

Environmental Checklist

File

No.

Purpose of Checklist:

The State Environmental Policy Act (SEPA) chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An Environmental Impact Statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for Applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can.

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply." Complete answers to the questions now may avoid unnecessary delays later.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Use of checklist for nonproject proposals:

Complete this checklist for nonproject proposals, even though questions may be answered "does not apply."

IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (Part D).

For nonproject actions, the references in the checklist to the words "project," "applicant," and "property or site" should be read as "proposal," "proposer," and "affected geographic area," respectively.

A. BACKGROUND

1. Name of proposed project, if applicable:

Howard Street South Channel Bridge (South Channel Bridge)

2. Name of applicant:

City of Spokane Parks and Recreation

3. Address and phone number of applicant or contact person:

Berry Ellison, Riverfront Park Program Manager

City of Spokane Parks and Recreation

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Spokane, WA 99201

(509) 363-5425

bellison@spokanecity.org

4. Date checklist prepared:

January 20, 2016

5. Agency requesting checklist:

City of Spokane Planning Services Department

6. Proposed timing or schedule (including phasing, if applicable):

June 1, 2016 through April 2017

7. a. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

No future additions or expansions to the South Channel Bridge. The future reconstruction of Riverfront Park will incorporate aesthetic features (addition of architectural lighting, pavement surface treatments, etc.) into the South Channel Bridge in the overall final design. Interim stormwater control for the bridge will be utilized until a final stormwater system is designed and constructed for the overall park and bridge improvements.

The temporary Theme Stream crossing will be replaced at a future date when the permanent crossing is relocated further north of the existing Theme Stream Bridge. This will be completed under a separate permitting process which includes a Shoreline Conditional Use Permit. In addition, the construction access road off of Post Street to the South Channel Bridge may be modified in the future when the Havermale Island is redesigned and constructed as part of the Riverfront Park Design of Major Public Spaces (MPS) project.

- b. Do you own or have options on land nearby or adjacent to this proposal? If yes, explain.

Yes, the project is located within Riverfront Park which is owned by the City of Spokane.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to his proposal.
- Phase I Environmental Site Assessment, Riverfront Park, GeoEngineers, 2014.
 - Cultural Resources Background Study for the Riverfront Park Bridges Inspection and Analysis, KPFF Consulting Engineers, 2014.
 - Draft Habitat Management Plan (HMP), GeoEngineers, 2015.
 - Howard Street South Channel Bridge Replacement Draft Hydraulic Report, CH2M, 2015 (under review by Avista).
 - Spokane Riverfront Park Historic Property Inventory of Pre-1975 Resources, Spokane, Washington, CH2M, 2016 (under review)
 - Historical Resources Technical Report for the Howard Street South Channel Bridge Replacement Project, Spokane, Washington, CH2M, 2016 (under preparation)
9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.
- No.
10. List any government approvals or permits that will be needed for your proposal, if known.
- SEPA Environmental Checklist, City of Spokane
 - Section 401, Washington State Department of Ecology (Ecology)
 - Section 404, United States Army Corps of Engineers (USACE)
 - Hydraulic Project Approval, Washington State Department of Fish and Wildlife (WDFW)
 - Shorelines Exemption, City of Spokane Planning
 - Critical Areas Review, City of Spokane Planning
 - Floodplain Development Permit, City of Spokane Planning
 - National Pollutant Discharge Elimination System (NPDES) and Stormwater Pollution Prevention Plan (SWPPP), Ecology
 - Approval based on Avista's Federal Energy Regulatory Commission (FERC) license
11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page.

The existing South Channel Bridge is a four span cast-in-place concrete bridge that has experienced significant deterioration and is classified as structurally deficient. The bridge is restricted to pedestrian traffic, which is limited to only portions of the bridge surface. The bridge will be replaced to accommodate pedestrian traffic and will be coordinated with the upcoming MPS project. The Sister Cities' site located northwest of the bridge will be the primary staging area for bridge construction. See Attachment A-Construction Figures-Theme Stream Crossing Figure 1.

As part of this project, the existing Theme Stream Bridge that crosses an artificial water feature (The Theme Stream that was constructed during Expo 74) north of Avista's Upper Falls Gate House, will be used to access the South Channel Bridge during construction. The Theme Stream Bridge will be removed and temporarily replaced with a crossing within the same bridge footprint. The crossing may consist of eco-blocks with fill placed in-between structurally sufficient to hold construction vehicles and equipment crossing the bridge (see cross sectional view in Attachment A, Theme Stream Crossing, Figure 1). Because of its temporary placement for construction access, it will be designed and constructed with a utilitarian nature. It will remain in place until a new Theme Stream Bridge is constructed north of the existing location. The Theme Stream water feature will be shut-off for approximately four (4) years until the permanent bridge and associated Theme Stream renovations are constructed.

12. Location of the proposal. Give sufficient information to a person to understand the precise location of your proposed project, including a street address, if any, and section, township and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit application related to this checklist.

The project is located within Riverfront Park, north of Spokane Falls Boulevard within the Howard Street roadway right-of-way. It is also within the forebay of Avista's Monroe Street Power House and within Riverfront Park (see Figures 1 and 2 for Vicinity Map and Location Map). Project is found in Section 18, Township 25 North, Range 43 East Willamette Meridian

13. Does the proposed action lie within the Aquifer Sensitive Area (ASA)? The General Sewer Service Area? The Priority Sewer Service Area? The City of Spokane? (See: Spokane County's ASA Overlay Zone Atlas for boundaries.)

Aquifer Sensitive Area (ASA)? Yes

General Sewer Service Area? Yes

Priority Sewer Service Area? Yes

City of Spokane? Yes

14. The following questions supplement Part A.

a. Critical Aquifer Recharge Area (CARA) / Aquifer Sensitive Area (ASA)

- (1) Describe any systems, other than those designed for the disposal of sanitary waste, installed for the purpose of discharging fluids below the ground surface (includes systems such as those for the disposal of stormwater or drainage from floor drains). Describe the type of system, the amount of material to be disposed of through the system and the types of material likely to be disposed of (including materials which may enter the system inadvertently through spills or as a result of firefighting activities).

