

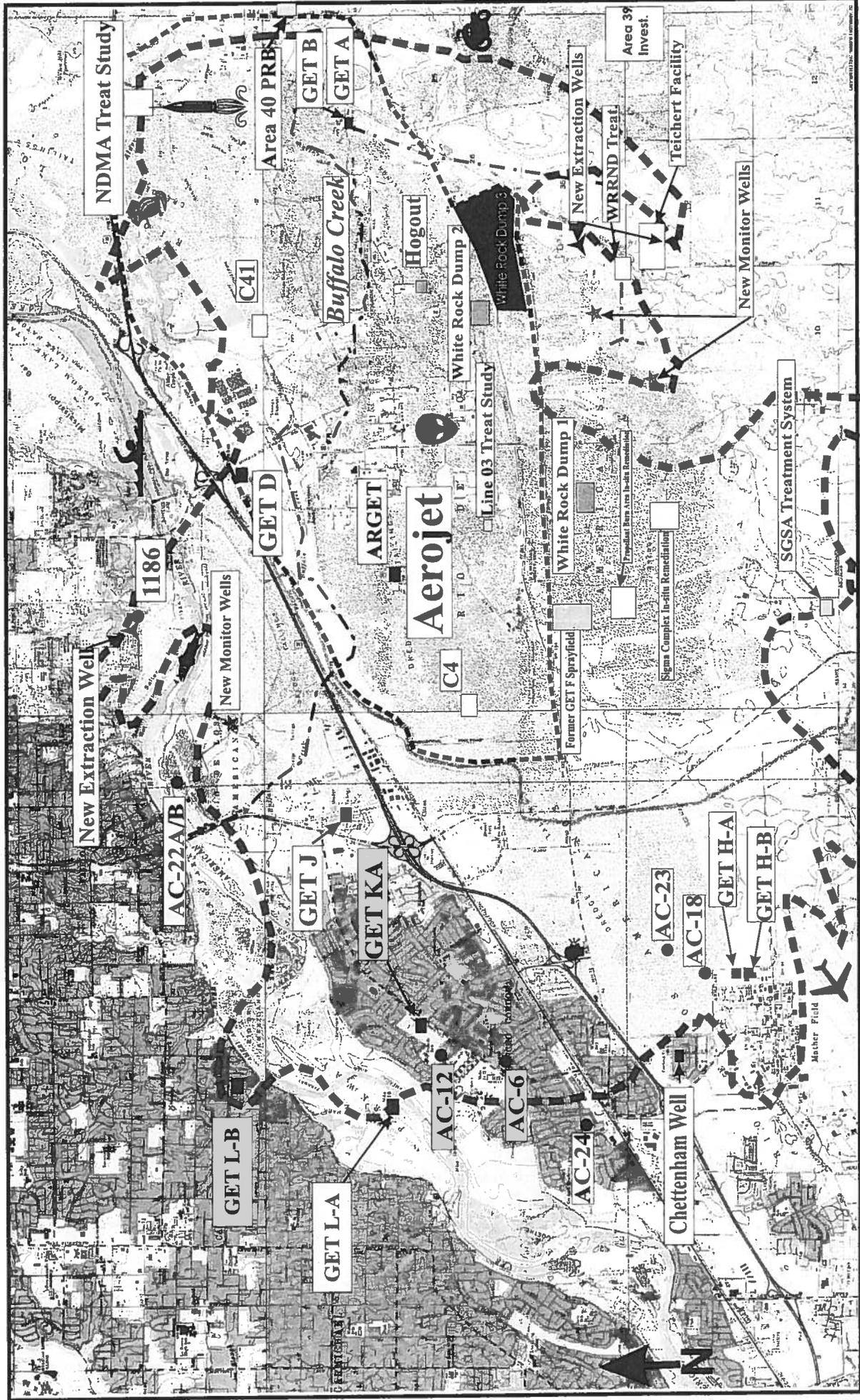
Aerojet Activities – September 2013
(Bold Items shown on Figure)

