

Aerojet Activities – September 2012
(Bold Items shown on Figure)

- A **GET L-A**
- B **GET L-B**
- C **ARGET**
- D **AC-6**
- E **AC-12** Completed land purchases. Will be beginning construction of facilities next month.
- F **AC-18** and **AC-23** -
- G **GET B** -
- H **GET E/F** purchased IX units for perchlorate removal – allowing plant expansion
- I **GET D** will be closing and moving treatment to **ARGET**
- J **GET J**
- K **GET K** – should complete conversion of AC-12 to extraction well early 2013.
- L **GET H** – purchased existing IX units – pressure drop has been too great and future extraction wells
- M **White Rock Road North Dump**
- N **New Monitor Wells/Extraction Wells:**
 1. New monitor well in Sutter Park northwest of the GET L-B facility to help define the NDMA plume and evaluate capture. Well has been put in and initial samples did not find any concentrations of NDMA.
 2. Monitor well in Rossmoor Bar Park to define NDMA plume – this well has been installed and an initial concentration of NDMA was found between 2 and 5 ppt (not quantifiable).
 3. GET E/F extraction well 4730 near Chemical Plant 2 is screened in Layer E has been drilled and the electrical is being completed.
 4. Several new extraction wells south of the GET B facility as part of the PGOU remedy implementation.
- O **Chettenham Well**
- P Sacramento County Water Supply Replacement Issues.
- Q Western Groundwater Operable Unit. Agencies have supplied comments on the plume maps that can be found on GeoTracker. We have also supplied comments on the Outer Barrier Effectiveness Report and the Agencies have supplied comments.
- R Perimeter Operable Unit – The Agencies have provided Aerojet comments on the revised work plan for soil vapor extraction at Sites 32D, 34D, 35D and 38D. Aerojet has removed soils impacted by perchlorate at site **C41** within the PGOU. The confirmation sampling showed some small areas above cleanup levels and removing additional soils. Aerojet has conducted some additional sampling at site **C4** to evaluate the extent of lead above 80 mg/kg prior to excavating the shallow soils there. The extent was greater than initially estimated. GET D to **ARGET** pipeline is being bid. Aerojet is revising Preliminary Design Report for groundwater (Zone 1 and 3) remedy in

response to comments and is waiting on complete receipt of comments on the Zone 2 design.

- S Boundary OU – Aerojet is in the process of finalizing responses to comments on the risk assessment. Would appear that comments have been adequately addressed to the risk assessor's satisfaction. FS is anticipated to be submitted at the end of September. A response to CAG comments is also anticipated to be completed by the end of the month
- T Island OU – With moving Area 39 to the IOU in order to complete the Baseline Ecological Risk Assessment and not delay BOU, Aerojet has provided a BERA work plan and is awaiting Agency comments. IOU RI anticipated to be submitted by the end of the year. Aerojet is also preparing a Human Health Risk Assessment for the Hogout site as an example to have the agencies look at prior to preparing the HHRA for the entire OU. Aerojet will be submitting a revised fate and transport tech memo for groundwater for the IOU by the middle of October. Provides rationale for model inputs – primarily how aquitards will be assessed.
- U Treatability Studies:
 - i) **Line 03.** (Walnut shell/sulfur destruction of perchlorate) Temporarily shut down as nitrogen gas formation has caused some overflow of the Redox box. Nitrogen gas coming from reduction of nitrate and ammonia. Was working well in destruction of perchlorate. No change
 - ii) **Bioremediation of NDMA.**
 - iii) Encapsulated Bacteria for NDMA Destruction. Completed – mixed results.
 - iv) HIPOx for NDMA destruction at **GET B**
 - v) Column Studies –Atlantium UV at **GET B** - study complete.
 - vi) Area 40 PRB. Latest results show completed degradation of perchlorate 13,000 to <4 µg/L TCE is being degraded from 43,000 to <50 µg/L but destruction is not as completed as 1,2-DCE is being seen downgradient at 1,000 to 5,000 µg/L.
- V Eastern Operable Unit.
- W Central Operable Unit
- X NPDES Permit.
- Y IRCTS:
 - i) **Sigma Complex In-situ Bioremediation of Groundwater.** Boeing is has turned the system off and is evaluating rebound in groundwater. Concentrations of perchlorate have been reduced significantly.
 - ii) **White Rock Road Dumps 1 and 2.** Revisions to design and implementation plan have been submitted and undergoing review. Looks like construction may not occur until next spring as the County approval and bidding process must still take place.
 - iii) **GET F Sprayfield and PBA.**
 - iv) **GET H-B**

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