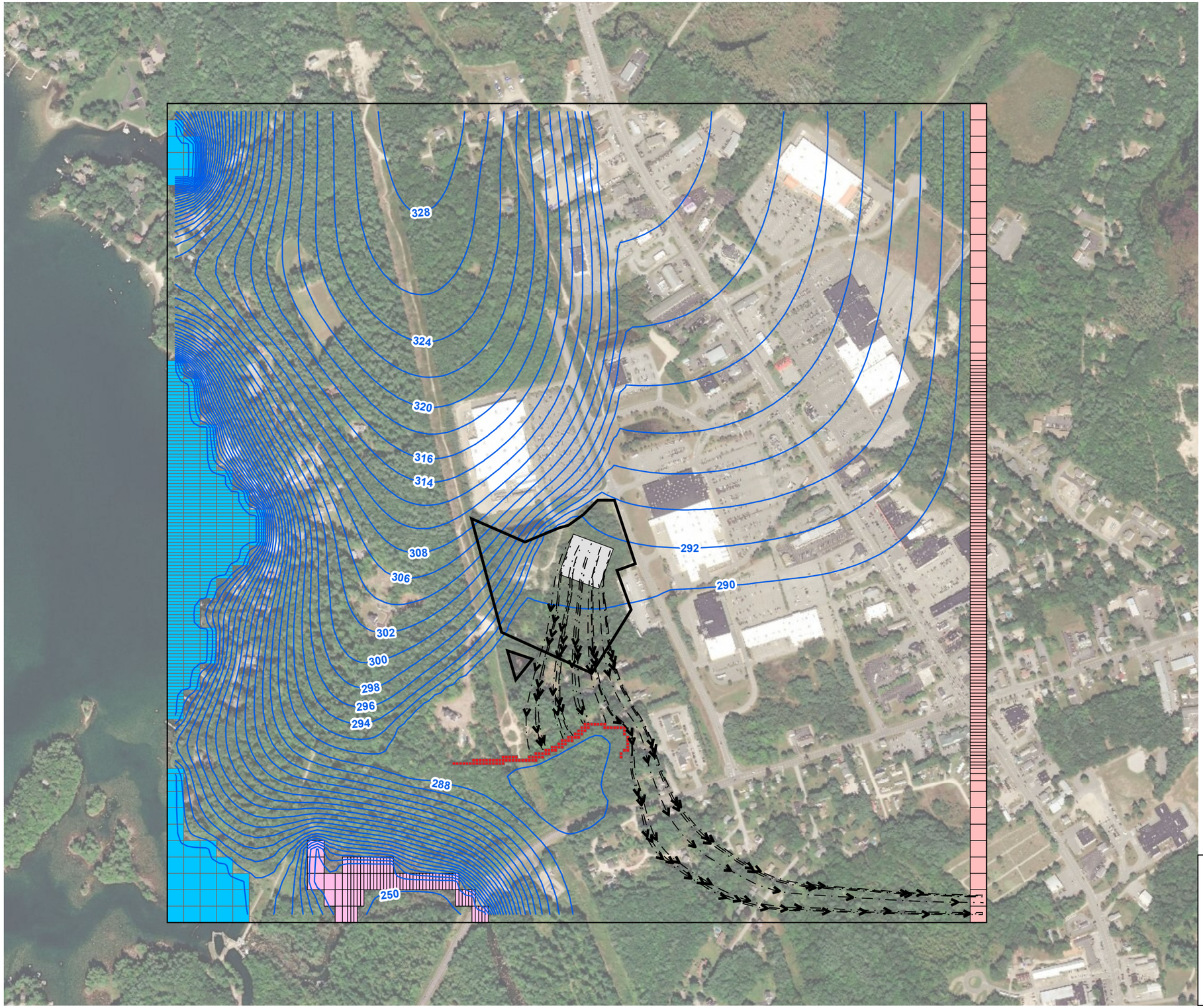
Manchester Drive Site Wastewater Disposal Evaluation Update

- Completed Activities/Findings:
  - Wright Pierce Conducted Sites Soils and Hydrogeologic Studies and prepared Draft Applications to Maine DEP and Maine DHHS For Subsurface Wastewater Disposal System Permits
  - Town Staff Reviewed Draft Applications with Maine DEP, DHHS Staff and PWD in November
  - DEP Raised Concerns Regarding Potential Impact to Nearby Drainage Basin From Groundwater Mounding due to Wastewater Disposal at Manchester Drive site
  - Haley and Aldrich Conducted More Sophisticated Modeling to Further Assess Mounding Concerns (see attached maps)
  - H&A Modeling Shows Surface Breakout of Treated Wastewater onto Neighboring Properties
- Next Steps:
  - Consider Whether to Extend Option on Manchester Driver for 60-90 Days for further alternative solutions review.

