Air Force Civil Engineer Center

FORMER
WILLIAMS AIR FORCE BASE

Site ST012

Former Liquid Fuel Storage Area

BCT Update

28 March 2018

ED_005025_00007791-00001

Site ST012 Outline

- Summary of Activities Since February BCT update
- Update on JP-4 degradation based on methane at SVE system
- LNAPL Monitoring/Removal Update
- Path Forward

ED_005025_00007791-00002

Site ST012 Activities Since February

- Continued SVE operation
- Continued LNAPL screening in accessible SEE wells and Phase I characterization wells
- EBR Pilot Study Implementation Work Plan under AF review

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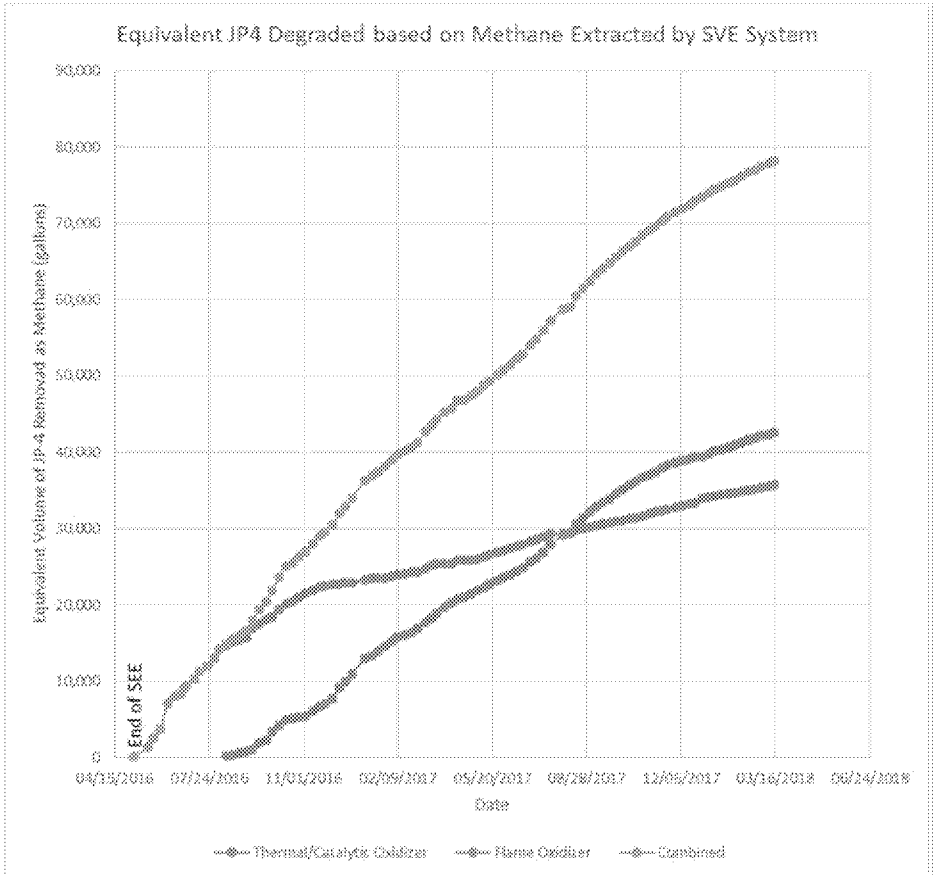
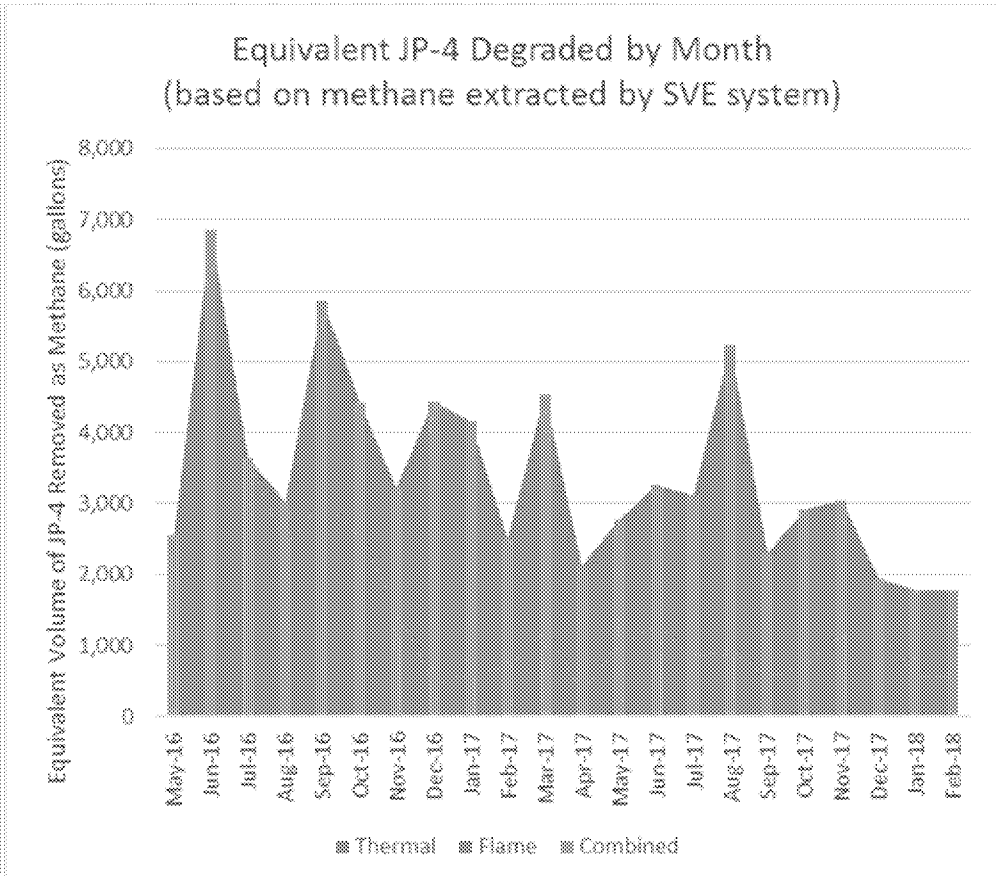
JP-4 Degradation Based on Methane Removed with SVE (through 15 Mar)