An interim stormwater treatment plan will be in use until the permanent stormwater system is constructed towards the end of park redevelopment.

- 2) Will any chemicals (especially organic solvents or petroleum fuels) be stored in aboveground or underground storage tanks? If so, what types and quantities of material will be stored?

No.

- 3) What protective measures will be taken to insure that leaks or spills of any chemicals stored or used on site will not be allowed to percolate to groundwater. This includes measures to keep chemicals out of disposal systems.

A spill plan and SWPPP will be prepared that will outline any best management practices to minimize potential for any chemicals used or stored onsite during construction will be contained and properly handled. Spill containment measures and spill management will be specified. Spill kits will be on site during construction.

- (4) Will any chemicals be stored, handled or used on the site in a location where a spill or leak will drain to surface or groundwater or to a stormwater disposal system discharging to surface or groundwater?

No. Chemicals will be stored in upland areas away from water. Storm drains will be protected as outlined in the SWPPP.

b. Stormwater

- (1) What are the depths on the site to groundwater and to bedrock (if known)?

Groundwater depth is approximately 7 feet. Depth varies from surficial expressed bedrock to a depth to bedrock of approximately 35 feet.

- (2) Will stormwater be discharged into the ground? If so, describe any potential impacts?

Stormwater generated by the pedestrian bridge will temporarily use existing park dry wells/basins until the permanent treatment system is constructed towards the end of the park redevelopment. The permanent stormwater system will be infiltration areas that will supply water to new and existing habitats as mitigation for the project. A temporary SWPPP will be prepared for the project, which will identify erosion and sediment

control risks and propose BMPs to minimize potential water quality impacts to surface and groundwater.

B. ENVIRONMENTAL ELEMENTS

EARTH

- a. General description of the site (underline one): rolling, hilly, steep slopes, mountainous, other: Generally flat at South Channel Bridge except for Spokane River banks. Generally flat at existing Theme Stream Bridge except for the existing Theme Stream channel walls.

- b. What is the steepest slope on the site (approximate percent slope)?

Slopes at the riverbank use retaining walls except for one natural slope northwest of the South Channel Bridge at approximately a 3:1 slope. The existing Theme Stream channel also uses retaining walls.

- c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.

The general types of soils found on the riverbanks at this site are coarse-grained materials (sand and gravel) over basalt bedrock. Much of Riverfront Park is composed of imported fills of unknown origin and characteristics.

- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No.

- e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

South Channel Bridge fills [cubic yards (cy)]:

- Temporary rock access pads for bridge construction – 4,000 cy
- New concrete abutments – 370 cy (of that amount, the eddy under the north end of the bridge will be filled with approximately 180 cy of material). This filling action has been discussed and reviewed with aquatic permitting agencies including the Washington State Department of Fish and Wildlife (WDFW), the United States Army Corps of Engineers (USACE) and the Washington State Department of Ecology (Ecology).
- Concrete bridge piers – 145 cy

Theme Stream Crossing fills (cubic yards):

- Material placed between Ecology blocks at the existing Theme Stream Bridge – approximately 150 cy

The source of all fills will be from commercially available sources.

- f. Could erosion occur as a result of clearing, construction, or use? If so,

generally describe.

Yes, there is a potential for erosion during clearing, bridge demolition and construction of the temporary work pads/laydown areas, cofferdam installation and removal, debris containment, and drilled shaft casings.

- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

South Channel Bridge – The new bridge impervious surface will be less than the existing bridge because the new bridge is narrower. Existing impervious surface is 12,600 sq. ft. (180 ft. x 70 ft.) The replacement bridge impervious surface is approximately 10,440 sq. ft. (180 ft. x 58 ft.), which excludes the pervious deck surfaces. This is a reduction of approximately 17 percent in impervious surface area; however approximately 90 percent of the existing bridge site will be impervious surface.

Theme Stream Bridge Site – The impervious surface of existing Theme Stream Bridge and the existing access roadway to the park is approximately 64,000 sq. ft. Approximately 7,500 sq. ft. of additional impervious surface will be constructed to widen the roadway. Approximately 90 percent of the Theme Stream Bridge Site will be covered with impervious surface.

Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

A NPDES NOI will be obtained and a SWPPP will be prepared. Best management practices will be specified to minimize erosion and prevent transport of erosive materials during the South Channel Bridge project demolition and construction. This may include erosion control seeding or installing silt fence or fiber wattles as needed.

AIR

- a. What type of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial, wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

Temporary emissions will occur from construction vehicles. Minor dust may be emitted during earth moving activities during construction.

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No.

- c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Construction vehicles and equipment will be well maintained to minimize emissions. If necessary, dust control measures will be implemented. Disturbed soils will be vegetated or otherwise stabilized after construction according to the SWPPP and plan sheets.

1. WATER

- a. Surface:

(1) Is there any surface water body on or in the immediate vicinity of the site including year-round and seasonal streams, saltwater, lakes, ponds, wetlands? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Yes, Spokane River.

(2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

Yes, work will be within 200 feet of the Spokane River. Please see Attachment A-Construction Figures, Howard Street South Channel Bridge (Figures 1 and 2) and Theme Stream Crossing (Figure1) for plan and cross-sectional views. The Theme Stream Crossing Figure 1 includes the 200-foot shorelines jurisdiction boundary line.

(3) Estimate the amount of fill and dredge material that would be placed in or removed from the surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

South Channel Bridge fills (cubic yards):

- Temporary rock access pads for bridge construction – 4,000 (clean rock from a quarry or landscaping business)
- New concrete abutments – 370 (concrete vendor company). This amount includes approximately 180 cubic yards to fill-in the eddy under the north end of the South Channel Bridge.
- Concrete bridge piers – 145 (concrete vendor company)

Fill materials will be from approved and permitted commercially available sources.

(4) Will the proposal require surface water withdrawals or diversions? Give a general description, purpose, and approximate quantities, if known.

No, the proposal will not require surface water withdrawals or diversions. The river channel will be partially blocked off and water will continue to flow in the existing channel during construction. Flows to Avista's hydro-electric facility must be maintained.

(5) Does the proposal lie within a 100-year flood plain? If so, note the location on the site plan.

