult Facility), BO4 (Washington Shore), and BCC (Corner Collector). A red box highlights the Corner Collector area, with a label 'Corner Collector Dewatered' pointing to it. The interface includes a top navigation bar with the PTAGIS logo, a home icon, and the text 'Bonneville Dam'. On the right side of the top bar, there are indicators for '0 alarms', a 'Sign In' button, and the date and time 'Jan 17, 2024, 1:06 PM'. On the left side, a 'UPS Status' panel lists the following facilities and their PC-1 and PC-2 statuses:

Facility	PC-1	PC-2
Juvenile Facility (B2J):	Green	Green
Bradford Island (BO1):	Green	Green
Cascade Island (BO2):	Green	Green
Adult Fish Facility (BO3):	Green	Green
Washington Shore (BO4):	Green	Green
Corner Collector (BCC):	Green	Green

The browser address bar shows the URL: 10.1.10.101:8088/data/perspective/client/PTAGIS/. The browser window title is 'PTAGIS PSMFC'. The Google Earth logo is visible in the bottom left corner of the image.

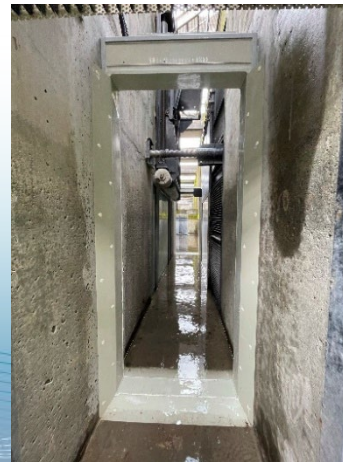
Kennewick Team Update: BO2 - Bonneville Cascades Is. Ladder



Fully operating in 2022

* PIT tag antennas supplied and installed by PSMFC.

ISOMETRIC - PROJECT LOCATION



Kennewick Team Update: Bonneville Dam

The screenshot displays the PTAGIS PSMFC web interface for the Bonneville Dam. The main view is an aerial satellite image of the dam and surrounding area, with several key facilities highlighted by colored boxes and labels:

- B2J (Juvenile Facility)**: Located on the left side of the dam.
- BO1 (Bradford Island)**: Located on the island in the middle of the dam.
- BO2 (Cascade Island)**: Located on the island to the right of Bradford Island.
- BO3 (Adult Facility)**: Located on the right side of the dam.
- BO4 (Washington Shore)**: Located on the far right side of the dam.
- BCC (Corner Collector)**: Located near the center of the dam.
- Corner Collector Dewatered**: A label pointing to the BCC area.

A red box highlights a specific area on the right side of the dam, likely related to the BO3 or BO4 facilities.

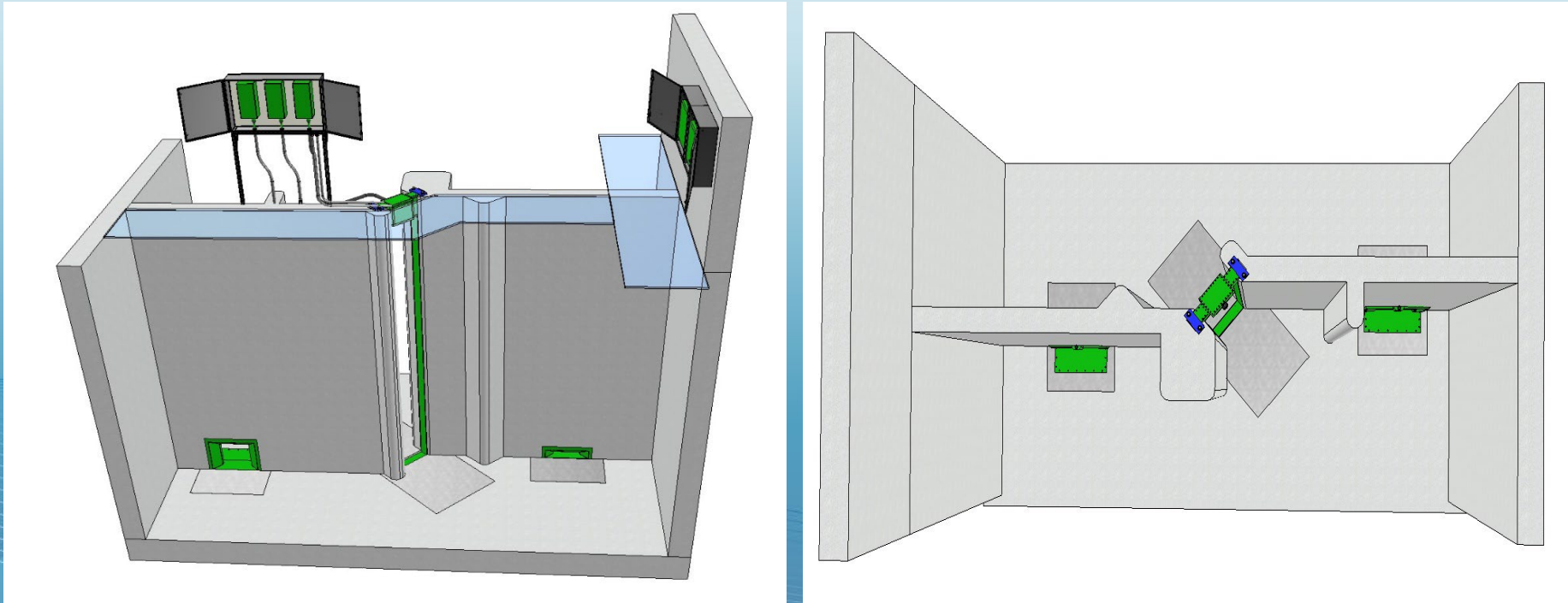
UPS Status:

Facility	PC-1	PC-2
Juvenile Facility (B2J):	Green	Green
Bradford Island (BO1):	Green	Green
Cascade Island (BO2):	Green	Green
Adult Fish Facility (BO3):	Green	Green
Washington Shore (BO4):	Green	Green
Corner Collector (BCC):	Green	Green

The interface also shows a browser window with the URL `10.1.10.101:8088/data/perspective/client/PTAGIS/` and a header with the text "Bonneville Dam", "0 alarms", "Sign In", and "Jan 17, 2024, 1:06 PM".

Kennewick Team Update: BO4 Serpentine Section Remodel

- Redesign started in 2022 with USACE Portland District
- 4 weir walls, each with 3 antennas, including lamprey slot
- Remodel to be completed next winter, 2025



Kennewick Team Update: B1 Ice and Trash Sluiceway

The screenshot displays the PTAGIS software interface for the Bonneville Dam. The browser address bar shows the URL: 10.1.10.101:8088/data/perspective/client/PTAGIS/. The interface includes a navigation bar with the PTAGIS logo, a home icon, and the text "Bonneville Dam". On the right side of the navigation bar, there are indicators for "0 alarms", a "Sign In" button, and the date and time "Jan 17, 2024, 1:06 PM".

A central panel titled "UPS Status:" lists the following facilities and their corresponding PC-1 and PC-2 status indicators:

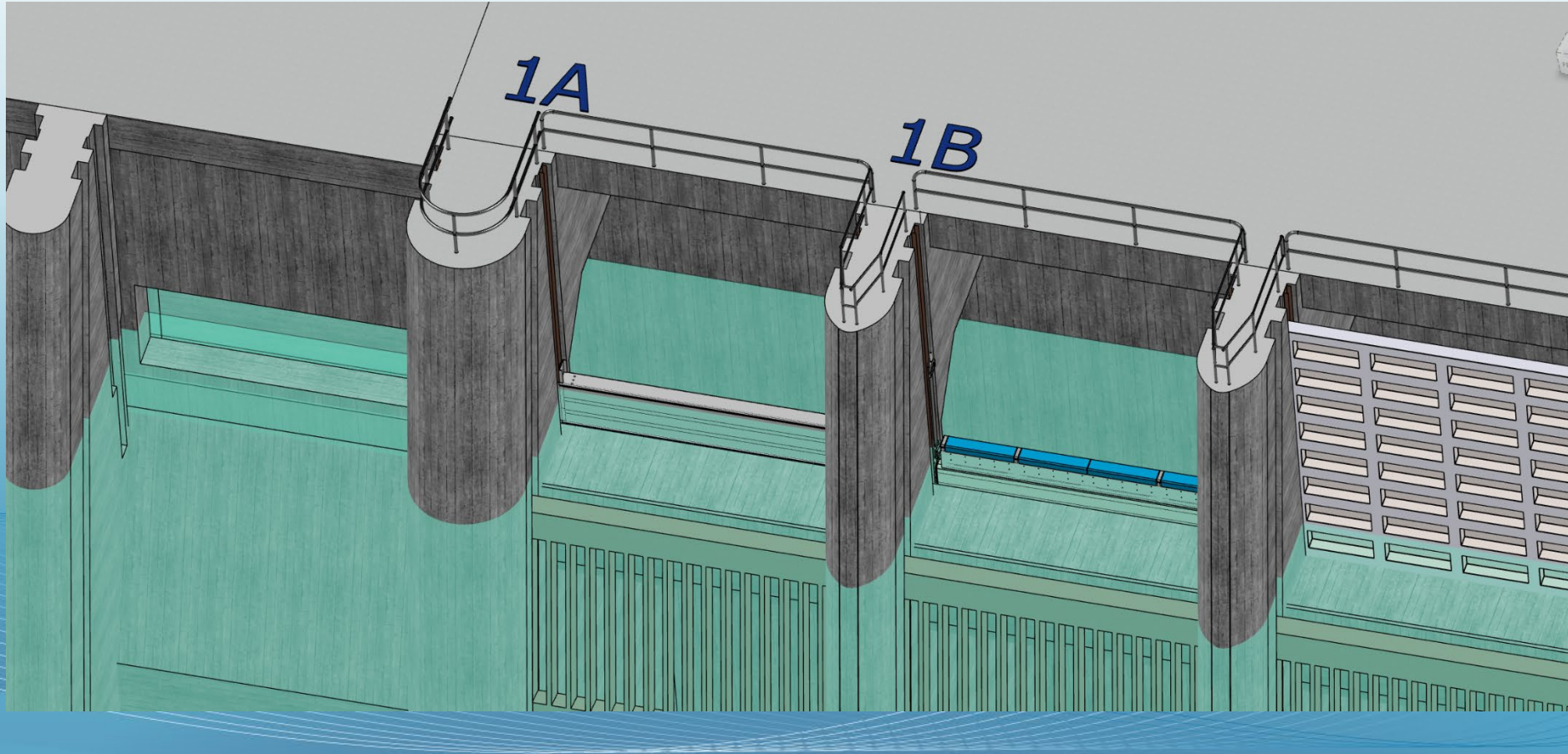
- Juvenile Facility (B2): PC-1 (green), PC-2 (green)
- Bradford Island (BO1): PC-1 (green), PC-2 (green)
- Cascade Island (BO2): PC-1 (green), PC-2 (green)
- Adult Fish Facility (BO3): PC-1 (green), PC-2 (green)
- Washington Shore (BO4): PC-1 (green), PC-2 (green)
- Corner Collector (BCC): PC-1 (green), PC-2 (green)

The main view is an aerial satellite image of the Bonneville Dam area. Several key locations are highlighted with colored boxes and labels:

- B2J (Juvenile Facility):** A green box pointing to a facility on the left bank.
- BO1 (Bradford Island):** A green box pointing to the island in the center.
- BO2 (Cascade Island):** A green box pointing to the island on the right bank.
- BO3 (Adult Facility):** A green box pointing to a facility on the right bank.
- BO4 (Washington Shore):** A green box pointing to a facility on the right bank.
- BCC (Corner Collector):** A red box pointing to a structure in the water.
- Corner Collector Dewatered:** A grey box pointing to the same structure.

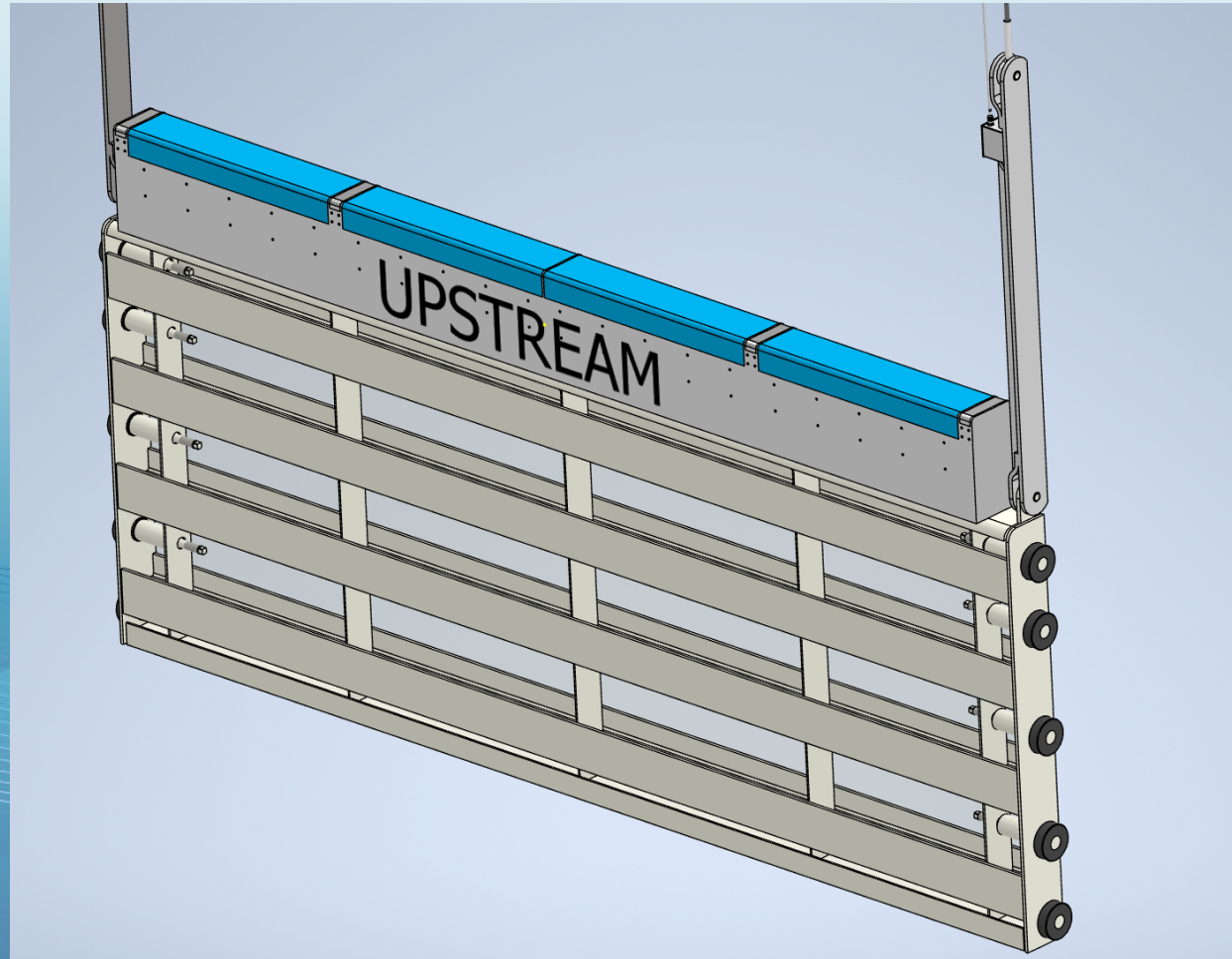
A red square highlights a specific area on the dam structure, which is the focus of the "B1 Ice and Trash Sluiceway" update mentioned in the title. The background image is credited to "Google Earth".