ED_005025_00007791-00004

Site ST012 SVE System Equivalent JP-4 Degradation Based on Methane Removed





Estimates through 15 Mar 2018.

Estimated JP-4 degradation as methane is in addition to JP-4 removal reported for SVE

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LNAPL Monitoring Update (through 16 Mar)

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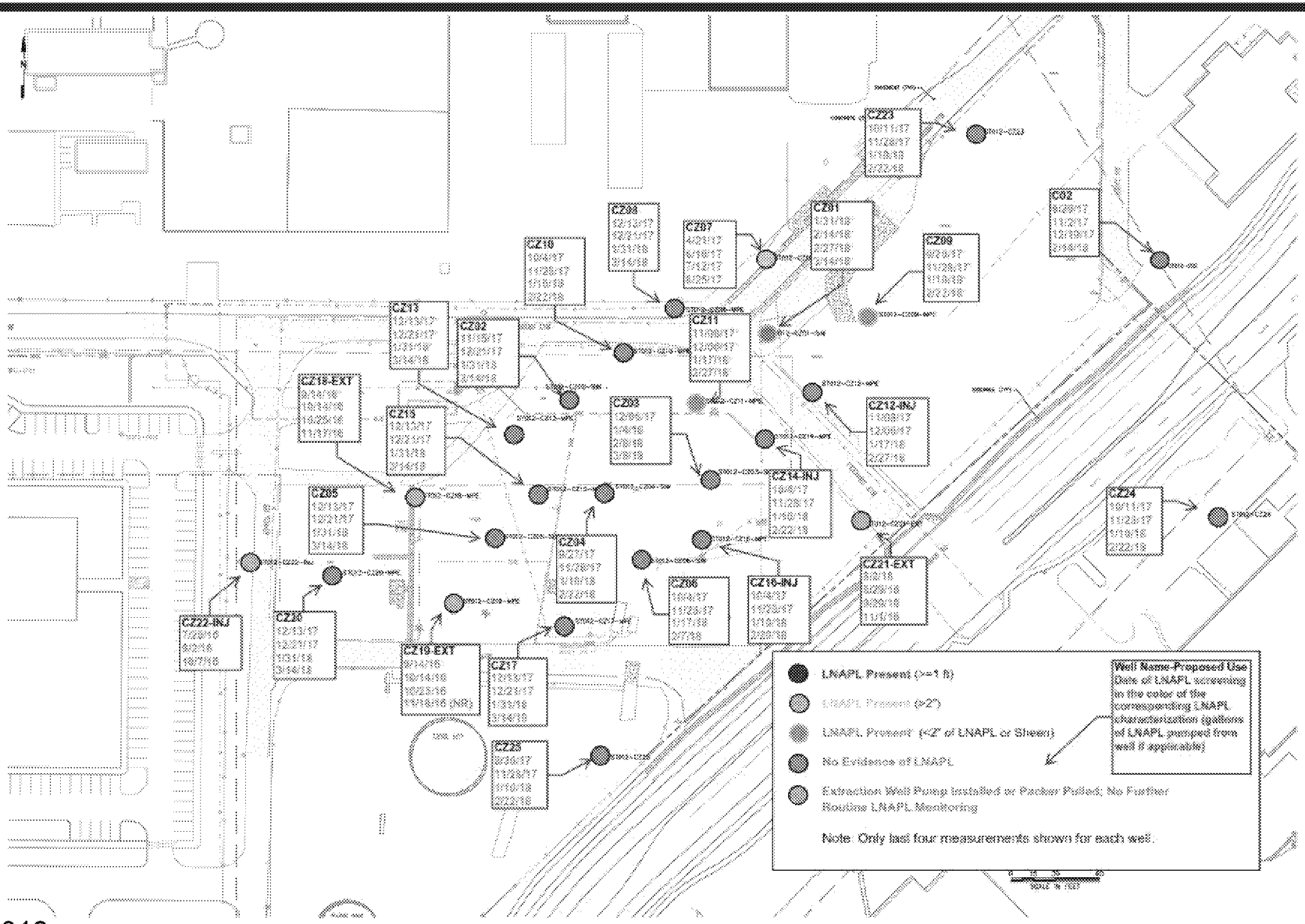
LNAPL Monitoring/Removal Status
Cobble Zone