Yes, the existing and proposed replacement bridges lie within the 100-year floodplain. FEMA FIRM's identify the 100-year flood elevation at 1875 feet above sea level (asl). The top of the existing bridge deck is approximately 1877 asl. The top of the proposed bridge deck varies from 1878 to 1879 asl. The proposed bridge has two piers in the floodplain, one less span than the existing bridge, which will improve hydraulic capacity and flow conditions under the bridge. It is important to note that the South Channel is highly controlled by the Riverfront Park control structure and that high flows are diverted to the northern river channels. See Attachment A-Construction Figures, Howard Street South Channel Bridge, Figure 1, for flood elevations in relation to the proposed work. Furthermore, a hydraulic analysis was conducted and a report prepared that shows no net rise in base flood elevation.

(6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No.

b. Ground:

(1) Will groundwater be withdrawn, or will water be discharged to groundwater? Give general description, purpose, and approximate quantities, if known.

No.

(2) Describe waste material that will be discharged into the ground from septic tanks or other sanitary waste treatment facility. Describe the general size of the system, the number of houses to be served (if applicable) or the number of persons the system(s) are expected to serve.

None.

(3) Describe any systems, other than those designed for the disposal of sanitary waste, installed for the purpose of discharging fluids below the ground surface (including systems such as those for the disposal of storm water or drainage from floor drains). Describe the type of system, the amount of material to be disposed of through the system and the types of materials likely to be disposed of (including materials which may enter the system inadvertently through spills or as a result of fire-fighting activities).

None.

(4) Will any chemicals (especially organic solvents or petroleum fuels) be stored in aboveground or underground storage tanks? If so, what types and quantities of materials will be stored?

None.

(5) What protective measures will be taken to insure that leaks or spills of any chemicals stored or used on site will not be allowed to percolate to groundwater (this includes measures to keep chemicals out of disposal systems described in 3b(2) and 3b(3)?

Not applicable.

c. Water Runoff (including storm water):

(1) Describe the source of runoff (including storm water) and method of collection and disposal if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Stormwater on the South Channel Bridge currently flows directly into the river or evaporates. The new South Channel Bridge will temporarily collect bridge stormwater and convey it to existing stormwater collection facilities until the permanent stormwater system is constructed. The permanent stormwater system will convey water to infiltration areas that may supply water to a new natural habitat area. Stormwater management at the existing Theme Stream Bride will remain unchanged.

(2) Will any chemicals be stored, handled or used on the site in a location where a spill or leak will drain to surface or groundwater or to a storm water disposal system discharging to surface or groundwater?

No. All potential chemical storage will be in upland areas. A SWPPP will be prepared that will identify stormdrains and surface waters. A spill plan will be in place and spill kits will be on site.

(3) Could waste materials enter ground or surface waters? If so, generally describe.

No.

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any (if the proposed action lies within the Aquifer Sensitive Area be especially clear on explanations relating to facilities concerning Sections 3b(4), 3b(5), and 3c(2) of this checklist):

Best management practices (BMPs) will be conducted to control precipitation runoff and run-on. The new stormwater infiltration area for the South Channel Bridge will improve stormwater collection and treatment compared to existing conditions.

Also, proposed construction methods will minimize the amount of turbidity created during construction to the extent possible, and these impacts are expected to be minor, of short duration, and not result in any substantial

negative impacts to water quality.

4. PLANTS

- a. Check or circle type of vegetation found on the site:

☒ deciduous tree: alder, maple, aspen, (other).
☐ evergreen tree: fir, cedar, (pine), other.
☒ shrubs.
☒ grass.
☐ pasture
☐ crop or grain.
☐ wet soil plants, cattail, buttercup, bulrush, skunk cabbage, other
(wet soil plants may exist near the far east end of the site).
☐ water plants: water lily, eelgrass, milfoil, other.
☐ other types of vegetation.

- b. What kind and amount of vegetation will be removed or altered?

South Channel Bridge – a few shoreline trees and bushes may be removed in the northwest corner of the South Channel Bridge to provide construction access to the river channel. Vegetation doesn't presently exist at the southeast and southwest corners of the bridge except for moveable planters. The locust lane of trees along the southwest bank of the forebay will not be disturbed. The wing-wall at the northeast corner of the bridge will be removed and replaced with native vegetation.

Theme Stream Crossing – some trees will need to be removed at the Theme Stream crossing and along the widened roadway, most of the trees removed will be at the Sister Cities' staging/laydown area where removal is necessary to increase the turning radius for delivery of bridge girders to the South Channel Bridge construction site (See Attachment A, Construction Figures, Theme Stream Bridge, Figure 1 for tree locations).

- c. List threatened or endangered species known to be on or near the site.

The water howellia (*Howellia aquatilis*) is the only federally listed threatened plant species in Spokane County within the project area reported by the USFWS's website (see Attachment B for IPAC Project Report). The project site does not have suitable habitat for the water howellia.

There are no state-listed priority plant species listed by Washington Department of Fish and Wildlife (WDFW) for this property.

- d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

The new stormwater infiltration area at the South Channel Bridge will provide additional vegetative habitat in the Park. Any trees or shrubs that might be removed for the construction access that crosses over the existing Theme Stream Bridge or from South Channel Bridge demolition and construction will be accounted for and replaced if required.

ANIMALS

a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

birds: hawk, heron, bald eagle, songbirds, and water fowl (ducks, geese)

mammals: white-tailed deer, bear, elk, beaver, and marmots, voles, mice

fish: bass, salmon, trout, herring, shellfish, other:

b. List any threatened or endangered species known to be on or near the site.

Federally listed species reported on the USFWS's IPAC report for the project area is Bull Trout (*Salvelinus confluentus*), yellow billed cuckoo (*Coccyzus americanus*), gray wolf (*Canis lupus*), and Canada lynx (*Lynx Canadensis*). Bull Trout habitat has been designated by the United States Fish and Wildlife Service (USFWS) to be limited to only those river areas upriver of the City of Spokane's Upriver Dam.

Due to the urbanized setting, there is no suitable habitat for those species. Habitats in the surrounding bridge area are of poor quality because they are highly urbanized and developed with impervious surfaces. The natural riverbanks have been mostly replaced with concrete walls.