Kennewick Team Update: Bonneville Ice and Trash Sluiceway Site



Kennewick Team Update: Bonneville Ice and Trash Sluiceway Site

- Ongoing project for past few years
- Conceptual design currently under USACE review



Kennewick Team Update: Bonneville Ice and Trash Sluiceway Site

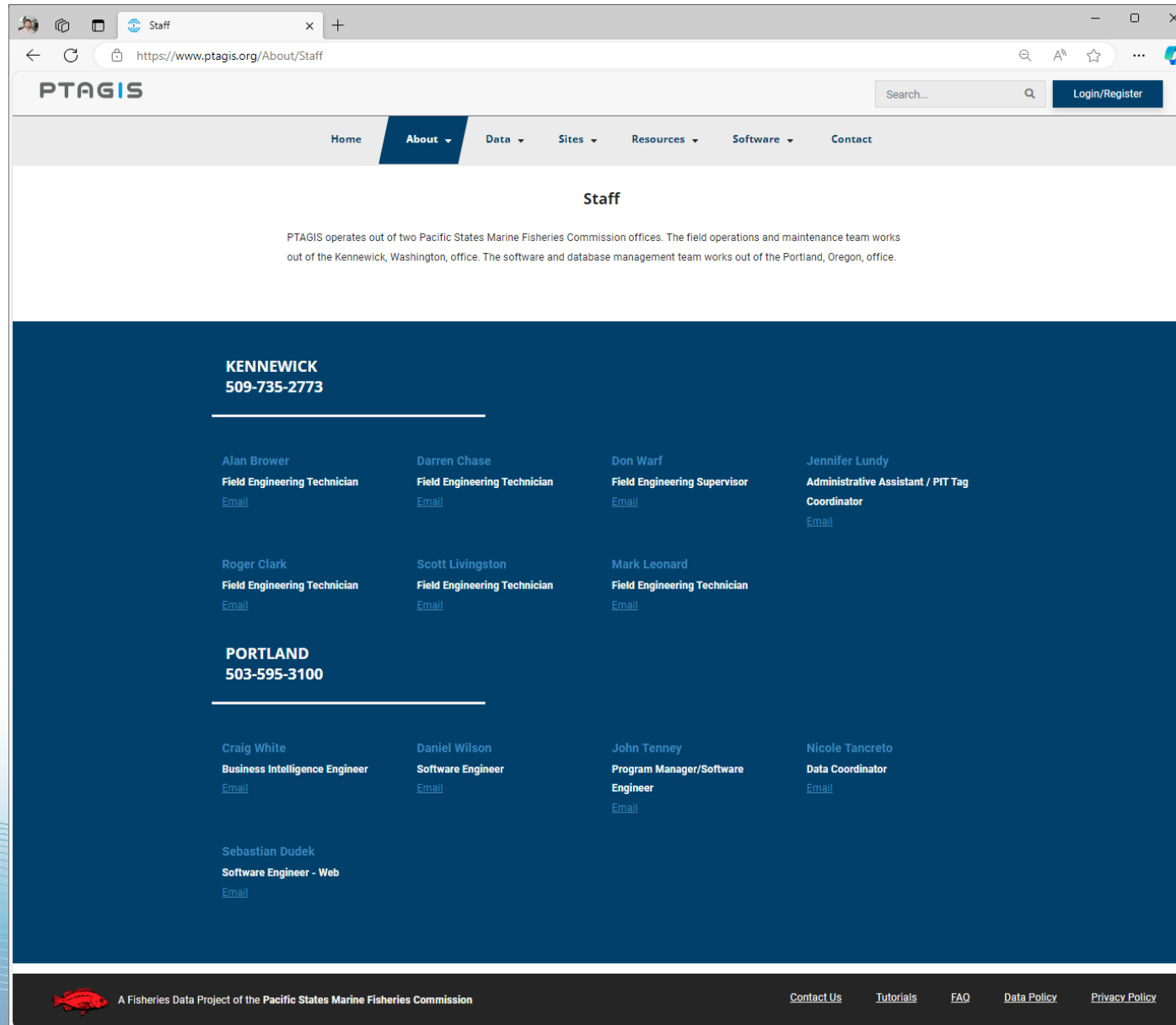


Kennewick Team Update: Added PIT Tag Detection on Barge Load Lines

- Installed 2021 at active transportation sites: GRJ, GOJ, and LMJ



PTAGIS Program Overview: Staff and Offices



PTAGIS

Home About Data Sites Resources Software Contact

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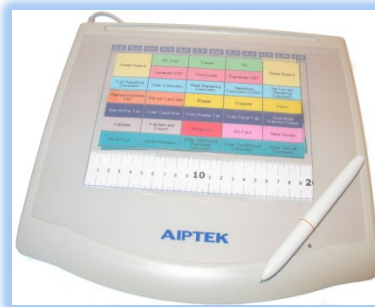
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Portland Team Update: P4 Tagging Software

PIT Tag Reader



Digitizer (graphics) Tablet



Digital Balance



Serial to USB



Portland Team Update: P4 Tagging Software



*video provided by Scott Putnam, IDFG

Portland Team Update: P4 Tagging Software

PTAGIS P4 v1.33

Record Management

2 | [Home] | [Mail] | [Help]

Validate | Customize... | Manage Open Sessions... | Export | [Print] | [Refresh] | [Home] | [A/B] | [Clock] | [Menu] | Dot Out | Layout

SMP-2020-057-001 x

Drag a column header here to group by that column

Event Type	Record#	PIT Tag	Length	SRR Code	Event Date (PST)	Conditional Comments	Text Comments	Tagger
Mark	1	3DD.003D2E2082	97	15H	02/26/2020 15:59:38	CW x		PUTNAM
Mark	2	3DD.003D2E2013	97	15H	02/26/2020 16:02:43	<2 x 1P x AD x PC x		PUTNAM
Mark	3	3DD.003D2E1F9E	101	15H	02/26/2020 16:15:12	AD x CA x		PUTNAM
Mark	4	3DD.003D650E97	96	15W	02/26/2020 16:16:50		2020 SMP/CSS WILD CHINOOOK	PUTNAM
Mark	5	3DD.003D6510F8	111	32W	02/26/2020 16:18:02		2020 SMP/CSS WILD STEELHEAD	PUTNAM
Recapture	6	3DD.003D2E1F17	105	32W	02/26/2020 16:21:24	RE x		PUTNAM
Mark	7	3DD.003D2E203F	210	32H	02/26/2020 16:25:58	AD x		PUTNAM
Mark	8	3DD.003D2E202D	208	15H	02/26/2020 16:26:49	AI x	NO MARK	PUTNAM
Mark	9	3DD.003D650EB2	135	15W	02/26/2020 16:27:58	CA x	2020 SMP/CSS WILD CHINOOOK	PUTNAM
Mark	10	3DD.003D2E2039	122	15H	02/26/2020 16:28:54	AD x CA x		PUTNAM
Recapture	11	3DD.003D650EAA	125	15W	02/26/2020 16:29:55	RE x	2020 SMP/CSS WILD CHINOOOK	PUTNAM
Recapture	12	3DD.003D2E1FAD	136	15W	02/26/2020 16:31:00	RE x		PUTNAM
Mark	13	3DD.003D2E2012	111	32H	02/26/2020 16:31:47	I x		PUTNAM
Mark	14	3DD.003D2E1F2F	155	32H	02/26/2020 16:37:39	AD x		PUTNAM
Mark	15	3DD.003D2E1FAA	211	15H	02/27/2020 09:51:25	<2 x >2 x 1P x 1S x CA x CW x I x		REID D
Recapture	16	3DD.003D2E207B	115	15H	02/27/2020 09:54:33	<2 x 1S x AD x RE x		REID D
Recapture	17	3DD.003D2E2055	198	32H	02/27/2020 09:54:57	>2 x 1S x RE x	NO MARK	REID D
Mark	18	3DD.003D2E1F54	134	15H	02/27/2020 09:55:38	>2 x 1S x AD x		REID D
Mark	19	3DD.003D2E2040	116	32H	02/27/2020 09:56:00	PC x		REID D
Mark	20	3DD.003D2E2098	124	15H	02/27/2020 09:56:18	<2 x 1P x AD x		REID D
Mark	21	3DD.003D2E1F65	288	32H	02/27/2020 09:56:28	AD x		REID D
Mark	22	3DD.003D2E208E	137	15H	02/27/2020 09:57:00	>2 x 1S x AD x		REID D
Mark	23	3DD.003D2E1FF4	155	15H	02/27/2020 09:57:17	<2 x 1S x AD x		REID D
Mark	24	3DD.003D2E1F73	146	15H	02/27/2020 09:57:33	<2 x 1P x		REID D
Mark	25	3DD.003D2E1F43	197	32H	02/27/2020 09:58:07	>2 x 1P x PC x		REID D
Recapture	26	3DD.003D2E1F21	166	32H	02/27/2020 09:58:23	<2 x >2 x 1P x 1S x RE x	NO MARK	REID D
Mark	27	3DD.003D2E1FE3	136	15H	02/27/2020 09:58:47	1P x 1S x AD x		REID D
Recapture	28	3DD.003D2E2049	156	32H	02/27/2020 09:59:01	<2 x >2 x 1S x RE x		REID D
Mark	29	3DD.003D2E1FD4	206	32H	02/27/2020 09:59:14	<2 x >2 x CA x CW x I x PC x		REID D