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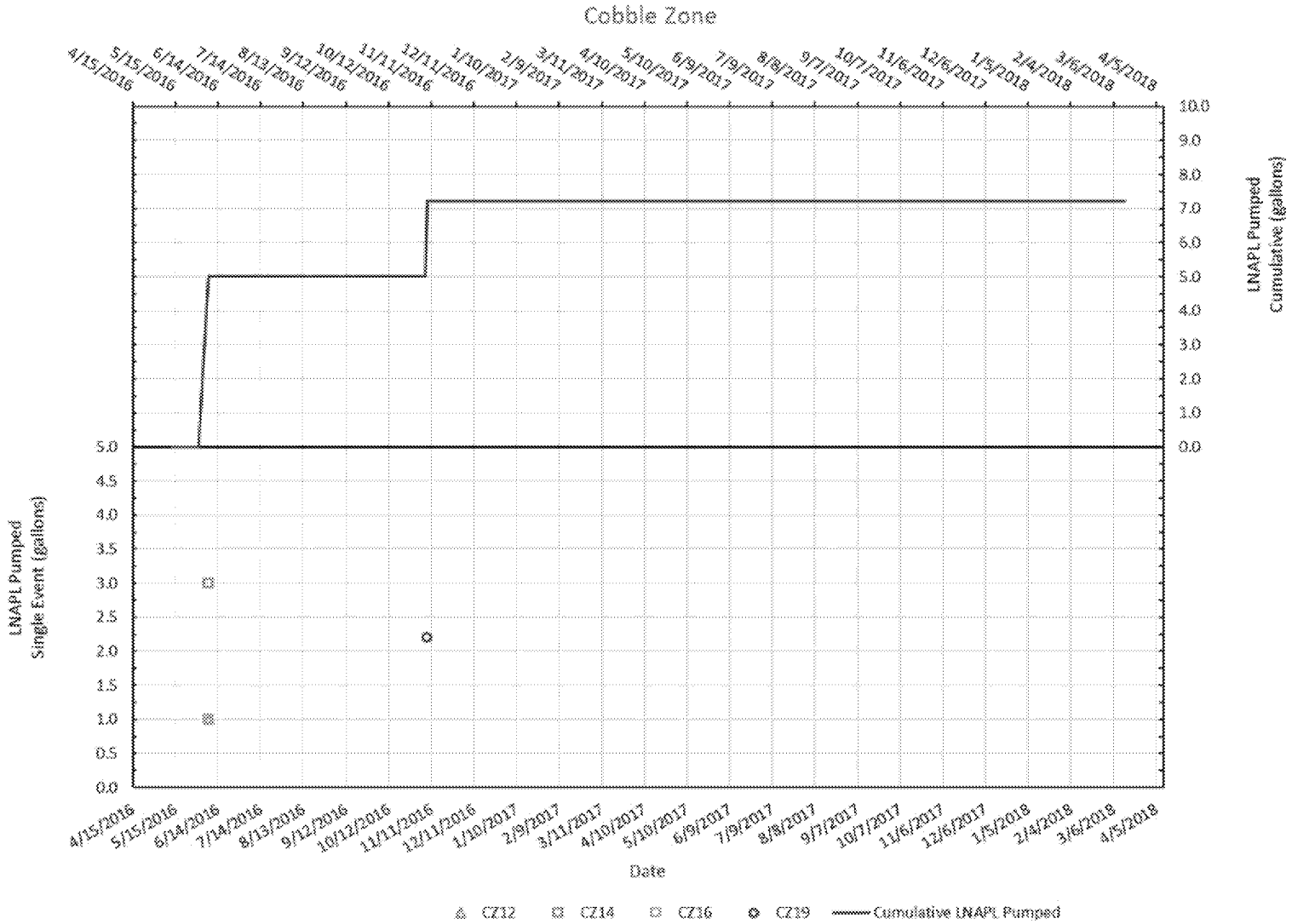
LNAPL Monitoring/Removal Status
Cobble Zone