There are no state-listed species listed in the project area based on the WDFW's Priority Habitats and Species List. However, under the City of Spokane's Habitat database, it includes the following birds for protection: Bald Eagle (*Haliaeetus leucocephalus*), Osprey (*Pandion haliaetus*) and Red-Tailed Hawks (*Buteo jamaicensis*). There is a known osprey nest in Kendall Yards (approximately 0.25 miles from the intersection of Post Street with the access roadway and approximately 0.30 miles from the South Channel Bridge).

c. Is the site part of a migration route? If so, explain.

Yes. Bald eagles and waterfowl migrate through the Spokane River corridor (see IPAC Report in Attachment B for migratory bird listing). Trout and other fish species may migrate within river segments on a seasonal or yearly basis.

d. Proposed measures to preserve or enhance wildlife, if any:

Proposed measures to preserve or enhance aquatic wildlife include:

- Bridge demolition and construction will use best management practices to prevent erosion and degradation of water quality.
- Clean and contained rock will be used for the temporary construction rock pads.
- Debris and bridge materials will be collected and removed without contact with the river to the extent possible.
- Concrete piers will be poured within casings to separate contact to fresh river water.

Bridge-caused shading will be reduced because the replacement bridge does not use the entire footprint area of the existing bridge, and will have 11,200 sq. ft. of shadowed surface, a reduction of 1,300 sq. ft. This may decrease shade and cover for fish and aquatic species but may also provide a benefit to other species. In addition, using the park generated stormwater from the permanent stormwater collection and disposal system will support wildlife habitat within the park.

5. ENERGY AND NATURAL RESOURCES

- a. What kinds of energy (electric, natural gas, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Not applicable.

- b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

- c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

Not applicable.

6. ENVIRONMENTAL HEALTH

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste that could occur as a result of this proposal? If so, describe.

Hazardous materials may be found during excavation of the riverbanks and river bed, Theme Stream channel and access road improvements because the park was previously a railroad yard and an industrial complex where spills may have occurred. Also, debris from fires may have been deposited throughout park lands.

- (1) Describe special emergency services that might be required.

None. If hazardous materials or soils are encountered, they will be properly managed and controlled per local and state regulations.

- (2) Proposed measures to reduce or control environmental health hazards, if any:

Concrete will be tested for asbestos and properly disposed of. A SWPPP and Spill plan will be prepared. Spill kits will be on site. Workers will be observant for hazardous materials while performing excavation operations. If unusual soil conditions are noticed (e.g., discoloration or oily materials), excavation of the subject area will stop until soils are tested to either validate soil acceptability or identify soil chemical concentrations that require soil removal, disposal and replacement. Appropriate agencies will be contacted as necessary.

b. Noise:

(1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

No existing noise will affect this work.

(2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Noise will be generated by demolition and construction activities. Construction activities will normally occur between 7 AM and 5 PM, Monday through Friday.

(3) Proposed measure to reduce or control noise impacts, if any:

Conduct work during hours mentioned above. Equipment will not be left idling for long periods.

7. LAND AND SHORELINE USE

a. What is the current use of the site and adjacent properties?

The site is located in a public recreational park (Riverfront Park) but also in Avista's forebay that directs river water to their Monroe Street powerhouse that is regulated by FERC.

b. Has the site been used for agriculture? If so, describe.

No.

c. Describe any structures on the site.

Existing bridge and retaining walls for the South Channel forebay. Nearby is the Fountain Café restaurant, the Rotary Fountain and the Loeff Carrousel. Also, the existing Theme Stream Bridge, Theme Stream water feature, Upper Falls Gate House, and a children's playground.

d. Will any structures be demolished? If so, which?

The South Channel Bridge will be demolished and replaced with a new bridge. The existing Theme Stream Bridge will be temporarily modified to include the temporary crossing.

- e. What is the current zoning classification of the site?

Downtown General (DTG-150) is the zone.

- f. What is the current comprehensive plan designation of the site?

Open Space.

- g. If applicable, what is the current shoreline master program designation of the site?

Intensive Urban Environment

- h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

Yes, rivers are by their nature, classified as an environmentally sensitive area. However, this portion of the river is not considered high quality habitat because of its urban setting and altered and channelized walls.

- i. Approximately how many people would reside or work in the completed project?

Not applicable.

- j. Approximately how many people would the completed project displace?

None.

- k. Proposed measure to avoid or reduce displacement impacts, if any:

Not applicable.

- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

Not applicable.

8. HOUSING

- a. Approximately how many units would be provided, if any? Indicate whether high-, middle-, or low- income housing.

Not applicable.

- b. Approximately how many units, if any, would be eliminated? Indicate whether high-, middle-, or low-income housing.

Not applicable.

- c. Proposed measures to reduce or control housing impacts, if any:

Not applicable.

9. AESTHETICS

- a. What is the tallest height of any proposed structure(s), not including antennas? What is the principal exterior building material(s) proposed?

The tallest height of the replacement South Channel Bridge will be approximately 5-6 feet from ground surface to top of the bridge railing. Light poles on the bridge would be higher if placed on or near the bridge.

- b. What views in the immediate vicinity would be altered or obstructed?

No views would be altered from the bridge looking outwards. When viewing from the pedestrian step-down platforms that are on the upriver and downriver sides of the bridge, the views will be more at water level as compared to existing conditions. Views from the shore looking towards the bridge will remain similar except for the modified bridge design itself.

- c. Proposed measures to reduce or control aesthetic impacts, if any:

The bridge experience is enhanced by the ability to get closer to the water when viewing the upstream and downstream vistas from the bridge. The bridge appearance will seem light and very similar to the existing bridge (low to the water), but will include the intriguing step down platforms and architectural railings.

10. LIGHT AND GLARE

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

The existing light poles may be replaced and will operate during the evenings.

- b. Could light or glare from the finished project be a safety hazard or interfere with views?

No.

- c. What existing off-site sources of light or glare may affect your proposal?

None.

- d. Proposed measures to reduce or control light and glare impacts, if any:

Lights will be downward facing.

