Talking Points for June 4th Council Budget Hearing and June 6th Historic Landmark Commission (HLC) Hearing. K. Fisher June 1, 2019

1) Solutions - recommendations:

a) Condition approvals prohibiting building at 4 Ave site:

- i) Condition appropriation and HLC exception permit on the DPU moving the Well to the park at State Street and Canyon Road. *Expressly condition the appropriation to prohibit building at 4th Ave and Canyon Road*. An underground transmission line would be built from the existing 4th Ave well borehole to a separate chemical treatment plant. Plant would be redesigned to be more flood, earthquake and terrorist resilient.
- ii) Condition on requiring the DPU and or Mayor's office requesting critical facility siting assistance which if free from the Utah Geologic Survey.
- iii) Condition on directing the DPU to apply to the RDA for a supplemental loan or grant to move the Well via an interlocal agreement.

b) Fund another 1.5M USD to move the Well:

- i) Raise DPU water, sewer and lighting rates by 8 mills.
- ii) Defer other DPU projects in the 2019-2020 budget from one year and reallocate more money to move and build the Well.
- iii) Have the Council and Mayor in their capacity as the RDA Board and Director make a loan or grant to move the Well. The CBD is the primary beneficiary and should contribute more in proportion to what it will receive.

2) Problems - 4th Ave site and design:

- a) **Earthquake Risk** During a predicted 6.75 magnitude or greater earthquake, ground liquefaction could cause the building to fail, breach the chemical sodium hypochlorite (bleach) storage container, and result in neighbors have to deal with a chlorine gas cloud and-or chemical spill while the digging their neighbors out from the rubble.
- b) **Flooding Risk** The 4th Avenue site is in the geologic streambed of City Creek. Although City Creek at this point bypassed by the 1910 conduit and flood protection was upgraded after the 1983 flood, the site is a risk for cloudburst flooding of 2,400 cubic per second, as occurred at Perry's Hollow in 1945. Possible cloudburst flows are multiple times beyond the capacity of existing flood protection control structures.
- c) **Management Factors** The DPU has already spent about \$500,000, including common project administrative overhead, on siting and construction preparations. The Council should put a stop to the debate and direct the DPU to concentrate on a more technically and socially optimal site.
- d) **Terrorist Risk** The unique siting at the mouth of Canyon Road makes the chemical treatment plant too an attractive target for a terrorist attack in which the sodium hypochlorite stored inside would be used as one part of a binary chemical weapon. This siting constraint is unique to Memory Grove and does not extend to the other proposed treatment plant at "U" and 5th Avenue, also in the 2019-2020 budget.
- e) **Building Design** On May 9, the DPU proposed a smaller building (30 x 60 feet) in response to neighborhood input. This industrial facility is intrinsically incompatible with the historic neighborhood. It could be resized and redesigned to make it more earthquake, flood, and terrorist design. That is the inherent design dilemma that cannot be resolved at the 4th Ave site. Those engineering trade-offs are solvable at the proposed, but more expensive, relocation site.
- 3) **Rebuttal: Equity Justification and the Increased Cost of Relocation:** In 2016, the Council waived at least \$7.1 million in developer fees in order to spur high density growth in the CBD, but claims will now be made that there is not enough money to move the Well. Now that the growth is here, water infrastructure upgrades for water quality and higher water pressure are needed for the CBD. If built at 4th Ave and if surrounding property values decline 8%, property owners will lose an estimated at \$992,000. The Well primarily benefits the CBD, and the CBD should be required to contribute to moving the Well in proportion to the benefits that the CBD will receive.

4) Images and multimedia

- a) What happens when irresponsible teenage boys mix small amounts of sodium hypochlorite and ammonia <u>https://youtu.be/56hxLYWIKfs?t=36</u>
- b) What happens when irresponsible teenage boys mix small amounts of sodium hypochlorite and brake fluid <u>https://youtu.be/iwhzbiPuLS8?t=81</u>
- c) Cloudburst Flooding
 - i) Salt Lake Telegram, August 20, 1945.



ii) Salt Lake Telegram, August 24, 1918.

PROPERTY DAMAGED BY BIG CLOUDBURST

Serious damage to private property in the vicinity of West Capitol and Wall streets was caused by last night's cloudburst. The city street department went into action this morning to clear up the debris washed down by the flood. Hundreds of dollars of damage will be caused to private property, according to an announcement made today by W. P. Gillesple, superintendent of the city street department.

Front lawns, gardens and even cellars were inundated today by a layer fo silt and debris a foot deep in some places. It was reported that debris had been carried as far as Second West street. Dr. Wooley's summary of the event as reported in the August 24, 1918 Deseret News, stated that "great boulders were carried several blocks" and that silt at 200 West was 1 foot deep:

Great boulders were carried several blocks, and lawns and roadbeds were washed out or covered with debris. Storm centered on hill north of State Capitol. Silt carried to Second South Street was 1 foot deep. (DN Sept. 24, 1918.)