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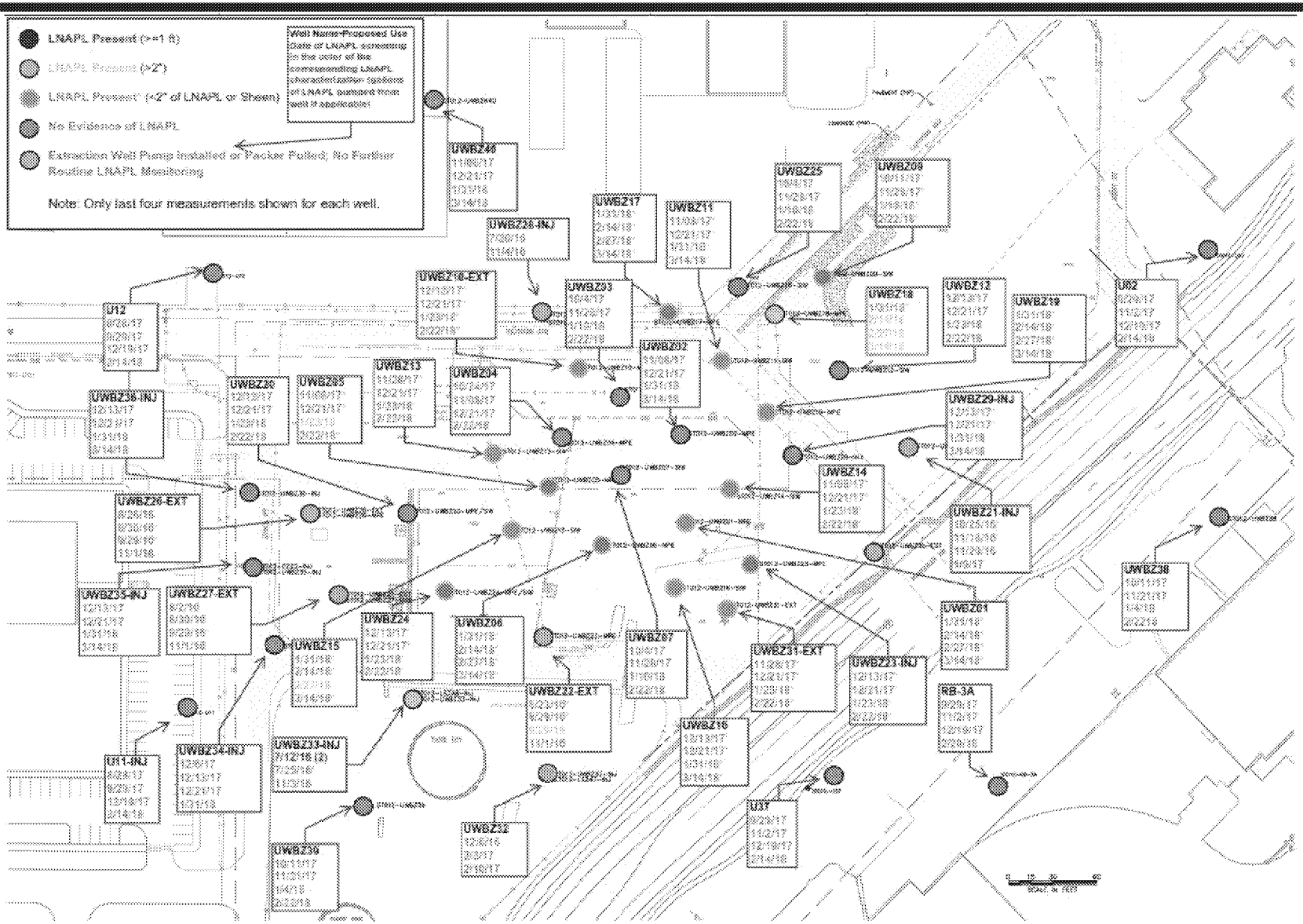
LNAPL Monitoring/Removal Status
Upper Water Bearing Zone