11. RECREATION

- a. What designated and informal recreational opportunities are in the immediate vicinity?

A variety of recreational opportunities are available including riding the nearby carousel and the gondola, recreational fishing, bird watching, playing in the fountain, dining out, running/walking, bicycling, rollerblading, skate boarding, train rides, playing at a nearby children's playground and/or viewing the Theme Stream. There is ice-skating and an Imax theatre in the Pavilion nearby. The park is also used for seasonal festivals and events.

- b. Would the proposed project displace any existing recreational uses? If so, describe.

No, detours would be in-place to direct the public around the temporary construction activities and alternate access to recreational amenities are available.

- c. Proposed measures to reduce or control impacts on recreation, including recreational opportunities to be provided by the project or applicant, if any:

The City will coordinate regarding scheduling events and will consider potential construction impacts on recreational opportunities.

12. HISTORICAL AND CULTURAL PRESERVATION

- a. Are there any places or objects listed on or proposed for national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

The existing bridge is not presently listed on any registers. It will be evaluated for eligibility to national, state, and/or local preservation registers prior to replacement. The nearby Loeff carousel is National Register listed but not the building itself. The entire bridge site lies in the Spokane River Historic District that spans from Division Street to Maple Street. The City's historic preservation officer is coordinating with DAHP on the project.

- b. Generally describe any landmarks or evidence of historic archaeological, scientific, or cultural importance known to be on or next to the site.

A website search of approximately 1/3 mile radius of the site was conducted on Department of Archeology and Historic Preservation's (DAHP's) WISAARD database by CH2M's archeologist. Records show a prehistoric site that is 200 feet outside of the Area of Potential Effects (APE). Consultation is on-going with the Spokane Tribe of Indians. The Spokane Tribe will be conducting an archaeological review, survey, evaluation and report for this project.

- c. Proposed measures to reduce or control impacts, if any:

An inadvertent discovery plan, as requested by the Spokane Tribe of Indians, will be prepared (See Attachment B for copy of project review letter from Randy Abrahamson, Spokane Tribe of Indians).

14. TRANSPORTATION

- a. Identify public streets and highways serving the site and describe proposed access to the existing street system. Show on site plans, if any.

West Spokane Falls Boulevard provides access to the site from the south and Post Street provides access to the site from the west. See Attachment A, Construction Figures, Theme Stream Bridge, Figure 1.

- b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

Yes, Riverfront Park is served by public transit. But there are no stops/stations that would be impacted by this project.

- c. How many parking spaces would the completed project have? How many would the project eliminate?

Not applicable for development of this specific park area.

- d. Will the proposal require any new roads or streets, or improvements to existing roads or streets not including driveways? If so, generally describe (indicate whether public or private).

The access from Post Street to the Sister Cities' site in the interior of Riverfront Park on Havermale Island will be widened to enable construction vehicles and equipment access to the South Channel Bridge project.

- e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No.

- f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak would occur.

Not applicable.

- g. Proposed measures to reduce or control transportation impacts, if any:

Temporary detours will be arranged to direct the public around work areas. The improvements of the park access off of Post Street will make access to the park easier and safer for vendors, and maintenance and emergency vehicles.

15. PUBLIC SERVICES

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

No.

- b. Proposed measures to reduce or control direct impacts on public services, if any:

Not applicable.

UTILITIES

- a. Underline utilities currently available at the site: (electricity), (natural gas), (water), (refuse service), (telephone), (sanitary sewer), septic system, other.
- b. Describe the utilities that are proposed for the project, the utility providing the service and the general construction activities on the site

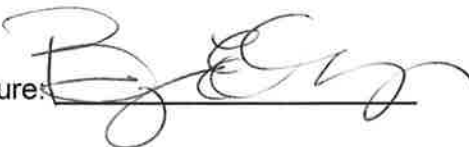
or in the immediate vicinity which might be needed.

The existing South Channel Bridge carries a 12-inch-diameter water line. That water line will be re-routed by the City temporarily during construction, and a new 18-inch diameter water line will be carried by the proposed bridge. Electricity will be provided for lighting the bridge. There will be no utilities installed related to the Theme Stream crossing construction.

C. SIGNATURE

I, the undersigned, swear under penalty of perjury that the above responses are made truthfully and to the best of my knowledge. I also understand that, should there be any willful misrepresentation or willful lack of full disclosure on my part, the *agency* must withdraw any determination of Nonsignificance that it might issue in reliance upon this checklist.

Date: 1/20/16

Signature: 

Please Print or Type:

Proponent: City of Spokane Parks and Recreation Division Address: 808 West Spokane Falls Boulevard, City Hall, 5th Floor, Spokane, WA 99201

Phone: (509) 625-6276 (Berry Ellison)

Person completing form: Marlena Guhlke, R.S.
Address: CH2M, 999 W. Riverside Ave., Suite 500

Phone: (509) 464-7245

FOR STAFF USE ONLY

Staff member(s) reviewing checklist: _____

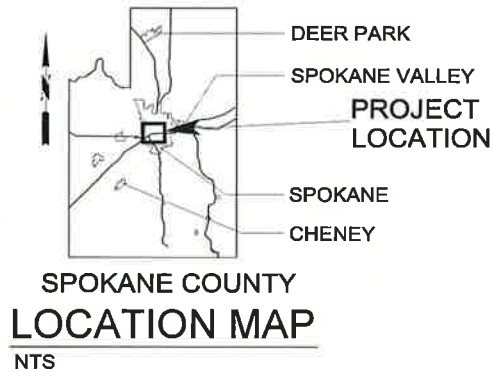
Based on this staff review of the environmental checklist and other pertinent information, the staff concludes that:

☐ A. There are no probable significant adverse impacts and recommends a Determination of Nonsignificance.

☐ B. Probable significant adverse environmental impacts do exist for the current proposal and recommends a Mitigated Determination of Nonsignificance with conditions.

☐ C. There are probable significant adverse environmental impacts and recommends a Determination of Significance.

