

1                   **HANNIBAL BOARD OF PUBLIC WORKS**  
2                   **3 INDUSTRIAL LOOP DRIVE**  
3                   **HANNIBAL, MISSOURI 63401**

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6                   **PUBLIC HEARING**  
7                   **ENVIRONMENTAL IMPACT OF PUBLIC WATER**  
8                   **SUPPLY IMPROVEMENT PROJECT**

9  
10                  **TRANSCRIPT OF PUBLIC HEARING**  
11                  **MARCH 27, 2015**

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14                  **REPORTED BY RANDALL W. WELLS**  
15                  **CERTIFIED COURT REPORTER**  
16                  **C.C.R. #0271**

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***Horner & Shifrin, Inc. Engineers***

FRIDAY, MARCH 27, 2015

MR. STEVENSON: Now we'll go immediately then to a public hearing, which will be transcribed, and we will discuss the environmental impacts of all of these projects.

And want to turn it back over to Lisa at this time, Lisa Fennewald, with Horner & Shifrin Engineering in St. Louis.

MS. FENNEWALD: All right. So I will open the public meeting.

We are going to talk about the environmental impacts on these -- of these projects.

First, though, with the Hannibal, Missouri public water supply improvement projects I want to just really quick go through all the projects again. We're repeating ourselves a little bit, but this is the process that we need to follow here.

So the -- there are four projects that are part of this -- part of the project work. They were the Priority 1 and Priority 2 in the facility plan.

Number 1 is the southside elevated water tank.

Second one is the miscellaneous distribution system improvements.

Third project is the water treatment plant improvements.

And the fourth project is the raw water line replacement and residual outfall lines.

1           The southside water tank project consists of  
2 replacement of a two hundred gallon -- of a fifty thousand  
3 gallon, sorry, tank with a two hundred thousand gallon elevated  
4 water tower.

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5           We also need six hundred and forty-five feet of  
6 eight-inch water main to connect that main, that tower to the  
7 water system.

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8           And then we also need a new tower access road to be  
9 able to access the site to construct the water tank.

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10           The second project is the miscellaneous distribution  
11 system improvements. This includes booster station upgrades and  
12 new mains and upgraded mains throughout the system.

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13           There are three booster station projects.

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14           One is the Pleasant Street booster station. It  
15 includes fence installation for security reasons, some building  
16 upgrades, HVAC and electrical improvements.

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17           The southside booster station includes, once again,  
18 fence installation, some siding improvements on the building, and  
19 a backup generator to supply power to power the pump station when  
20 the power goes out.

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21           The third pump station is the Paris Gravel pump  
22 station. Once again, we're putting a fence in there for  
23 security, improving some existing building improvements, adding  
24 an additional booster station to supply peak flow to that  
25 pressure zone and to the hospital, a backup generator to supply

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1 power, backup power when the power goes out, and an additional  
2 twelve hundred feet of a new twelve-inch main to supply more  
3 water to the booster station.

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4           The fourth project in this miscellaneous distribution  
5 system improvements is sixty-six hundred feet of a new  
6 twelve-inch main along West Ely from Head Lane to Fiddlesticks  
7 Restaurant. This is to add a second feed into that pressure  
8 zone. If the original twelve-inch main that's -- that's there  
9 right now would have a break, this would be a backup supply to  
10 that zone.

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11           The next project would be the water treatment plant  
12 improvements. There's multiple things going on there.

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13           We've got raw water intake improvements.

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14           New head structure.

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15           We're adding pre-sedimentation and primary basin  
16 bypass lines.

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17           There will be new carbon feed equipment and carbon  
18 mix basin.

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19           Chemical feed improvements to the plant.

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20           Plant control modifications and new SCADA system.

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21           We also will be implementing an ultraviolet light  
22 disinfection system, chloramines switchover, electrical  
23 improvements, raw water intake emergency backup power, a new  
24 building for the UV and the carbon, and multiple miscellaneous  
25 plant improvements.

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1           The last project is the raw waterline replacement and  
2 residual discharge line. The raw waterline, which is this yellow  
3 line represented here, will replace -- will replace two existing  
4 lines with two 4,300 feet long parallel twenty inch ductile iron  
5 pipes that will take water from the river to the treatment plant  
6 for treatment.

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7           The second line, which will run parallel to this  
8 yellow line, the raw water line, is the residual outfall line  
9 that is 4,100 feet of new twenty-four inch PVC pipe from the  
10 water treatment plant to discharge the plant waste to the river.