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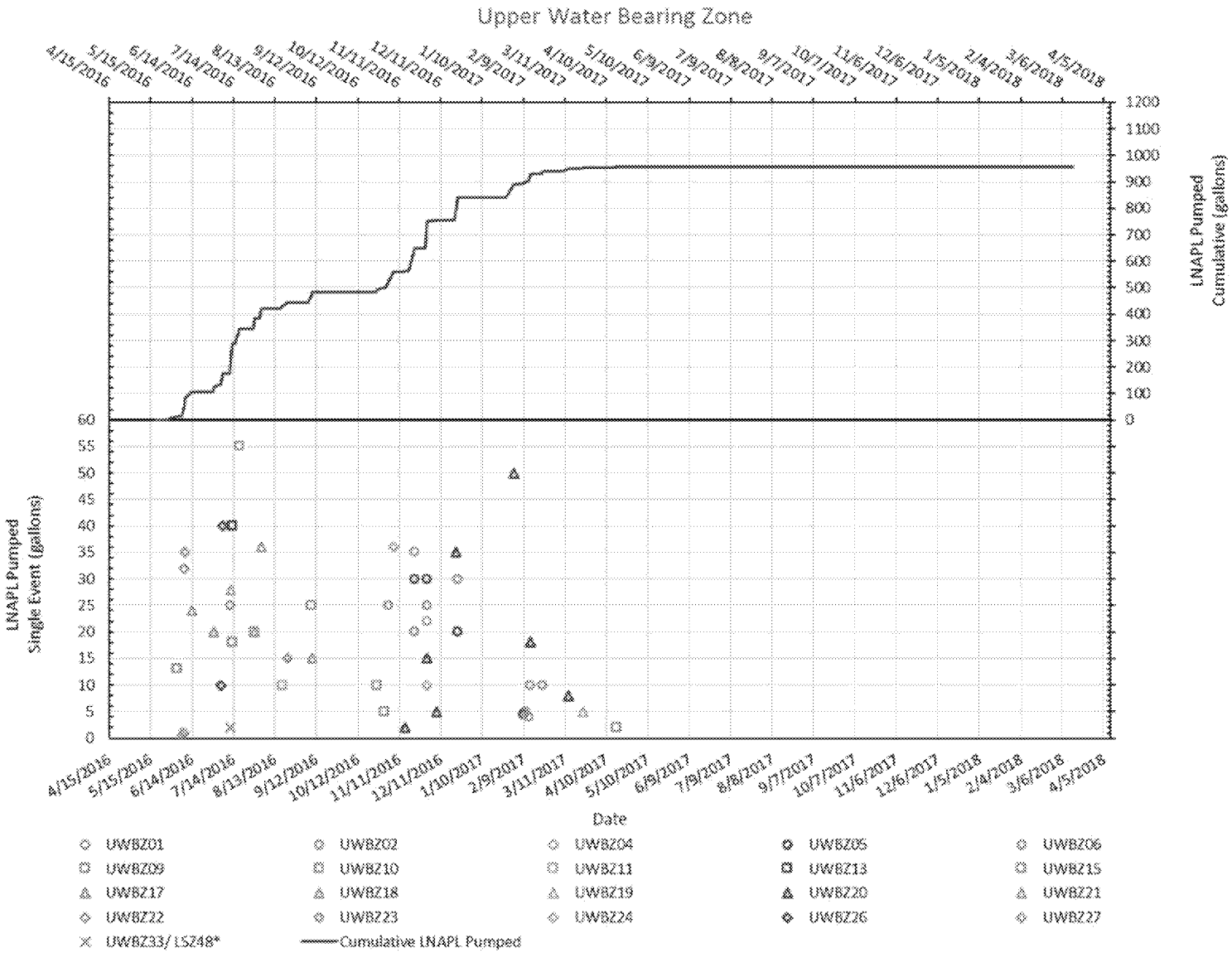
LNAPL Monitoring/Removal Status
Upper Water Bearing Zone