Figures



Reference Number:
(Howard Street South Channel Bridge
Replacement Project)
Applicant: City of Spokane
Adjacent Property Owners:
1. City of Spokane, Riverfront Park
2. Avista, LLC

Project Location: North of N. Howard Street
and W Spokane Falls Blvd Intersection
Spokane, WA 99201
Section 18, Township 25 N, Range 43 EWM
Lat/Long: 47.661058/117.421061W
Datum: NAVD 88
Sheet 1 of 6 5/28/2015

Proposed Project: Howard Street South
Channel Bridge Replacement Project
In: Spokane River
At: City of Spokane
County: Spokane County
State: WA

Figure 1
Location and Vicinity Map
Howard Street South
Channel Bridge
Replacement



Reference Number: NWS-2015-466
 (Howard Street South Channel
 Bridge Replacement Project)
 Applicant: City of Spokane
 Adjacent Property Owners:
 1. City of Spokane, Riverfront Park
 2. Avista, LLC

Project Location: North of N. Howard Street
 and W Spokane Falls Blvd Intersection
 Spokane, WA 99201
 Section 18, Township 25 N, Range 43 EWM
 Lat/Long: 47.661058/117.421061W
 Datum: NAVD 88
 Sheet 2 of 5 5/28/2015

Proposed Project: Geotechnical Investigations
 Howard St. South Channel Bridge
 In: Spokane River
 At: City of Spokane
 County: Spokane County
 State: WA

Figure 2
 Project Location
 Howard Street
 South Channel
 Bridge Replacement

Attachment A
Construction Figures
(Howard Street South Channel Bridge, Figures 1-2 and
Theme Stream Crossing, Figure 1)

**Howards Street
South Channel Bridge
Figures 1 and 2**

[illegible][illegible]

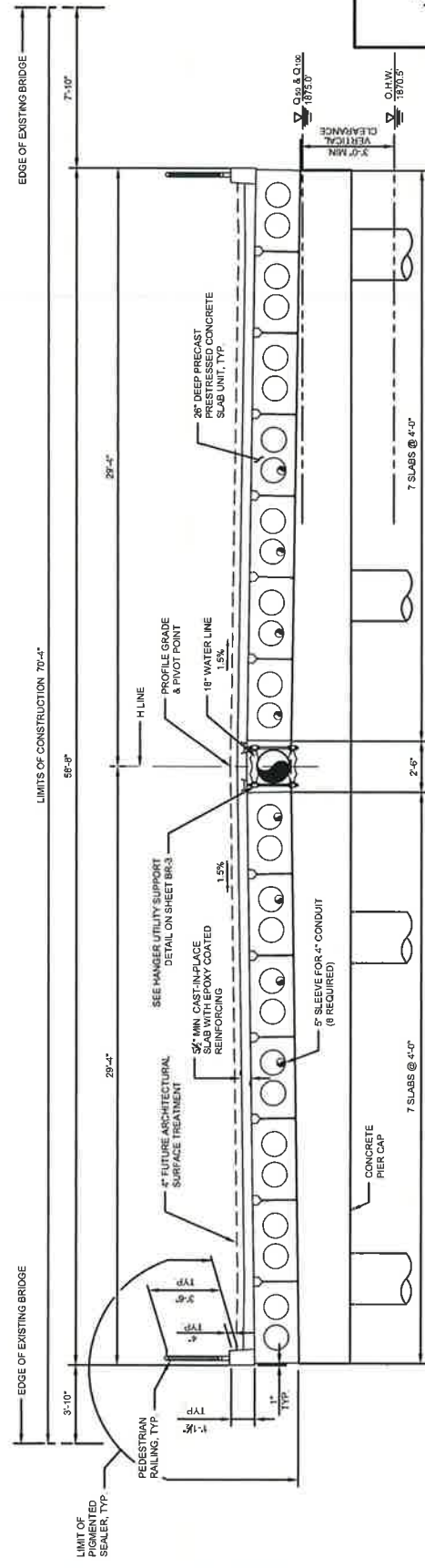
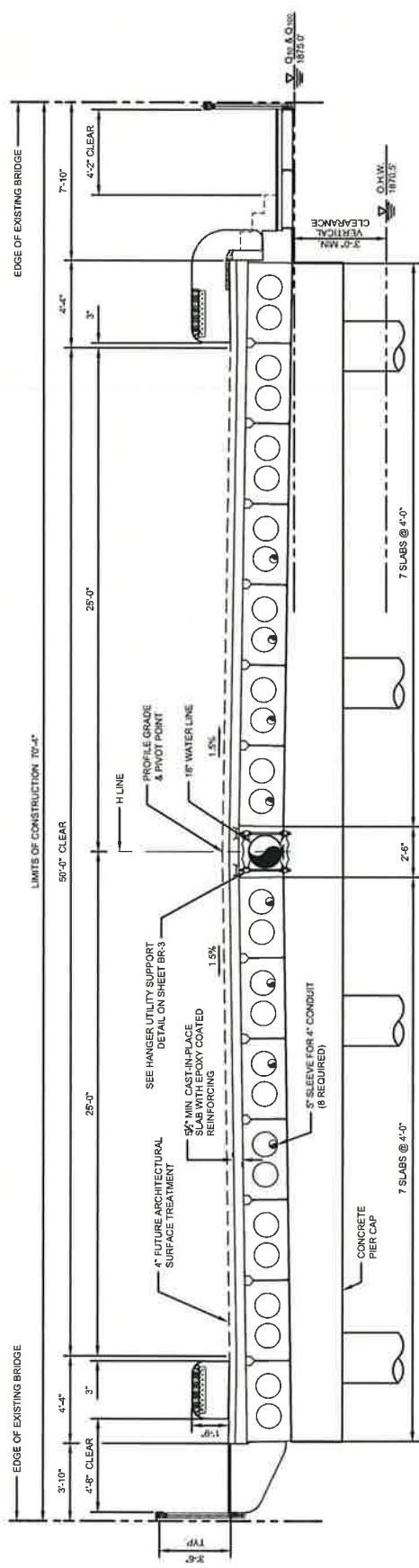


Figure 2

Figure 2

TYPICAL SECTION AT BALUSTRADE

CONCRETE PIER CAP

7 SLABS @ 4'-0"

2'-6"

7 SLABS @ 4'-0"

Q.H.W. 1870.5'

