

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

- A **GET L-A**
- B **GET L-B**
- C **ARGET**
- D **AC-6**
- E **AC-12** Have commenced construction activities to turn the well into an extraction well.
- F **AC-18** and **AC-23**
- G **AC-24** – well constructed. Still need to complete site improvements – operational in early 2013.
- H **GET B** -
- I **GET E/F** purchased IX units for perchlorate removal – allowing plant expansion
- J **GET D** will be closing and moving treatment to **ARGET**
- K **GET J**
- L **GET K** – should complete conversion of **AC-12** to extraction well early 2013.
- M **GET H** – purchased existing IX units – pressure drop has been too great and future extraction wells
- N **White Rock Road North Dump**
- O **New Monitor Wells/Extraction Wells:**
 1. Aerojet has constructed three new extraction wells in Zone 3 to fill in areas where capture is not complete. Layers E and F D.
 2. Planning a new Zone 1 monitor near well 4380 to assess capture.
- P **Chettenham Well**
- Q Sacramento County Water Supply Replacement Issues.
- R Western Groundwater Operable Unit. Aerojet is revising its submittal on a draft 2013 groundwater monitoring plan. Revised plan to be submitted later in December..
- S Perimeter Operable Unit – Aerojet has collected soil samples in Area 4900 to help design of a proposed SVE system. Samples provide data for input into models to assess the area that needs remediation. Aerojet has removed soils impacted by perchlorate at site **C41** within the PGOU and has issued a closure complete letter. **GET D** to **ARGET** pipeline contract awarded. Aerojet is revising Preliminary Design Reports for groundwater (Zones 1, 2 and 3) remedy in response to comments and discussion an agency meeting in October that focused on groundwater issues. Site **C4** – lead and dioxin contaminated soil excavation to one foot. Need to do more digging in parts of the site.
- T Boundary OU – Response to CAG comments completed and will be provided at the December CAG meeting. Feasibility Study submitted to the Agencies. Agencies supplied comments on remedial areas found in the FS to Aerojet at the December 2012 Agency Technical Meeting.
- U 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 submitted a revised fate and transport tech memo for groundwater for the IOU. Provides rationale for model inputs – primarily how aquitards will be assessed.

V 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. .

W Eastern Operable Unit.

X Central Operable Unit

Y NPDES Permit.

Z IRCTS:

- i) **Sigma Complex In-situ Bioremediation of Groundwater.** Boeing 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.** 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.** Two new extraction wells have been constructed to expand capture of perchlorate plume.
- iv) **GET H-B**

Aerojet Activities - December 2012 CAG Meeting