EXHIBIT A



LEGEND

- CONSTANT HEAD BOUNDARY, HEAD = 288.0 FT NAVD88
- RIVER BOUNDARY - SEBAGO LAKE BASIN, HEAD = 259.64 FT NAVD88
- RIVER BOUNDARY - PRESUMPSCOT RIVER, HEAD = 249.0 FT NAVD88
- DRAIN BOUNDARY - OBSERVED DISCHARGE AREA HEAD = 289.50 FT NAVD88
- DRIP IRRIGITATION AREA, AREA = 67,000 SQUARE FEET
- SIMULATED GROUNDWATER FLOW CONTOUR, 2 FT SPACING
- SIMULATED MODPATH PARTICLE TRACES
- MODEL DOMAIN ACTIVE AREA

NOTES

1. GROUNDWATER FLOW CONTOURS REPRESENT STEADY- STATE MODEL CONDITIONS - NO INFILTRATION

2. MODPATH ARROW HEADS REPRESENT 100 DAY INTERVALS

3. AERIAL IMAGERY SOURCE: ESRI

N

0 600 1,200
SCALE IN FEET

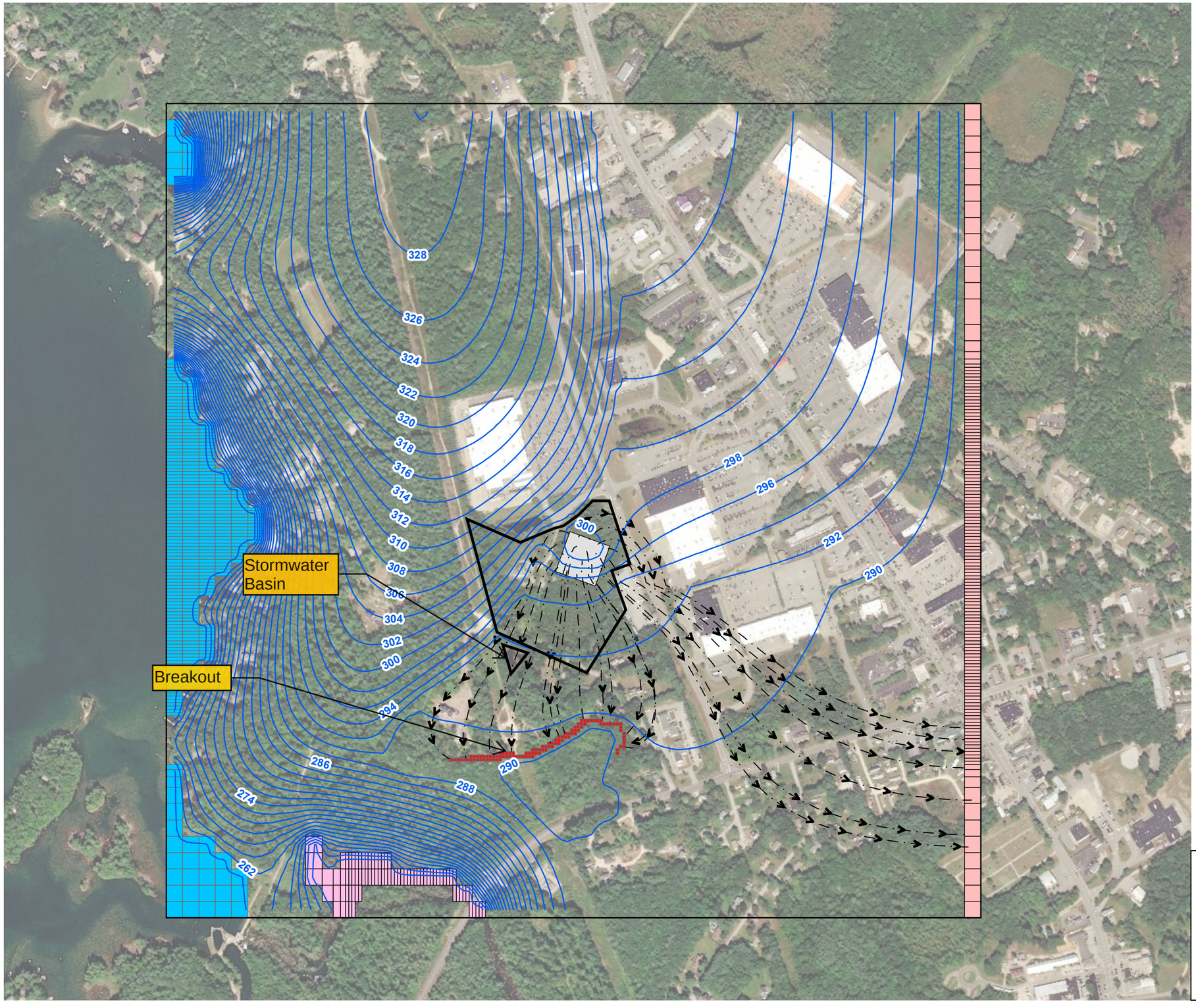
HALEY ALDRICH

MANCHESTER DRIVE SITE
WINDHAM, MAINE

GROUNDWATER MODEL
SIMULATED GROUNDWATER FLOW

SCALE: AS SHOWN
DECEMBER 2019

EXHIBIT B



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- MODEL DOMAIN ACTIVE AREA

NOTES

1. GROUNDWATER FLOW CONTOURS REPRESENT INFILTRATION FLOW MODEL SIMULATION RESULTS

2. RECHARGE BOUNDAY ASSIGNED VALUE OF 0.1995 FT/DAY AT DRIP IRRIGATION AREA TO REPRESENT 100,000 GPD INFILTRATION RATE

3. MODPATH ARROW HEADS REPRESENT 20 DAY INTERVALS

4. AERIAL IMAGERY SOURCE: ESRI

N

0 600 1,200
SCALE IN FEET

HALEY ALDRICH

MANCHESTER DRIVE SITE
WINDHAM, MAINE

GROUNDWATER MODEL
INFILTRATION SCENARIO
SIMULATED FLOW

SCALE: AS SHOWN
DECEMBER 2019