Record 1 of 29

Session Properties

Session

Session: SMP-2020-057-001

Created: 02/26/2020 15:59:23

Modified: 02/27/2020 11:39:22

Project Code: SMP

Session Message: 2020 FPC/IDFG SMP/CSS SMOLT PIT-TAGGING

Session Note:

Upload

File: SMP-2020-057-001.xml

Legacy File:

Submitted:

Submission Res...:

Submission Me...:

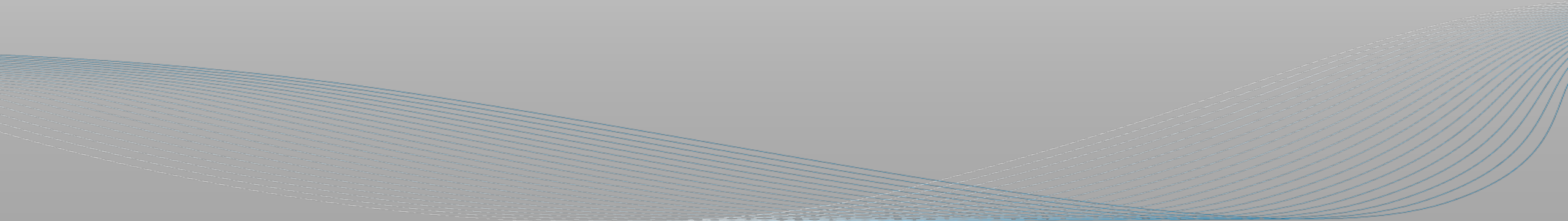
Data Entry & Validation

Profile: 2020 IDFG-SALTRP

Data Entry Layo...: 2020 IDFG-SMP

Repeating Values: 2020 IDFG-SALTRP

Portland Team Update: P4 => P5 Tagging Software

- **P4 first released in 2016 with 26 updates since then**
 - **Currently developing next-gen tagging software: P5**
 - **Focus user group to receive beta release of P5 soon**
 - **Production release of P5 in later half of 2024**
 - **Upgraded technology + additional features**
- 

Portland Team Update: M5 Interrogation Software

M5 M5 Control Panel

Operations Data Tools Help

Site Monitor: Site monitor started at 12/20/2023 10:27 AM.
Configuration: Configuration last updated 9/21/2023 12:32 PM

Data Logging: Current file GOJ-2024-019-P-012.json opened at 1/19/2024 11:00 AM.
Configuration: Create new Primary file every 60 minutes

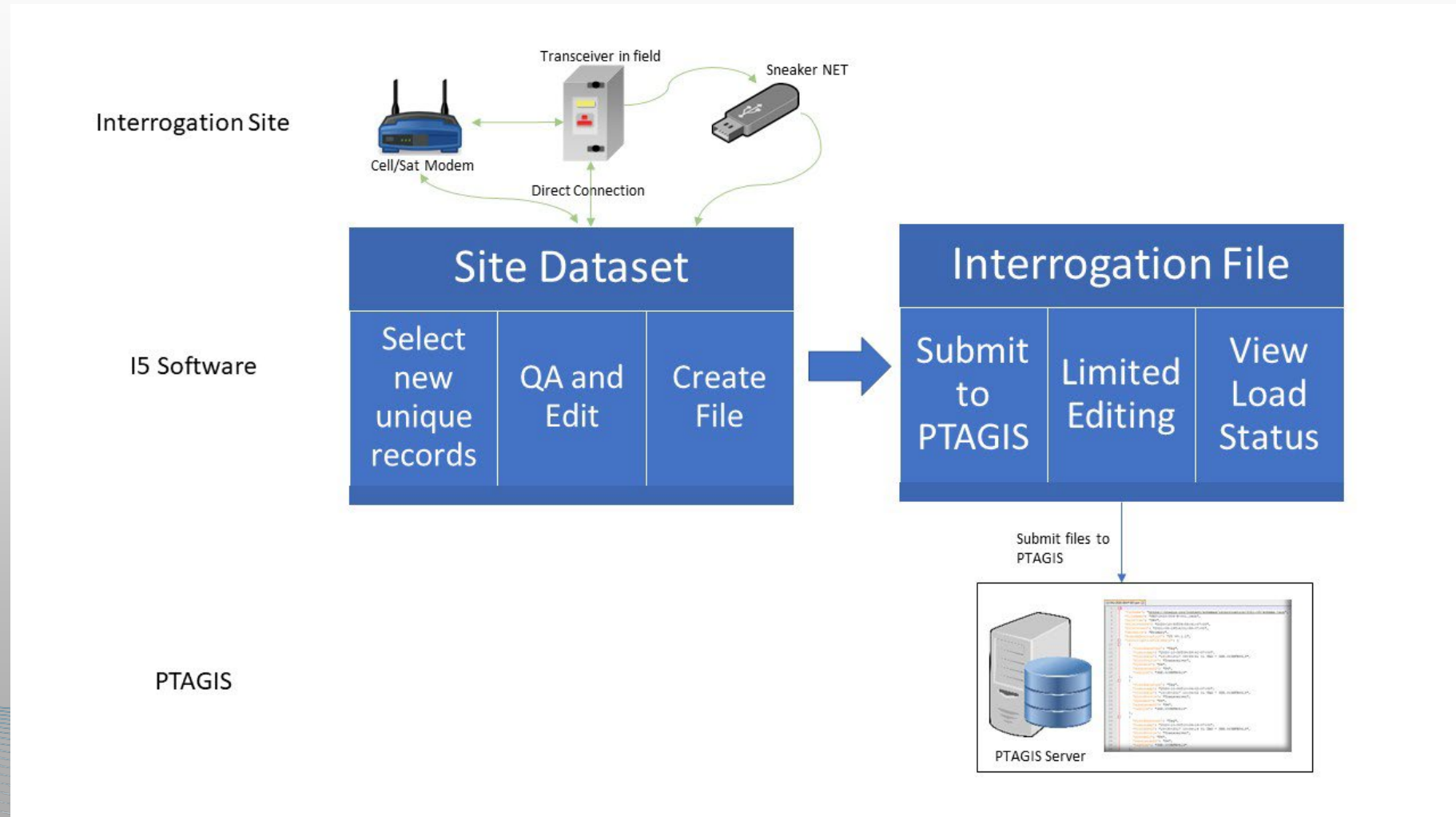
File Submission: Uploaded and archived 1 file on 1/19/2024 11:00 AM.
Configuration: Upload and archive data files every 30 minutes

Separation-by-Code: SbyC service is running.
Configuration: Configuration build file GOJ-SBYC-2023-004.json modified 9/27/2023 9:46 AM

Time	Source ID	Field Data	SbyC Action	Action Code	SbyC Gate Action	Latency (ms)
01/19/2024 11:09:11	01	FDXB Signal Level: 15 mV (1%)				
01/19/2024 11:09:11	01	Temperature: 25.4 C				
01/19/2024 11:09:11	01	Lithium Battery Voltage: 3.6 V				
01/19/2024 11:09:11	01	VTT Level: 68%				
01/19/2024 11:09:11	01	Sync. Input Present: No				
01/19/2024 11:09:11	01	Sec. Master Active N/A				
01/19/2024 11:09:11	01	Active Alarms:				
01/19/2024 11:09:11	01	No Active Alarms				
01/19/2024 11:09:11	01	SRP: 01 01/19/2024 11:11:11.980 01,16,0,7,30,99,254,36,147,137..				
01/19/2024 11:09:11	01	INF: End Of Full Status Report				
01/19/2024 11:09:11	F1	MESSAGE: Single-shot test with Test Tag.				
01/19/2024 11:09:11	F1	F1 3E7.0000001DF1				
01/19/2024 11:09:11	01	INF: Start Of Noise Report				
01/19/2024 11:09:11	01	Present Noise 33 mV (4%)				
01/19/2024 11:09:11	01	Maximum Noise 80 mV (9%)				
01/19/2024 11:09:11	01	Average Noise 34 mV (3%)				
01/19/2024 11:09:11	01	Time Averaged Over 0:10:00				
01/19/2024 11:09:11	01	NRP: 01 01/19/2024 11:11:12.980 4,9,3,600				
01/19/2024 11:09:11	01	INF: End Of Noise Report				
01/19/2024 11:09:11	F1	MESSAGE: Test Tag Found.				
01/19/2024 11:09:12	C4	MESSAGE: Single-shot test with Test Tag.				
01/19/2024 11:09:12	C4	C4 3E7.0000001DC4	Ignore		No Operation	
01/19/2024 11:09:12	C4	MESSAGE: Test Tag Found.				
01/19/2024 11:09:20	A4	MESSAGE: Single-shot test with Test Tag.				
01/19/2024 11:09:20	A4	A4 3E7.0000001DA4	Ignore		No Operation	
01/19/2024 11:09:21	A4	MESSAGE: Test Tag Found.				
01/19/2024 11:09:21	03	MSG: 03 01/19/2024 11:10:36.980 Test Tag Single Shot Fired				
01/19/2024 11:09:22	03	TAG: 03 01/19/2024 11:10:37.070 3E7.0000001D03				
01/19/2024 11:09:22	03	MSG: 03 01/19/2024 11:10:37.070 VTT Test Passed				
01/19/2024 11:09:22	E1	MESSAGE: Single-shot test with Test Tag.				