- A **GET L-A**
- B **GET L-B**
- C **ARGET**- Constructing GET D to ARGET pipeline. GET D facility will go away. The construction of the expansion of the ARGET facility has commenced. Adding perchlorate treatment to the facility. Operational in early December 2013.
- D **AC-6**
- E **AC-12** Converted to an extraction well and is sending water to GET KA.
- F **AC-18** and **AC-23**
- G **AC-24** – Well is operational.
- H **GET AB** – Plant being modified to allow increased capacity. Construction is on-going and the facility is expected to be fully operational at a capacity of around 3500 gpm in Spring 2014.
- I **GET E/F** Plant modifications underway. Installing IX units for perchlorate removal – allowing plant expansion. Added a screw press to dewater the solids generated by the biological process. Dewatered solids will be hauled for disposal.
- J **GET D** will be closing and moving treatment to ARGET
- K **GET J**
- L **GET K** –
- M **GET H** – Installing additional IX units – pressure drop has been too great and added flow with new extraction wells now operational.
- N **White Rock Road North Dump** -
- O **New Monitor Wells/Extraction Wells:**
 1. **New monitor wells.** A new monitor well at Gold Strike and Gold Country Blvd to help define plume in deeper layers.
 2. Two new monitor wells south of White Rock Road in Zone 3 have been completed near existing extraction wells to help define plume capture.
 3. Two monitor wells to replace wells destroyed during White Rock Road widening project have been completed Wells on east end and White Rock North Dump.
 4. **Extraction well** proposed west of Grant Line Road and south of White Rock Road to help control NDMA plume.
 5. Another **extraction well** is proposed at the end of Emperor Drive in Sailor Bar Park.
 6. Evaluating a need for an additional **extraction well** on the Teichert site east of Grant Line Road to complete capture of the toe of the plume.
- P **Chettenham Well**
- Q Sacramento County Water Supply Replacement Issues.
- R Western Groundwater Operable Unit. Work on well **1156** in Sailor Bar Park to get more flow out of it has been completed. Operating at 225 gpm until NPDES permit is revised to allow for increased flow – up to 400 gpm..

- S Perimeter Operable Unit – Aerojet working on revisions to Preliminary Design Reports for groundwater (Zones 1, 2 and 3) remedy in response to Agency comments. Site **C4** – Initial site remediation complete. Confirmation sampling was performed for lead and dioxins and showed that the cleanup values were met. Will now address two small areas adjacent to the main cleanup to complete remediation of the entire C4 area. Field work at **49000 Area** is currently on-going to assess the need and design of a soil vapor extraction system.
- T Boundary OU – Proposed Plan out for public comment.
- U Island OU – Agencies have supplied comments on draft remedial investigation report and Aerojet is preparing responses. Aerojet has provided draft responses to Agency comments on Human Health and Ecological risk assessments for the Hogout site. Those documents were used as an example to have the agencies look at prior to preparing the HHRA and EcoRA for the entire OU.
- V **Area 39 Open Space** – Aerojet completed the collection of soil/soil vapor/surface water samples and constructing monitor wells in the southern part of Area 39 and off the property to the south and southeast. Aerojet is drafting a report that provides the results of that investigation. No change.
- W Treatability Studies:
- i) **Line 03**. No change
 - ii) **In-situ Bioremediation of NDMA**. Addition of propane into the shallow groundwater to stimulate bacteria to degrade NDMA finished field work. Report is being drafted. No change
 - iii) Encapsulated Bacteria for NDMA Destruction. Microvi expanded pilot study is on-going. 120 gpm at **GET E/F** – fluidized bed. On-going.
 - iv) HIPOx for NDMA destruction at **GET B**. Completed.
 - v) Atlantium UV at **GET B** – patented UV reactor. No changes
 - vi) **Area 40 PRB**. No Changes
 - vii) Use of So. Cal perchlorate ion exchange resin to pretreat IX system at Aerojet. Evaluation completed.
- X Eastern Operable Unit. Preparing Remedial Investigation report.
- Y Central Operable Unit
- Z NPDES Permit. The permit is being revised to allow for increased capacity at GET E/F and adding GET AB to the permit. Discharge from GET AB will be to Buffalo Creek, Rebel Hill Ditch and/or reused by Aerojet and Teichert.
- AA 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. No changes.
 - ii) **White Rock Road Dumps 1 and 2**. County Board of Supervisors has approved the closure plan and closure. Could be starting work in early October.

- iii) **GET F Sprayfield and PBA.** Two new extraction wells have been constructed and are awaiting pipeline to GET E/F as part of the PGOU effort.
- iv) **GET H-B.** No changes
- v) **SGSA Treatment System** – Due to the construction of a storm drain main along Douglas Road that will cut off the pipeline from the extraction wells on the south side of Douglas Road, Boeing will likely be constructing a small treatment system south of Douglas Road

Aerojet Activities - September 2013 CAG Meeting



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Added SGSA Treatment System