# Project Work Plan

## Lower Columbia Total-Dissolved-Gas (TDG) Monitoring: The Dalles Dam

## US Geological Survey Oregon Water Science Center

### Project personnel

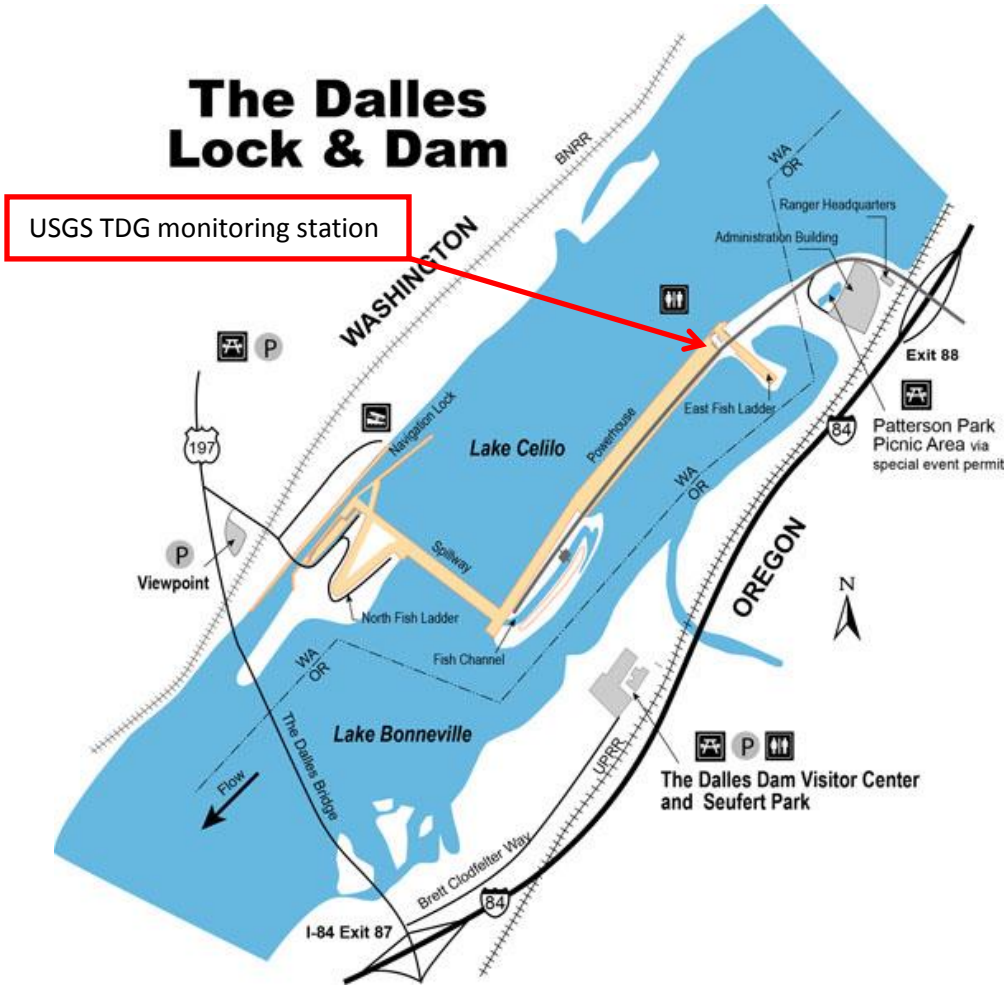
Heather Bragg, Danial Polette

### Dates of operation

March 12, 2014 to September 19, 2014 (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 2014 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

| USACE STATION ID | Site Name | USGS STATION ID |
|---|---|---|
| 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.<br>When possible, have a helper guide the driver.<br>Check the area behind the vehicle before getting in the vehicle to back.<br>Turn down the radio, crack the window, and check your mirrors before backing.<br>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.<br>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<br>Dehydration and sun stroke<br>Sunburn<br>Hypothermia<br>Drowning<br>Injury from lightning or wind | Check that path is clear and footing is sound.<br>Drink plenty of liquids and rest in the shade if necessary.<br>Use sunglasses, hat, sunscreen, and protective clothing.<br>Wear foul-weather gear.<br>Wear a personal flotation device (PFD) at all sites when over or near water.<br>Do not leave the vehicle during severe weather. |

1 copy in station folder
1 copy in field folder

# 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: 02/27/14

Company: US Geological Survey

Signature: H Bragg

# The Dalles Lock and Dam HECP Training

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## Incidental Persons

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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. (initials)

Name: Daniel J. Polette

*(please print neatly or you will not receive credit for the training)*

Date: February 27, 2014

Company: U.S. Geological Survey

Signature: Daniel J. Polette

# 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
03/01/14 to 10/15/14

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# | State/Issuing Agency | Expiration |
|---|---|---|
| ODL# 9150793 | Oregon | 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
Heather Bragg
2014.02.27 14:28:24 -08'00'

18. DATE

## *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 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)*
Polette, Danial, J.

2. COMPANY NAME
U.S. Geological Survey

3. PHONE
(503) 251-3281

4. REQUESTED DATES OF ACCESS
March 1, 2014 through October 15, 2014

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
dpolette@usgs.gov

***For Contractors, complete boxes 8 through 12***

8. PRIMARY CONTRACTOR
U.S. Geolocial Survey

9. PHONE
(503) 251-3281

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
March 13, 1964

15. PLACE OF BIRTH
Portland, Oregon

16. IDENTIFICATION

| ID# | State/Issuing Agency | Expiration |
|---|---|---|
| 4029046 | Oregon | March 13, 2018 |

***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 Danial J. Polette

18. DATE
February 27, 2014

***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