Connected to M5 Monitor Service 2.1.8 on goj-primary.ptagisdcp.psmfc.org. Scroll Lock: Off

Portland Team Update: I5 Interrogation Software



Portland Team Update: I5 Interrogation Software

IS v0.1.8 - Site Dataset

Site Dataset Information

Name: AH1 files Created: 01/21/2022 14:25:07

Site: AH1 Ahtanum at Lasalle HS Show Transceivers Modified: 01/25/2022 12:35:37

Save

Reset

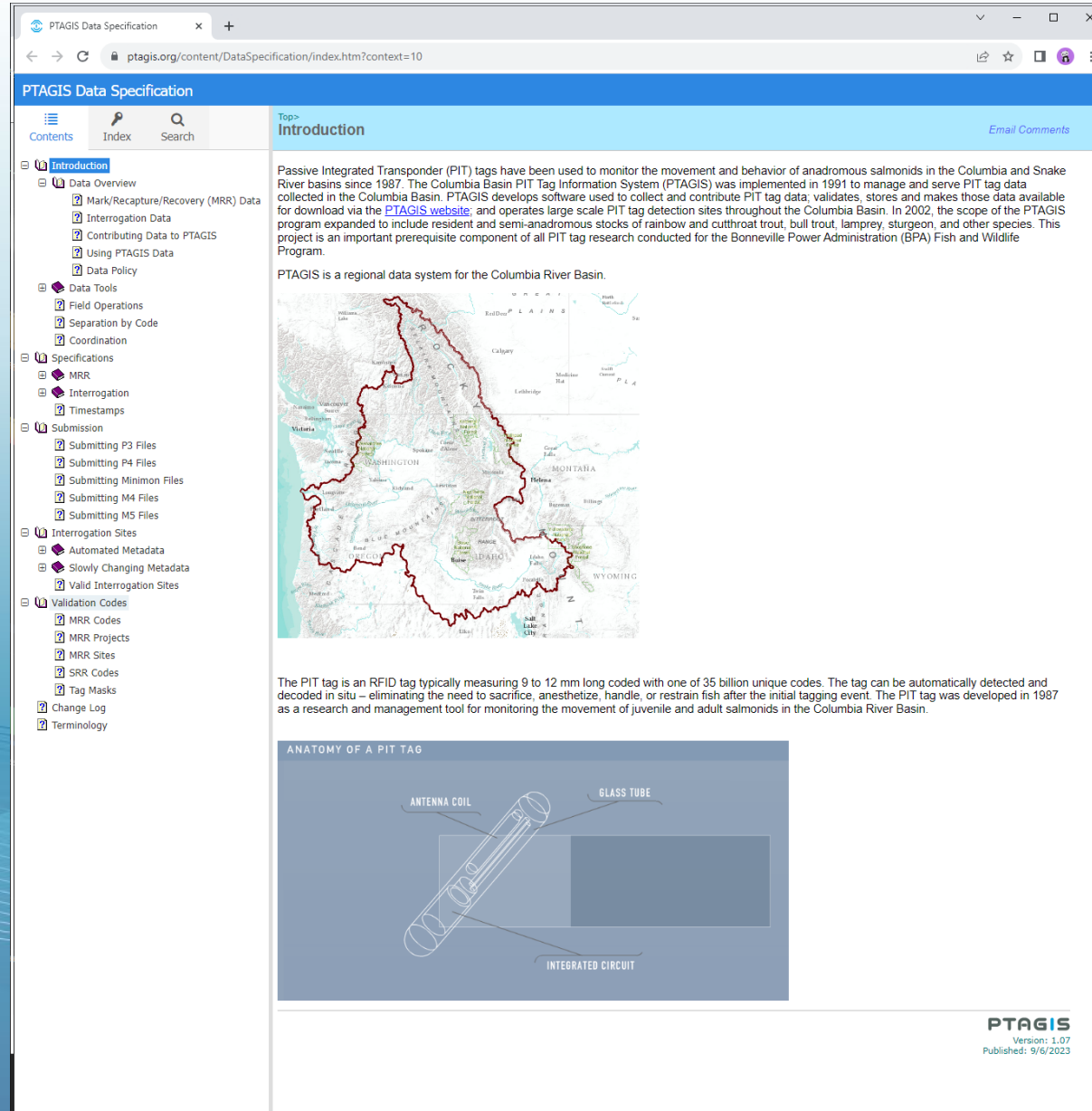
Data Sources Combined Parsed Data

Flag: Unique Records Hide Duplicates Hide Used Create File

Data Source	Timestamp	Transceiver ID	Antenna ID	Field Type	Value Type	Value	Duplicate	File Name	Submitted
IS1001-MTS-BufferDownload 01-25-2022	05/27/2021 09:21:46	01	09	TagCode	General	3E7.0000001D09	No		No
IS1001-MTS-BufferDownload 01-25-2022	05/27/2021 09:21:46	01	01	TagCode	General	3E7.0000001D01	No		No
IS1001-MTS-BufferDownload 01-25-2022	05/27/2021 09:21:46	01	03	TagCode	General	3E7.0000001D03	No		No
IS1001-MTS-BufferDownload 01-25-2022	05/27/2021 09:21:46	01	05	TagCode	General	3E7.0000001D05	No		No
IS1001-MTS-BufferDownload 01-25-2022	05/27/2021 10:21:46	01	08	TagCode	General	3E7.0000001D08	No		No
IS1001-MTS-BufferDownload 01-25-2022	05/27/2021 10:21:46	01	09	TagCode	General	3E7.0000001D09	No		No
IS1001-MTS-BufferDownload 01-25-2022	05/27/2021 10:21:46	01	01	TagCode	General	3E7.0000001D01	No		No
IS1001-MTS-BufferDownload 01-25-2022	05/27/2021 10:21:46	01	03	TagCode	General	3E7.0000001D03	No		No
IS1001-MTS-BufferDownload 01-25-2022	05/27/2021 10:21:46	01	05	TagCode	General	3E7.0000001D05	No		No
IS1001-MTS-BufferDownload 01-25-2022	05/27/2021 11:21:46	01	08	TagCode	General	3E7.0000001D08	No		No
IS1001-MTS-BufferDownload 01-25-2022	05/27/2021 11:21:46	01	09	TagCode	General	3E7.0000001D09	No		No
IS1001-MTS-BufferDownload 01-25-2022	05/27/2021 11:21:46	01	01	TagCode	General	3E7.0000001D01	No		No
IS1001-MTS-BufferDownload 01-25-2022	05/27/2021 11:21:46	01	03	TagCode	General	3E7.0000001D03	No		No
IS1001-MTS-BufferDownload 01-25-2022	05/27/2021 11:21:46	01	05	TagCode	General	3E7.0000001D05	No		No

Combined Parsed Values: 1,002

Portland Team Update: PTAGIS Website




The screenshot displays the PTAGIS Data Specification website. The browser address bar shows the URL ptagis.org/content/DataSpecification/index.htm?context=10. The page title is "PTAGIS Data Specification". The navigation menu includes "Contents", "Index", and "Search". The main content area is titled "Introduction" and features a "Top" link and an "Email Comments" link.