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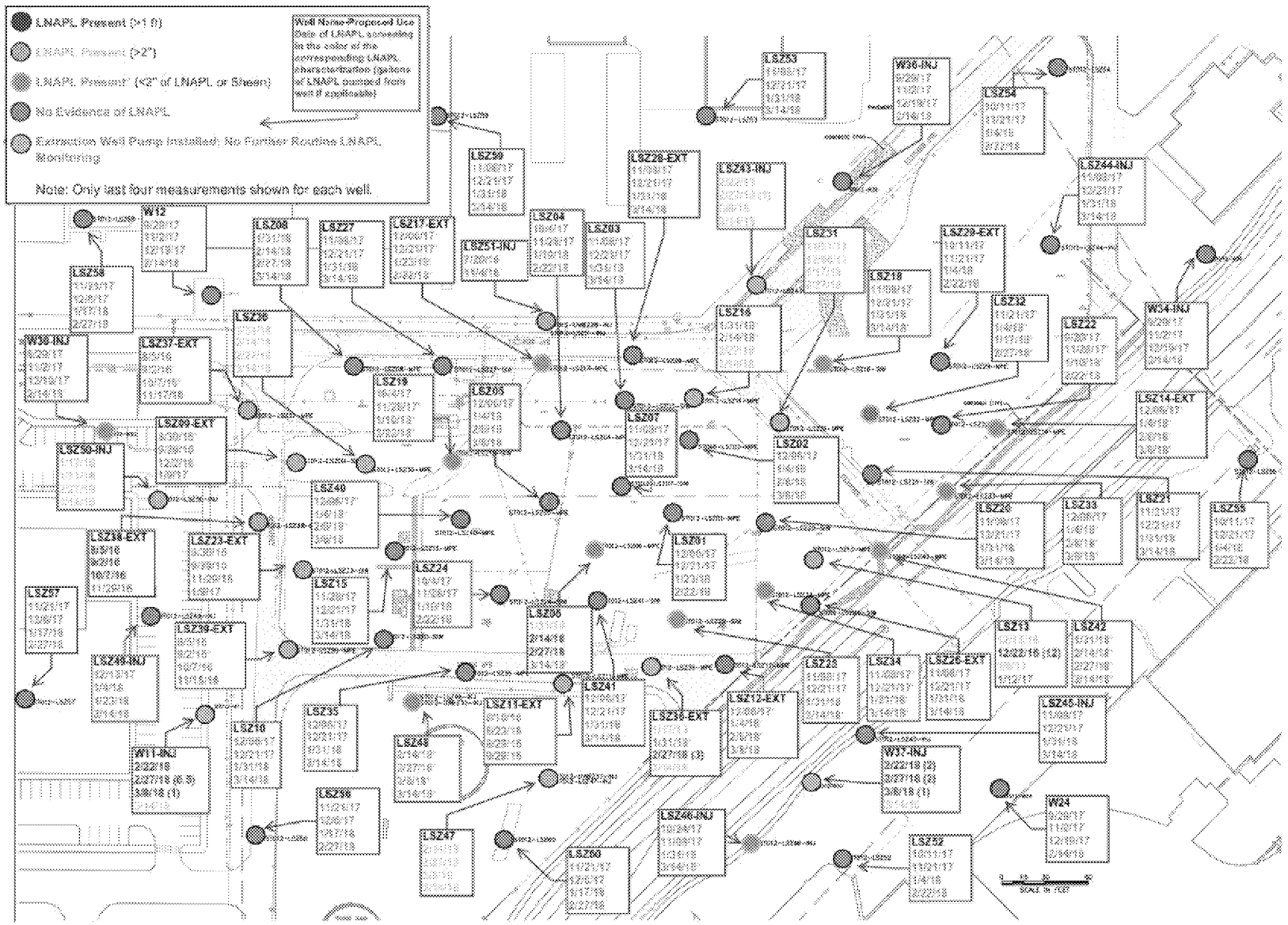
LNAPL Monitoring/Removal Status
Lower Saturated Zone