CL. 1870.5'

Figure 2

TYPICAL SECTION AT BALUSTRADE

ch2m

REVISIONS

DATE

CITY DATUM

SCALE

CONCRETE WALL WITH BALUSTRADE

SAFETY LIGHTS ON CHAIN

CHAIN LINK FENCING

CONCRETE PIER CAP

7 SLABS @ 4'-0"

2'-6"

7 SLABS @ 4'-0"

Q.H.W. 1870.5'

CL. 1870.5'

Figure 2

TYPICAL SECTION AT BALUSTRADE

ch2m

REVISIONS

DATE

CITY DATUM

SCALE

CONCRETE WALL WITH BALUSTRADE

SAFETY LIGHTS ON CHAIN

CHAIN LINK FENCING

CONCRETE PIER CAP

7 SLABS @ 4'-0"

2'-6"

7 SLABS @ 4'-0"

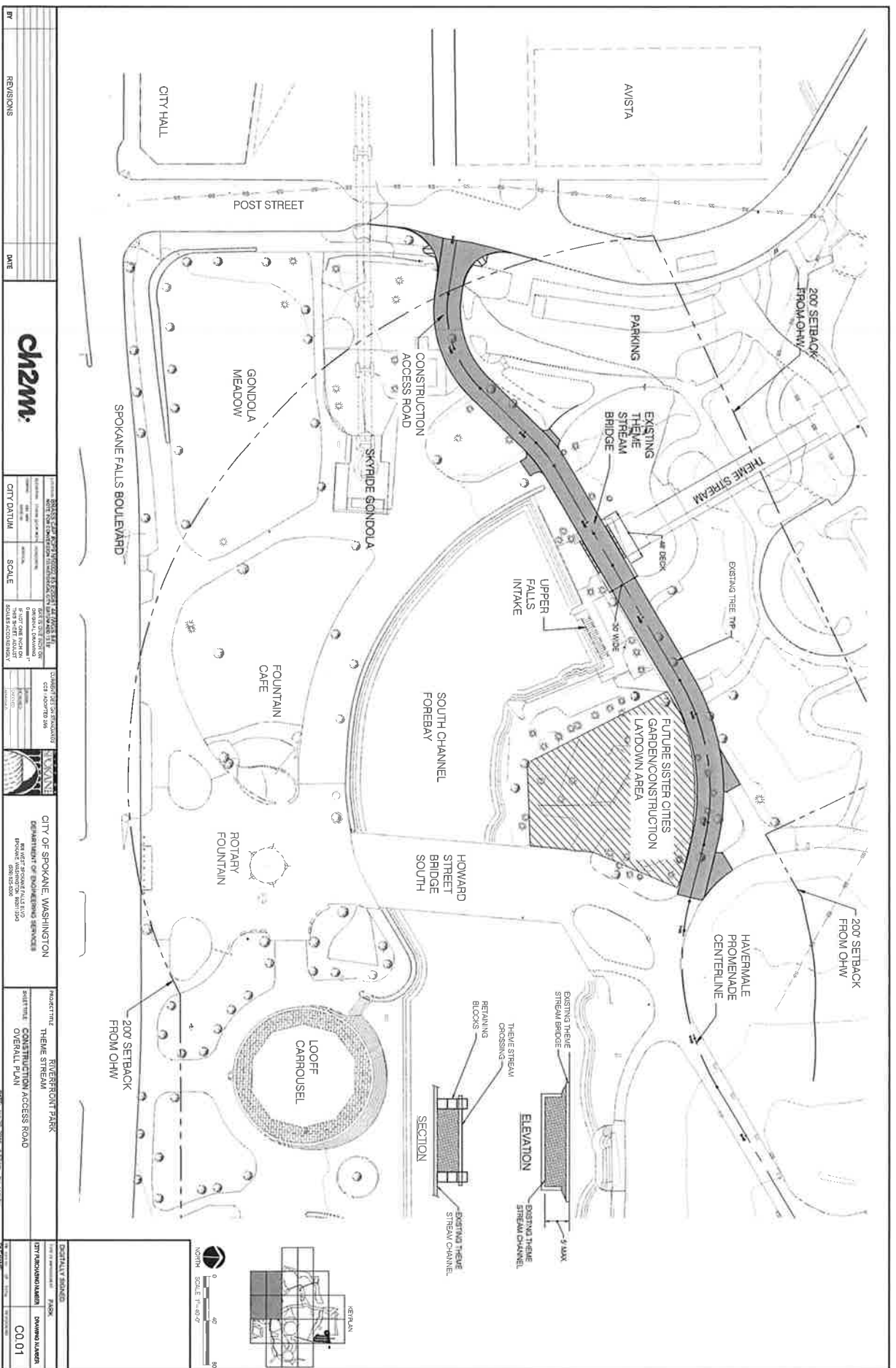
Q.H.W. 1870.5'

CL. 1870.5'

Theme Stream Bridge

Figure 1





Attachment B
IPaC Trust Resource Report and
Tribal Correspondence

Riverfront Park Development

IPaC Trust Resource Report

Generated January 19, 2016 11:34 AM MST, IPaC v2.3.2

This report is for informational purposes only and should not be used for planning or analyzing project level impacts. For project reviews that require U.S. Fish & Wildlife Service review or concurrence, please return to the IPaC website and request an official species list from the Regulatory Documents page.



US Fish & Wildlife Service

IPaC Trust Resource Report



NAME

Riverfront Park Development

LOCATION

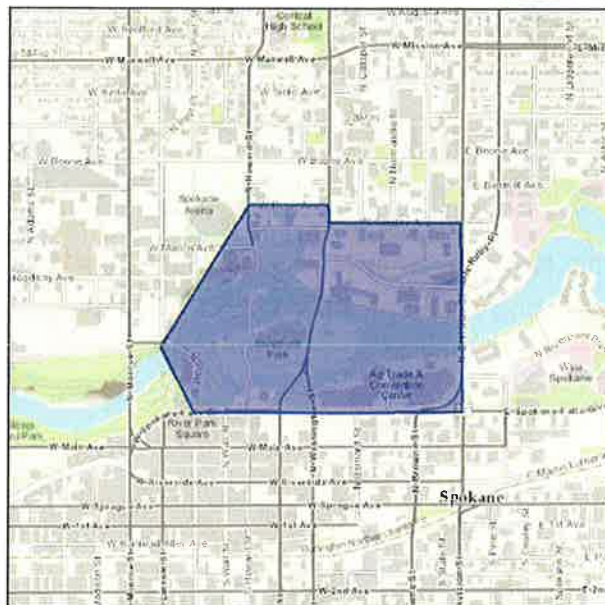
Spokane County, Washington

DESCRIPTION

Replace or repair Riverfront Park Bridges and replace or improve ice skating rink, Loof Carrousel, and facilities on Havermale Island including the Pavilion, Canada Island and North Bank.