Introduction

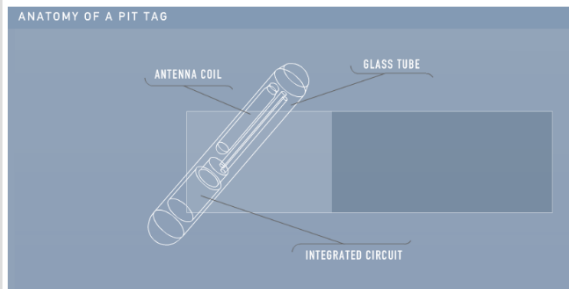
Passive Integrated Transponder (PIT) tags have been used to monitor the movement and behavior of anadromous salmonids in the Columbia and Snake River basins since 1987. The Columbia Basin PIT Tag Information System (PTAGIS) was implemented in 1991 to manage and serve PIT tag data collected in the Columbia Basin. PTAGIS develops software used to collect and contribute PIT tag data, validates, stores and makes those data available for download via the [PTAGIS website](#), and operates large scale PIT tag detection sites throughout the Columbia Basin. In 2002, the scope of the PTAGIS program expanded to include resident and semi-anadromous stocks of rainbow and cutthroat trout, bull trout, lamprey, sturgeon, and other species. This project is an important prerequisite component of all PIT tag research conducted for the Bonneville Power Administration (BPA) Fish and Wildlife Program.

PTAGIS is a regional data system for the Columbia River Basin.



The map shows the Columbia River Basin, a large region in the Pacific Northwest of North America, outlined in red. It covers parts of Washington, Oregon, Idaho, and Montana. Major cities like Vancouver, Seattle, Portland, Boise, and Salt Lake City are marked. The map also shows the Pacific Ocean, the Snake River, and the Columbia River.

The PIT tag is an RFID tag typically measuring 9 to 12 mm long coded with one of 35 billion unique codes. The tag can be automatically detected and decoded in situ – eliminating the need to sacrifice, anesthetize, handle, or restrain fish after the initial tagging event. The PIT tag was developed in 1987 as a research and management tool for monitoring the movement of juvenile and adult salmonids in the Columbia River Basin.



ANATOMY OF A PIT TAG

The diagram illustrates the internal structure of a PIT tag. It consists of a cylindrical glass tube containing an antenna coil and an integrated circuit. The antenna coil is a series of loops wrapped around the tube, and the integrated circuit is a small rectangular component at the bottom of the tube.

PTAGIS
Version: 1.07
Published: 9/6/2023

Portland Team Update: PTAGIS Dashboard Website

The screenshot displays a web browser window with the PTAGIS dashboard. The browser's address bar shows the URL `dashboard.ptagis.org/TagDistribution/Edit?id=7424`. The dashboard header includes the PTAGIS logo and a user greeting "Hello, John". A left-hand navigation menu lists various dashboard sections, with "Tag Distribution" selected. The main content area is titled "Edit PIT Tag Distribution Request" and contains a form with the following fields:

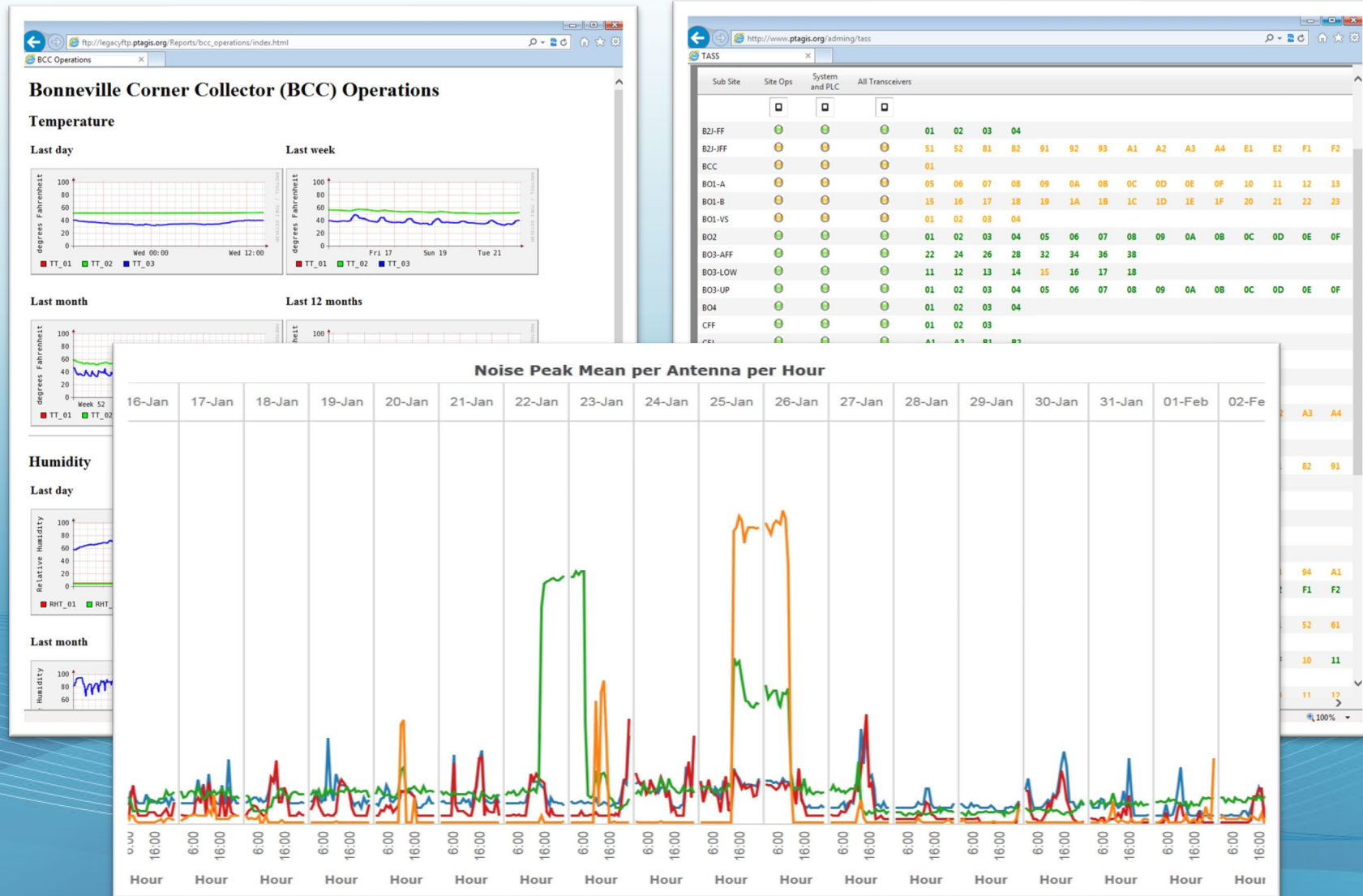
- FWP Project Number:** A dropdown menu with the value "2008-503-00".
- Earliest Ship Date:** A date input field with the value "04/01/2024".
- Standard 12mm Tags (12mm):** A numeric input field with the value "0".
- Standard 9mm Tags (9mm):** A numeric input field with the value "0".
- Latest Ship Date:** A date input field with the value "04/19/2024".
- Preloaded 12mm Tags (12pl):** A numeric input field with the value "5000".
- Preloaded 9mm Tags (9pl):** A numeric input field with the value "0".

Below the form fields is a section titled "Shipping Address" with the following text and fields:

All fields marked with an asterisk (*) are required for tags to be shipped.
** At least one of these fields is also required.

- Previous Recipients:** A dropdown menu with the value "Choose Recipient".
- Recipient Name**:** An input field with the value "Carley Simpson".
- Organization*:** A dropdown menu with the value "Okanagan Nation Alliance".
- Office Name**:** An input field with the value "Kl cp'elk'stim' Hatchery & Field Of".
- Street*:** An input field with the value "155 Enowkin Trail".
- City*:** An input field with the value "Dawson".
- State or Province*:** A dropdown menu with the value "BC".