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11           Each one of the locations of this project has to go  
12 -- undergo an environmental review. There's multiple reviews  
13 that take place for each -- each location.

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14           The first review is a water quality review. This was  
15 sent to the Army Corps of Engineers, Rock Island District. They  
16 will evaluate to make sure that we are meeting requirements as  
17 far as any stream crossings and rivers in the area.

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18           The second review is the historical, archaeological  
19 site review. This was sent to the Missouri Department of Natural  
20 Resources, their State Historic Preservation Office, and the  
21 Division of Parks to determine if there's any archeological  
22 artifacts, any artifacts at the site when we're doing  
23 construction.

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24           The next agency was sent to was the -- to the U.S.  
25 Fish and Wildlife and Missouri Conservation Department to do a

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1 habitat and endangered species review to make sure that we're not  
2 going to be inhibiting on any of these species that might be  
3 endangered species or threatened species in the area.

4 Next was the geological and land survey review by the  
5 MDNR Division of Geology and Land Survey. They were looking for  
6 any areas there may be sink holes or if there's any disturbance  
7 to the quality of the water that we're doing these constructions  
8 near.

9 And lastly, notification of State/Federal Project  
10 Review. This basically allows any state or federal agency to  
11 comment on projects that they're -- the city's receiving grant  
12 money or any kind of a federal -- federal loan for.

13 So we sent all of these four projects to them for  
14 review. The first one was the southside elevated tower. This is  
15 the area, specific area we outlined that we submitted that the  
16 project is going to take place in. So that's the first project.

17 The mitigation that came out of this is that any tree  
18 clearing in forested areas must be performed between November 1st  
19 and March 31st to minimize the impact of the Indiana Bat and the  
20 Northern Long-Eared Bat, which is in the whole -- this whole area  
21 because they are a threatened or endangered species.

22 The second project, the miscellaneous distribution  
23 system upgrades, we sent them the four areas that are part of  
24 this project, which include the Pleasant Street booster station  
25 site outlined in yellow here; the Paris Gravel booster station.

1           And this -- the areas on some of these are more than  
2 the project because we -- originally we did not know exactly  
3 where the project area was going to be. So we submitted some  
4 additional areas to make sure we were covered.

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5           So in this case for the Paris Gravel we're really  
6 just going along this Red Devil Road and then to the booster  
7 station area.

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8           The next was the West Ely/Route 412 main. And we've  
9 got that area highlighted where the construction would take  
10 place.

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11           And the fourth project here is the southside booster  
12 station, which is in this corner right here.

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13           That, the mitigation area for that, once again we  
14 have the tree clearing in the forested areas between November 1st  
15 and the 31st for the bats.

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16           We also in addition have any open cut excavation  
17 across any of the creek tributaries. We need to comply with the  
18 Corps of Engineers' Nationwide Permit 12, which is a requirement  
19 for any utilities crossing streams.

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20           The third project is the water treatment plant  
21 improvements. This is basically just an area right around the  
22 treatment plant. And the only litigation we had there was, once  
23 again, the tree clearing in the forested areas to protect the  
24 bats, as that is a common thing of all -- every -- of the  
25 projects.

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1           So the last project is the raw water line replacement  
2 and residual outfall. Basically we turned in the alignment for  
3 each of these routes for review. And we've got the bats, again,  
4 is the first -- the tree clearing in the forested areas.

5           The second item here was the city has to obtain an  
6 easement from the Missouri State Park Division. They -- since  
7 the city has received federal money in the past for work in the  
8 park, this is required.

9           Any work we have to follow the Stream Management  
10 Recommendations to protect any streams within -- within the park  
11 area for soil erosion and water pollution.

12           This -- these routes do go across some unnamed  
13 streams, so we also have to comply the Corps of Engineers'  
14 Nationwide Permit Number 12, which is the requirements for  
15 utilities crossing streams.

16           And lastly, we need to comply with the Corps of  
17 Engineers' Nationwide Permit 7 for the residual outfall line.  
18 That's requirements for any pipe outfalls into the river.

19           And that concludes all of the environmental  
20 requirements for this project.

21           If there's any questions we'll take those now.

22           MR. STEVENSON: Any questions?

23           Well, hearing none we'll close the public hearing.

24           Thank you.

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I, Randall W. Wells, Certified Shorthand Reporter,  
Certified Court Reporter, do hereby certify that the proceedings  
had in the matter set forth in the caption page hereon were  
reported in shorthand by me, afterwards transcribed, and the  
foregoing is a true and complete transcript of said shorthand  
notes.

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Date: \_\_\_\_\_