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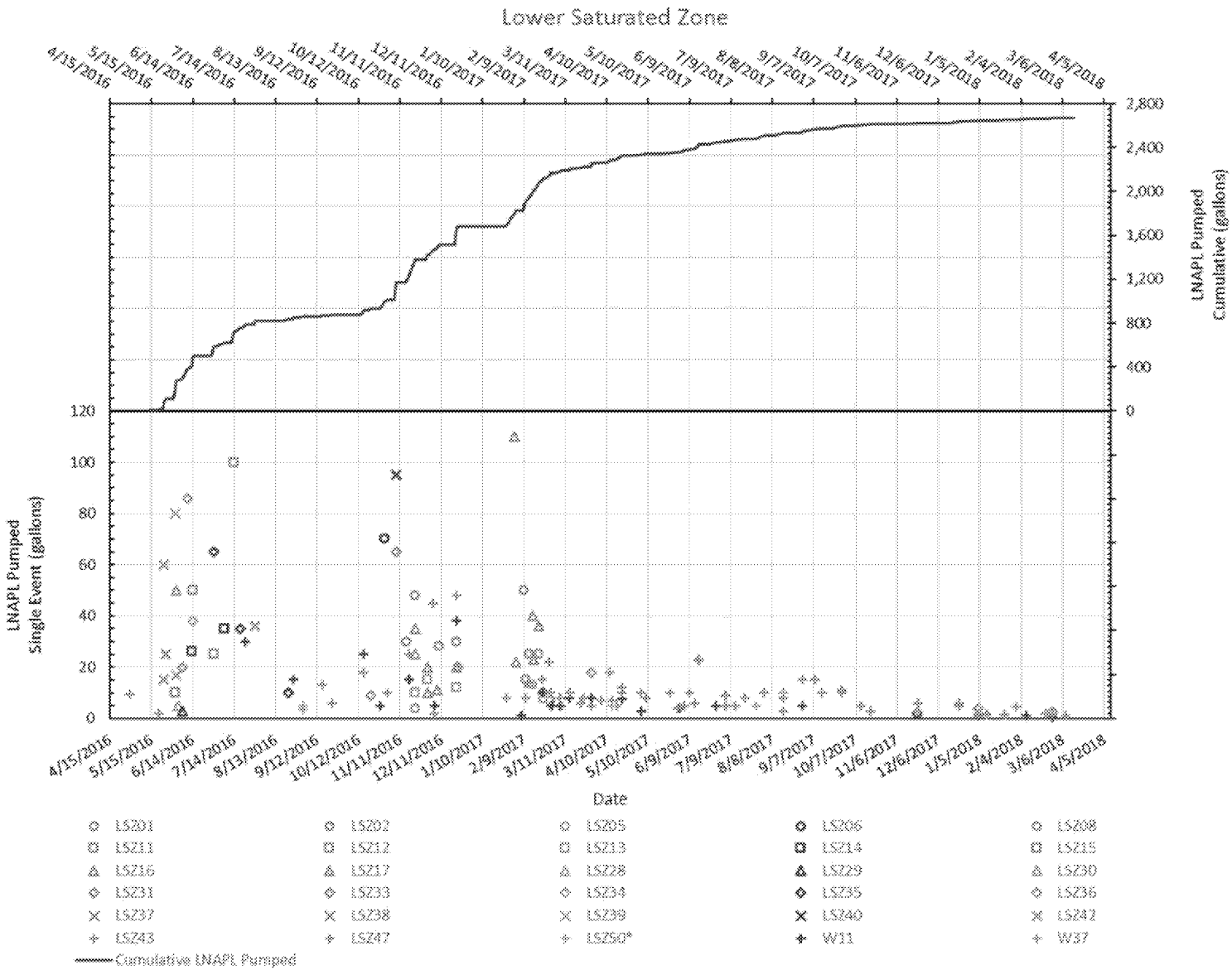
LNAPL Monitoring/Removal Status
Lower Saturated Zone