Portland Team Update: PTAGIS Dashboard Website – O&M Reports



Portland Team Update: PTAGIS Advanced Reporting

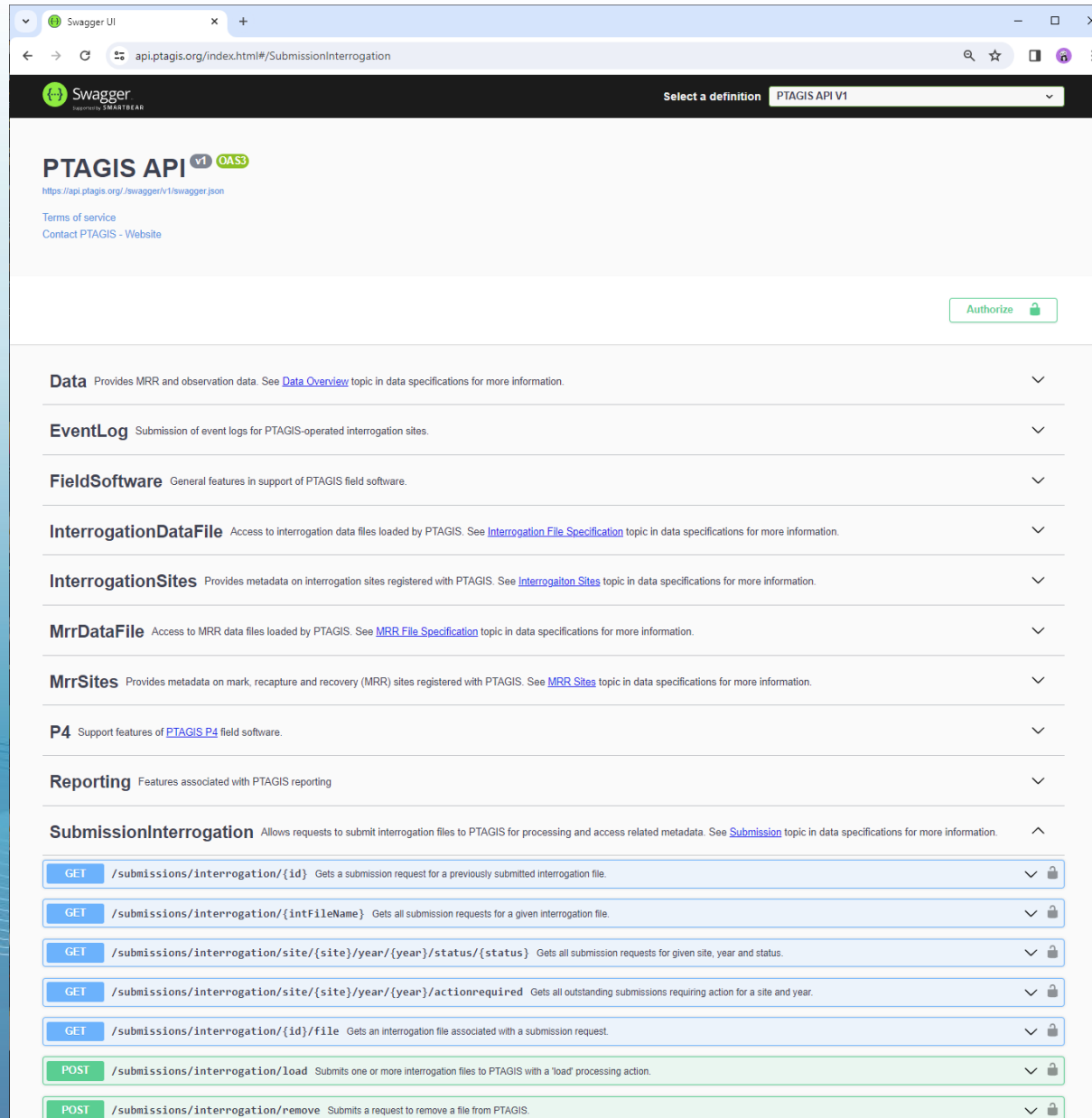
The screenshot shows the PTAGIS web application interface for 'Interrogation Summary 3'. The browser address bar shows 'ptagisbi.ptagis.org/PTAGIS/asp/Main.aspx'. The report filter is set to '(Mark Year = 2023) And (Site = GRS - Lower Granite Dam Spillway)'. The main data table displays 221 pages of data with columns for Tag, Mark File, Site, First Time, Last Time, First Antenna Group, Last Antenna Group, Release Date, Species Code, Species Name, Run Code, Run Name, Rear Type Code, Rear Type Name, Release Site, Count, and Last Obs Date Max.

An 'E-mail Subscription' dialog box is open, allowing users to subscribe to this report. The dialog includes the following fields and options:

- Name:** Interrogation Summary 3 1/19/24 3:20:54 PM
- Report:** Interrogation Summary 3
- Schedule:** 1 AM Nightly
- To:** John
- Send:** Data in email
- Delivery Format:** HTML (checked), Compress contents (unchecked)
- Subject:** Interrogation Summary 3
- Message:** (Empty text area)
- Send a preview now
- Advanced Options

Buttons for 'OK' and 'Cancel' are located at the bottom of the dialog. The background table shows various release records, including those for Chinook and Steelhead species at the JOHTRP - Johnson Creek Trap and SALR1 - Salmon River - mouth to above French Creek (km 0-171) hatchery.

Portland Team Update: PTAGIS API



Swagger UI

api.ptagis.org/index.html#/SubmissionInterrogation

Select a definition: PTAGIS API V1

PTAGIS API ^{v1} OAS3

<https://api.ptagis.org/swagger/v1/swagger.json>

[Terms of service](#)
[Contact PTAGIS - Website](#)

[Authorize](#)

- Data** Provides MRR and observation data. See [Data Overview](#) topic in data specifications for more information.
- EventLog** Submission of event logs for PTAGIS-operated interrogation sites.
- FieldSoftware** General features in support of PTAGIS field software.
- InterrogationDataFile** Access to interrogation data files loaded by PTAGIS. See [Interrogation File Specification](#) topic in data specifications for more information.
- InterrogationSites** Provides metadata on interrogation sites registered with PTAGIS. See [Interrogation Sites](#) topic in data specifications for more information.
- MrrDataFile** Access to MRR data files loaded by PTAGIS. See [MRR File Specification](#) topic in data specifications for more information.
- MrrSites** Provides metadata on mark, recapture and recovery (MRR) sites registered with PTAGIS. See [MRR Sites](#) topic in data specifications for more information.
- P4** Support features of [PTAGIS P4](#) field software.
- Reporting** Features associated with PTAGIS reporting
- SubmissionInterrogation** Allows requests to submit interrogation files to PTAGIS for processing and access related metadata. See [Submission](#) topic in data specifications for more information.

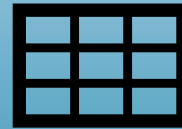
GET	/submissions/interrogation/{id}	Gets a submission request for a previously submitted interrogation file.	🔒
GET	/submissions/interrogation/{intFileName}	Gets all submission requests for a given interrogation file.	🔒
GET	/submissions/interrogation/site/{site}/year/{year}/status/{status}	Gets all submission requests for given site, year and status.	🔒
GET	/submissions/interrogation/site/{site}/year/{year}/actionrequired	Gets all outstanding submissions requiring action for a site and year.	🔒
GET	/submissions/interrogation/{id}/file	Gets an interrogation file associated with a submission request.	🔒
POST	/submissions/interrogation/load	Submits one or more interrogation files to PTAGIS with a 'load' processing action.	🔒
POST	/submissions/interrogation/remove	Submits a request to remove a file from PTAGIS.	🔒

Portland Team Update: PTAGIS Database Utilization

Data input into
database in 2023:



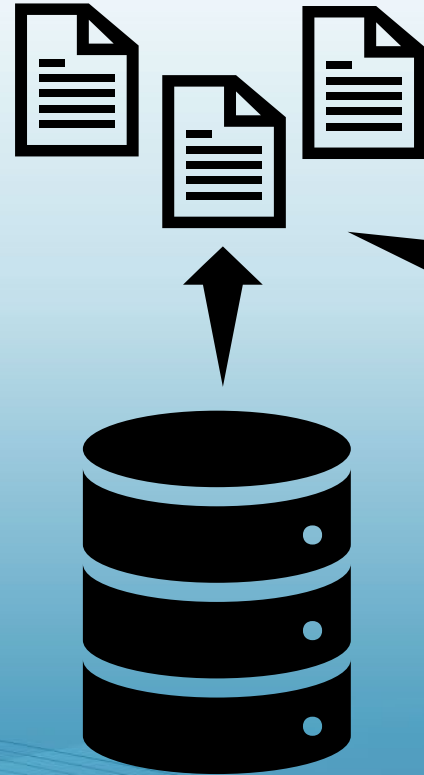
925,497 data files



711,096,655
data and diagnostic records
(81,175 records/hour avg.)

Portland Team Update: PTAGIS Database Utilization

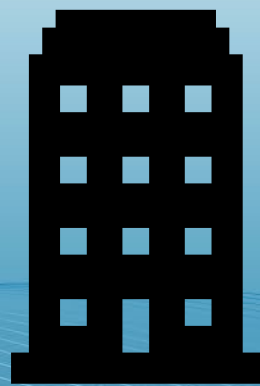
Data output from
database in 2023:



603,683 data reports

27,655,698,318
data and diagnostic records
(3,157,043 records/hour avg.)