IPAC LINK

<https://ecos.fws.gov/ipac/project/BEXG6-TUBZ5-DIZIZ-TTNGF-JEUY2A>



U.S. Fish & Wildlife Contact Information

Trust resources in this location are managed by:

Washington Fish And Wildlife Office

510 Desmond Drive Se, Suite 102

Lacey, WA 98503-1263

(360) 753-9440

Endangered Species

Proposed, candidate, threatened, and endangered species are managed by the [Endangered Species Program](#) of the U.S. Fish & Wildlife Service.

This USFWS trust resource report is for informational purposes only and should not be used for planning or analyzing project level impacts.

For project evaluations that require FWS concurrence/review, please return to the IPaC website and request an official species list from the Regulatory Documents section.

[Section 7](#) of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency.

A letter from the local office and a species list which fulfills this requirement can only be obtained by requesting an official species list from the Regulatory Documents section in IPaC.

The list of species below are those that may occur or could potentially be affected by activities in this location:

Birds

Yellow-billed Cuckoo *Coccyzus americanus* Threatened
 CRITICAL HABITAT
 There is **proposed** critical habitat designated for this species.
https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B06R

Fishes

Bull Trout *Salvelinus confluentus* Threatened
 CRITICAL HABITAT
 There is **final** critical habitat designated for this species.
https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=E065

Flowering Plants

Water Howellia *Howellia aquatilis* Threatened
 CRITICAL HABITAT
No critical habitat has been designated for this species.
https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=Q2RM

Mammals

Canada Lynx *Lynx canadensis*

Threatened

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?sPCODE=A073

Gray Wolf *Canis lupus*

Endangered

CRITICAL HABITAT

No critical habitat has been designated for this species.

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?sPCODE=A00D

Critical Habitats

There are no critical habitats in this location

Migratory Birds

Birds are protected by the [Migratory Bird Treaty Act](#) and the [Bald and Golden Eagle Protection Act](#).

Any activity which results in the take of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service (1). There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

Any person or organization who plans or conducts activities that may result in the take of migratory birds is responsible for complying with the appropriate regulations and implementing appropriate conservation measures.

Additional information can be found using the following links:

- Birds of Conservation Concern
<http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Conservation measures for birds
<http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Year-round bird occurrence data
<http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/akn-histogram-tools.php>

The following species of migratory birds could potentially be affected by activities in this location:

Bald Eagle <i>Haliaeetus leucocephalus</i>	Bird of conservation concern
Year-round https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B008	
Brewer's Sparrow <i>Spizella breweri</i>	Bird of conservation concern
Season: Breeding https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HA	
Calliope Hummingbird <i>Stellula calliope</i>	Bird of conservation concern
Season: Breeding https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0K3	
Ferruginous Hawk <i>Buteo regalis</i>	Bird of conservation concern
Season: Breeding https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B06X	
Flammulated Owl <i>Otus flammeolus</i>	Bird of conservation concern
Season: Breeding https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0DK	
Fox Sparrow <i>Passerella iliaca</i>	Bird of conservation concern
Season: Breeding	

Lewis's Woodpecker *Melanerpes lewis*

Season: Breeding

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HQ

Bird of conservation concern

Peregrine Falcon *Falco peregrinus*

Season: Breeding

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0FU

Bird of conservation concern

Rufous Hummingbird *selasphorus rufus*

Season: Breeding

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0E1

Bird of conservation concern

Short-eared Owl *Asio flammeus*

Year-round

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HD

Bird of conservation concern

Swainson's Hawk *Buteo swainsoni*

Season: Breeding

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B070

Bird of conservation concern

Western Grebe *aechmophorus occidentalis*

Season: Breeding

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0EA

Bird of conservation concern

Willow Flycatcher *Empidonax traillii*

Season: Breeding

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0F6

Bird of conservation concern

Refuges

Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuges in this location

Wetlands in the National Wetlands Inventory

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

DATA LIMITATIONS

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

DATA EXCLUSIONS

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

DATA PRECAUTIONS

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

This location overlaps all or part of the following wetlands:

Riverine

R3UBH

554.0 acres

A full description for each wetland code can be found at the National Wetlands Inventory website: <http://107.20.228.18/decoders/wetlands.aspx>

Tribal Correspondence



December 22, 2015

Marlena Guhlke
Senior Environmental Scientist

RE: Riverfront Park Redevelopment Project

Ms. Guhlke:

Thank you for inviting the Spokane Tribe of Indians to be a consulting party is greatly appreciated.

We have reviewed the scope of work forwarded to our office for the project mention above; we are concerned that the project area potentially contains cultural resources which would be impacted by the proposed ground disturbing action.

Expressing the Spokane tribe concern in this sensitive area, this area has lot of history and TCP affected geographic area that be impacted, this project may require a COR permit, that might trigger section 106.

Recommendation: Cultural Survey Sub-surface testing and monitoring. Also an Inadvertent Discovery plan implemented into the scope or work.

There are some unique features that would like to discuss with you such as interpretation and signage, tribal history of this sacred place, renaming Canada Island.

However if any artifacts or human remains are found upon excavation activity this office is to be notified and the immediate area cease.

Should additional information become available our assessment may be revised.

Again thank you for this opportunity to comment and consider this a positive action that will assist us in protecting our shared heritage.

If questions arise, please contact me at (509) 258 – 4315.

Sincerely,

Randy Abrahamson
Tribal Historic Preservation Officer

