

Project Work Plan

Lower Columbia Total-Dissolved-Gas (TDG) Monitoring: The Dalles Dam US Geological Survey Oregon Water Science Center

Project personnel

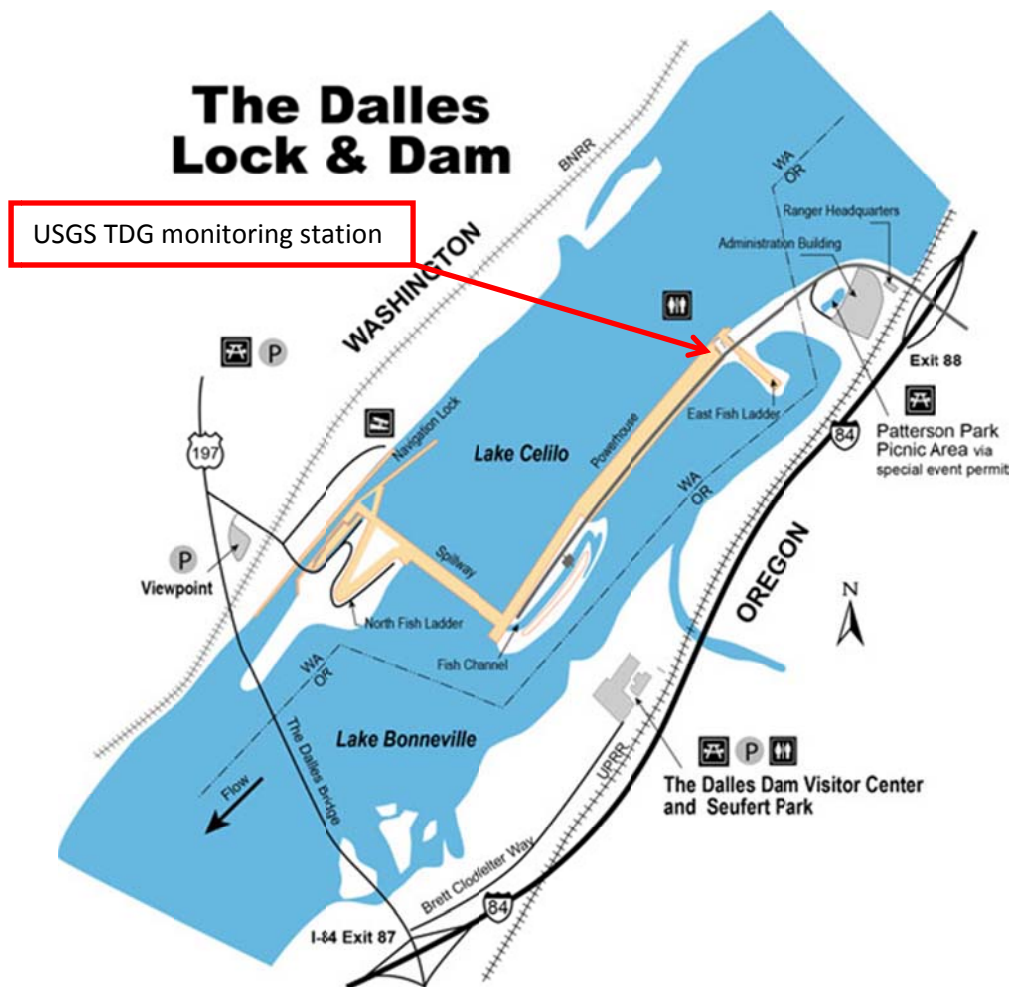
Heather Bragg, Danial Polette, Jonathan Haynes

Dates of operation

March 16, 2015 to September 25, 2015 (annually mid-March to mid-September)

Location

Monitoring is conducted at the far northeast corner of the upper deck of the powerhouse.



Equipment

Steel cabinet, steel post, satellite antenna, GPS antenna, extension cord to A/C power outlet, Powersonic battery float charger, solar panel, Morningstar voltage regulator, 12-volt battery, Sutron

SatLink2 data collection platform, Vaisala barometric pressure sensor, Hach MS5 multi-parameter water-quality instrument and cable, rope with weight secured to railing.



Work performed

The initial site visit (mid-March) includes installing all equipment not left at the site the previous year. Regular site visits to assess the quality of data are scheduled every 3 weeks after the installation through mid-September, when the equipment is removed. A site visit includes deploying a reference instrument, retrieving the instrument that had been deployed for 3 weeks, and deploying a newly calibrated instrument. A typical site visit takes about 2 hours. Occasionally, an unscheduled site visit may be necessary if there appears to be a problem with data quality, power loss, etc.

Post-work coordination

The following equipment remains at the site year-round: Steel cabinet, steel post, satellite antenna, solar panel, Morningstar voltage regulator, 12-volt battery.

Project Impact Statement

The TDG monitoring will have no effect on the normal operations and maintenance of the dam.

Activity Hazard Analysis

See USGS Job Hazard Analysis (JHA) attached.