PTAGIS to the Cloud...and Back

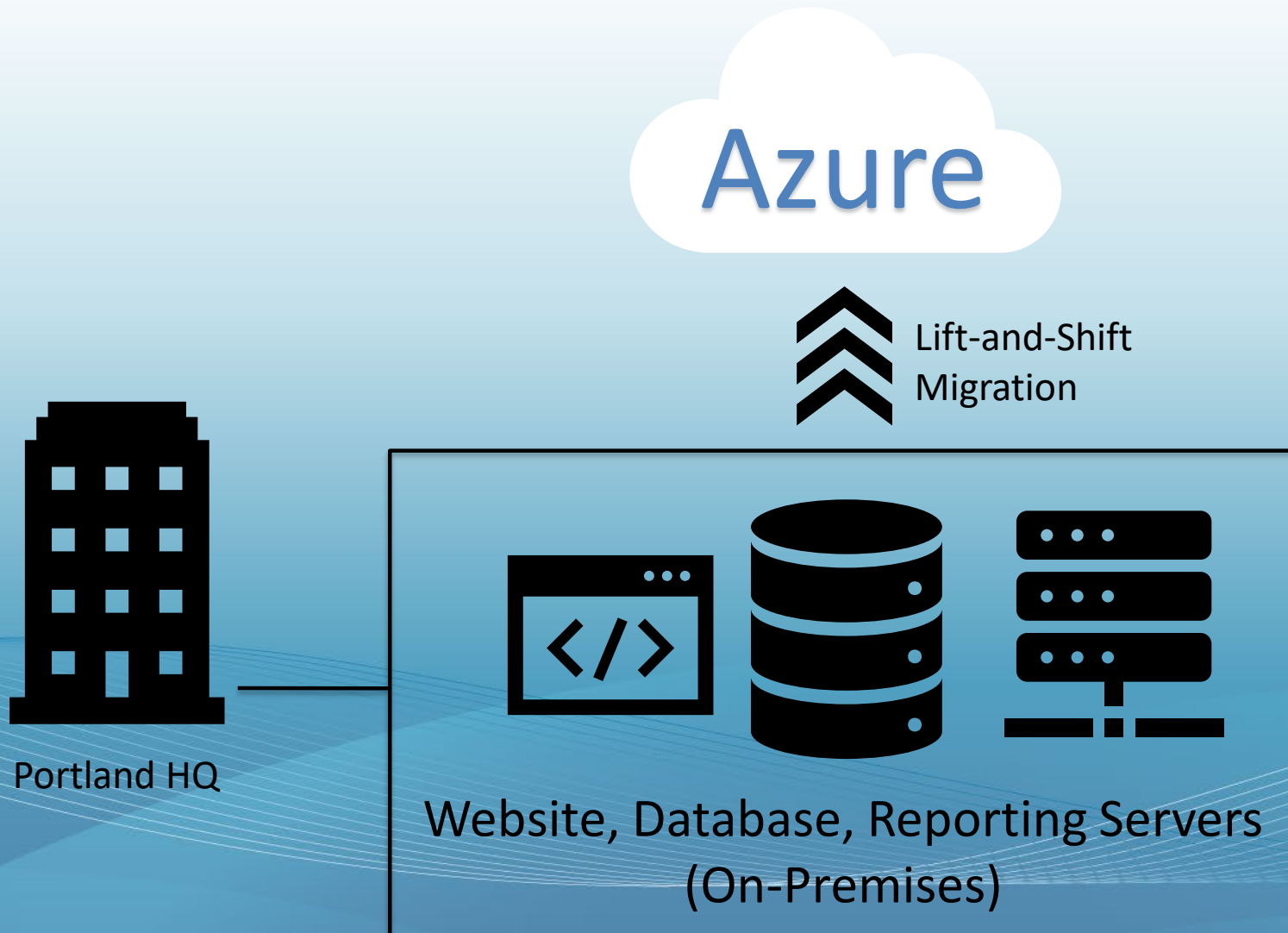


Portland HQ

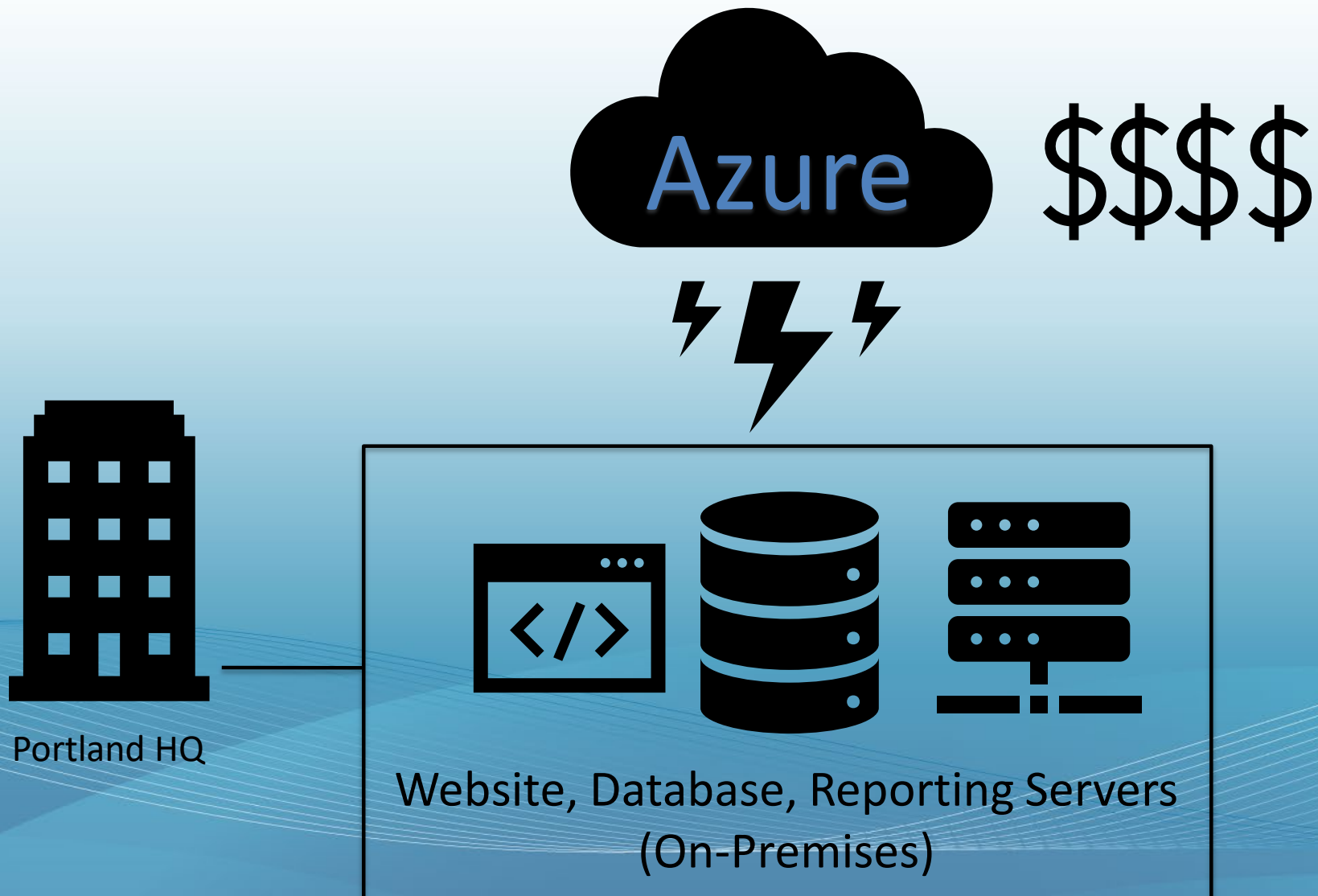


Website, Database, Reporting Servers
(On-Premises)

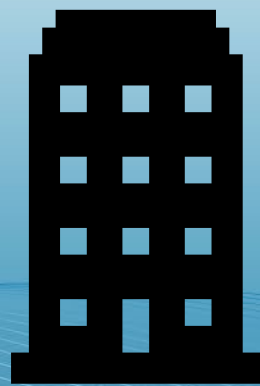
PTAGIS to the Cloud...and Back



PTAGIS to the Cloud...and Back



PTAGIS to the Cloud...and Back



Portland HQ



Website, Database, Reporting Servers
(On-Premises)