

Ogden, Feb. 16<sup>th</sup> 1891

In the matter of overflow into cellars from old drain on 24<sup>th</sup> St. & Wash. Ave. Notably, the cellar of P. J. Kiesel.

9 A.M. Found fire-engine pumping from Kiesel's cellar.

Assertion by P. J. Kiesel & others that drain was obstructed, <sup>(and)</sup> that such obstruction was due to sewer work where trenches crossed at Lincoln & Grand Avenues.

Visited both points with P. J. Kiesel & Wm. H. Turner, Mayor.

Found both localities caved, but not open.

### Investigation. -

9.15 A.M. Outlet discharging to full capacity, and stream very muddy.

Had crossing at Lincoln Ave. uncovered. Old drain running over as soon as tapped. Channel clear of obstruction.

Had pump well used during recent construction just E. of Lincoln Ave. uncovered drain running full, clear of obstruction, and surcharged same as below. Current very rapid in both places, and 3 ft. deep.

9.30 had drain uncovered at Grand Avenue. Same condition. Better drain washed in some gravel after old drain was uncovered, causing some slipping. Witnesses of foregoing facts, A. L. Hobson, L. J. Wilkerson, & R. W. Paris Co. Surveyor

10 A.M. Followed course of drain with witness R. W. Paris found 19 places where water-pipe trenches, lately cut, crossed old drain, every one showing evidence of

having sunk & of having received large amount of surface water. 9

One in front of City Jail showed evidence by size of hole, & scum about it, of having carried a tremendous volume of water.

1 P.M. Water-pipe trench opp. Academy still carrying full stream into old drain.

Witnesses J. E. Coolidge, Archie Bowman, A. L. Hobson; Wm. Darnell.

Notes. Last night had heavy rain, <sup>(and)</sup> South wind, which thawed snow, & created floods of surface water.

Same causes occasioned surcharge & overflow from Weber Canal, all of which flooded Washington Avenue.

Ground being frozen, & streets & gutters in bad shape, water ponded all along street - evidenced by muddy water mark on sidewalks.

And finding water trenches filled with loose earth, rain through them into old drain, & surcharged it to such an extent that it ran under a head all its course.

2 P.M. Stream lowered W. of Grand Ave considerably.

Delivery from W. Wks. trenches into old drain was possible by reason of following facts -

Old drain was constructed on natural gravel bottom, of dry rubble walls, with stone slabs as cover, & is everywhere open to drainage water.

Trenches for water pipe, assumed to be four feet deep, would reach nearly or quite to the cover of old drain, & when filled with