Material Safety Data Sheet

No hazardous materials are used or brought onto the dam project.

Permits

No permits are required.

Funding

Funding for fiscal year 2015 has been secured from the USACE Portland District.

General Safety

All USGS field personnel are required to maintain current CPR and First Aid training, complete driver safety training, and wear appropriate safety gear and clothing.

HECP (IP) training completion forms attached.

Security Access

Security access forms for Heather Bragg and Danial Polette attached. Digital photos of both should be on file with security office. Key cards are requested in order to assure access to the top deck of the powerhouse.

The vehicle most commonly used by USGS personnel for the site visits is a 2008 dark green Ford E150 cargo van (license plate I-431366). Occasionally, this vehicle is not available and another government vehicle may be used.

Pagers

In the past, USGS personnel have not been required to carry pagers due to the short duration of time spent on the dam project. The current procedure requires USGS personnel to call or visit the on-site fisheries office when arriving and leaving the project.

Job Hazard Analysis (JHA) for Total Dissolved Gas sites

<u>USACE STATION ID</u>	<u>Site Name</u>	<u>USGS STATION ID</u>
CWMW	Camas	453439122223900
WRNO	Warrendale	453630122021400
CCIW	Cascade Island	453845121564001
BON	Bonneville	453845121562000
TDDO	The Dalles at USGS gage	14105700
TDA	The Dalles forebay	453712121071200
JHAW	John Day tailwater	454249120423500
JDY	John Day at Nav. lock	454314120413701

Prepared By: Tanner, Bragg 6/04 Reviewed By: Kevin Knutson

Basic Job Steps	Potential Accidents/Hazards	Recommended Safe Job Procedures
Driving to and from the site	Traffic accident	Stay alert to driving conditions and obey all traffic laws. Reduce speed for hazardous conditions. Drive defensively. The driver and all passengers must wear a seat belt. Maintain the vehicle in a safe condition.
Backing van with obstructed rear view	Collision with another vehicle, fixed object, or person	Whenever possible, avoid the need for backing by parking in a location that permits a forward exit. When possible, have a helper guide the driver. Check the area behind the vehicle before getting in the vehicle to back. Turn down the radio, crack the window, and check your mirrors before backing. Keep your foot near the brake pedal while backing.
Loading and unloading equipment	Pinching fingers, crushing toes, back strain	Use caution, be aware of hand placement, and use proper lifting techniques (i.e. lift with legs, not back; get assistance if needed). Wear gloves, steel-toed shoes, and back support, as needed.
Working near outdoor AC power	Electric shock or electrocution	Outdoor AC power is located at JDY, TDA, BON, and WRNO. A ground fault circuit interrupter must protect all outdoor AC circuits. Make sure that electrical cords are not allowed to be in contact with water. Do not stand in a wet area while operating power equipment.
Walking at the field site	Trips and falls Dehydration and sun stroke Sunburn Hypothermia Drowning Injury from lightning or wind	Check that path is clear and footing is sound. Drink plenty of liquids and rest in the shade if necessary. Use sunglasses, hat, sunscreen, and protective clothing. Wear foul-weather gear. Wear a personal flotation device (PFD) at all sites when over or near water. Do not leave the vehicle during severe weather.

THE DALLES PROJECT ACCESS REQUEST

(This form is to be submitted a minimum of 24 hours prior to badge issue)

SECTION I: GENERAL

1. NAME (Last, First, MI)

Bragg, Heather M.

2. COMPANY NAME

US Geological Survey

3. PHONE

503-251-3224

4. REQUESTED DATES OF ACCESS

03/01/15 to 09/30/15

5. POWERHOUSE ACCESS REQUIRED? (If unescorted access is required, please fill SECTION II)

Unescorted Escorted Powerhouse Access not required

6. US CITIZEN

Yes No (specify citizenship)

7. E-MAIL ADDRESS

hmbragg@usgs.gov

For Contractors, complete boxes 8 through 12

8. PRIMARY CONTRACTOR

US Geological Survey

9. PHONE

503-251-3224

10. CONTRACT WORK DESCRIPTION

Total Dissolved Gas monitoring

11. ACCESS AREAS

NE end of top deck of powerhouse only

12. WORK HOURS

6am - 6pm 24hrs Weekends

SECTION II: BADGE REQUEST

13. REASON FOR ISSUANCE

New Application Renewal Lost Stolen Damaged
 Other (specify):

14. DATE OF BIRTH

02/14/72

15. PLACE OF BIRTH

Greeley, CO

16. IDENTIFICATION

ID#

ODL#9150793

State/Issuing Agency

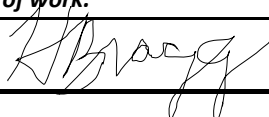
Oregon

Expiration

02/14/20

I agree not to loan, transfer, misuse, or modify ID Badge. I agree to return to the Security Office the Proximity Card issued to me upon completion of work.