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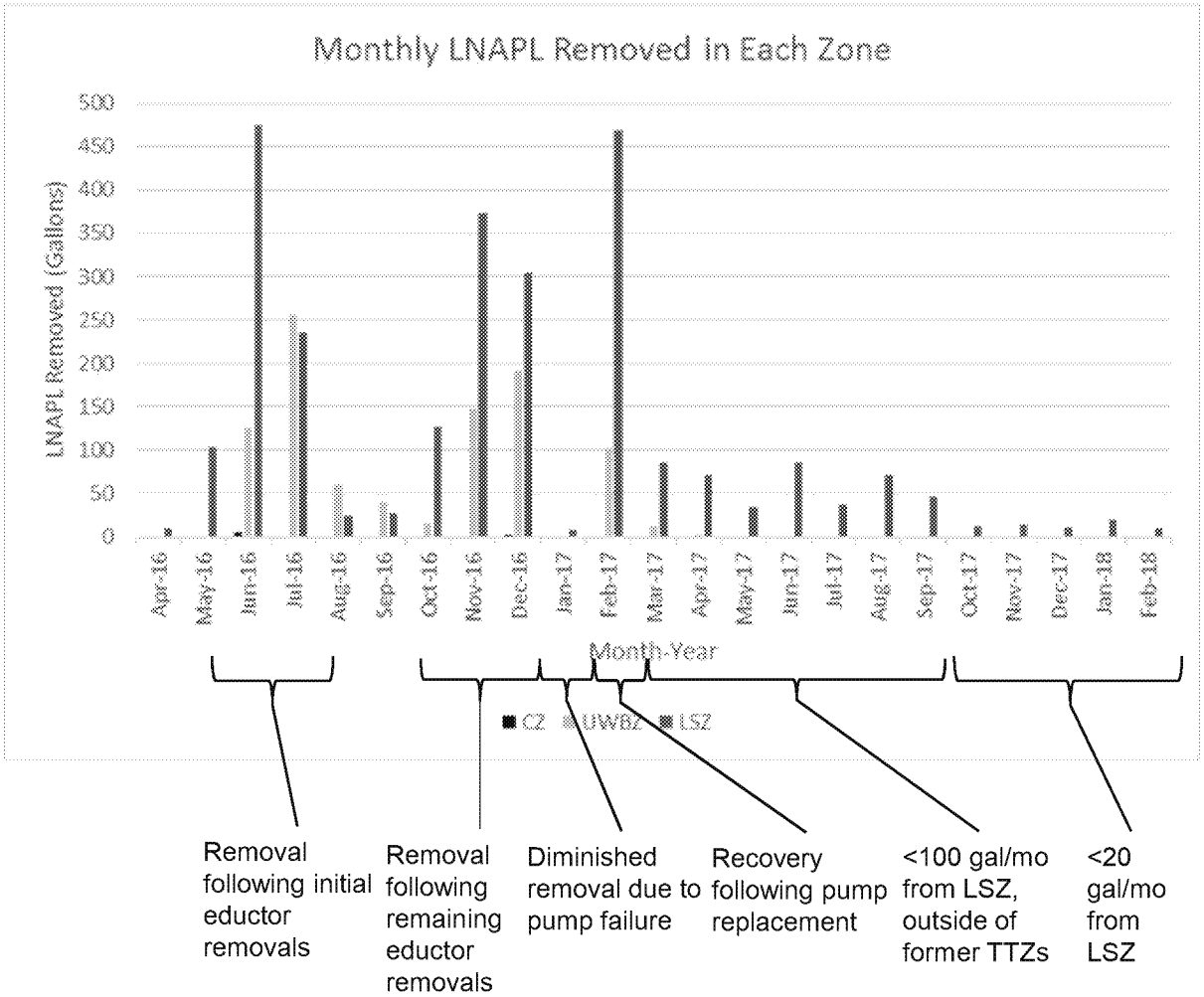
ST012 LNAPL Monitoring/Removal Summary

- CZ – 7 gallons of LNAPL removed. None since Nov 2016
- UWBZ - 956 gallons* of LNAPL removed. None since Apr 2017.
- LSZ - 2,667 gallons* of LNAPL removed. 10 gallons removed since Feb 2017 update (W11, W37, LSZ36, LSZ43).

*LNAPL previously included in UWBZ total for ST012-UWBZ32 /LSZ47 was moved completely to LSZ total



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Site ST012 Activities Mar-May

- Continued SVE operation
- Continued LNAPL screening
- Submit Pilot Study Implementation Work Plan 30 Mar
- Re-baseline Sampling 2-27 Apr
- EBR Construction 2 Apr – mid May
  - Injection piping
  - Pump relocation/installation
  - Sulfate storage area/order sodium sulfate
  - Sulfate mixing tanks
- EBR
  - Startup extraction/shakedown treatment system mid May
  - Evaluate effect on LNAPL accumulation/recovery mid May
  - Injections TBD (early June depending on LNAPL response)

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