17. APPLICANT SIGNATURE



18. DATE

02/02/15

For The Dalles use only

19. THE DALLES POINT OF CONTACT

a. NAME

b. SIGNATURE

c. DATE

20. RELIABILITY COMPLIANCE

a. NAME

b. SIGNATURE

c. DATE

21. N/A

a. NAME

b. SIGNATURE

c. DATE

22. BADGE ISSUED BY

a. NAME

b. SIGNATURE

c. DATE

23. BADGE NUMBER ISSUED

24. EXPIRATION DATE

25. BADGE ISSUED

TD Employee USACE Employee Contractor Visitor (Escorted)

Other Fed Agency _____

POWERHOUSE ACCESS? YES / NO

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6. US CITIZEN

Yes No (specify citizenship) _____

7. E-MAIL ADDRESS

For Contractors, complete boxes 8 through 12

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9. PHONE

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12. WORK HOURS

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 Other (specify): _____

14. DATE OF BIRTH

15. PLACE OF BIRTH

16. IDENTIFICATION

ID#

State/Issuing Agency

Expiration

I agree not to loan, transfer, misuse, or modify ID Badge. I agree to return to the Security Office the Proximity Card issued to me upon completion of work.

17. APPLICANT SIGNATURE

18. DATE

February 9, 2015

For The Dalles use only

19. THE DALLES POINT OF CONTACT

a. NAME

b. SIGNATURE

c. DATE

20. RELIABILITY COMPLIANCE

a. NAME

b. SIGNATURE

c. DATE

21. N/A

a. NAME

b. SIGNATURE

c. DATE

22. BADGE ISSUED BY

a. NAME

b. SIGNATURE

c. DATE

23. BADGE NUMBER ISSUED

24. EXPIRATION DATE

25. BADGE ISSUED

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Other Fed Agency _____

POWERHOUSE ACCESS? YES / NO

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18. DATE

02/03/15

For The Dalles use only

19. THE DALLES POINT OF CONTACT

a. NAME

b. SIGNATURE

c. DATE

20. RELIABILITY COMPLIANCE

a. NAME

b. SIGNATURE

c. DATE

21. N/A

a. NAME

b. SIGNATURE

c. DATE

22. BADGE ISSUED BY

a. NAME

b. SIGNATURE

c. DATE

23. BADGE NUMBER ISSUED

24. EXPIRATION DATE

25. BADGE ISSUED

TD Employee USACE Employee Contractor Visitor (Escorted)

Other Fed Agency _____

POWERHOUSE ACCESS? YES / NO

The Dalles Lock and Dam HECP Training
Hazardous Energy Control Program
for
Incidental Persons

I, the undersigned, do acknowledge that I have read the HECP, Incidental Persons materials.

HB
(initials)

I, the undersigned, do acknowledge that I understand the HECP, Incidental Persons materials.

HB
(initials)

I, the undersigned, understand that if I have any questions or concerns about the HECP, Incidental Persons materials I have read, that I am to discuss those concerns with my Point of Contact (POC) prior to signing:

HB
(initials)

Name: Heather Bragg
(please print neatly or you will not receive credit for the training)


Date: 02/02/15

Company: U.S. Geological Survey

Signature: H Bragg

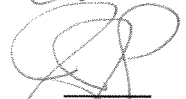
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Hazardous Energy Control Program
for
Incidental Persons

I, the undersigned, do acknowledge that I have read the HECP, Incidental Persons materials.



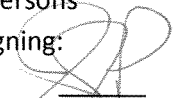
(initials)

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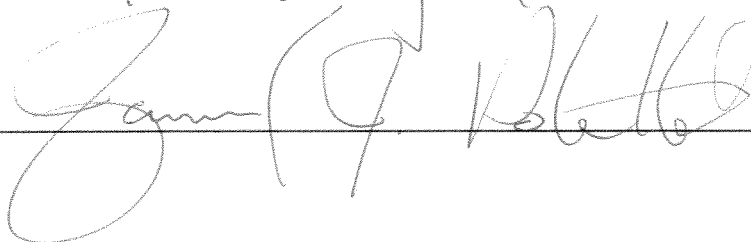


(initials)

Name: Daniel James Polette
(please print neatly or you will not receive credit for the training)

Date: February 9, 2015

Company: U.S. Geological Survey

Signature: 

The Dalles Lock and Dam HECP Training
Hazardous Energy Control Program
for
Incidental Persons

I, the undersigned, do acknowledge that I have read the HECP, Incidental Persons materials.

JVA
(initials)

I, the undersigned, do acknowledge that I understand the HECP, Incidental Persons materials.

JVA
(initials)

I, the undersigned, understand that if I have any questions or concerns about the HECP, Incidental Persons materials I have read, that I am to discuss those concerns with my Point of Contact (POC) prior to signing:

JVA
(initials)

Name: Jonathan Haynes
(please print neatly or you will not receive credit for the training)

Date: 2/3/2015

Company: U.S. Geological Survey

Signature: Jonathan Haynes