

AFCEE Galena Triad Meeting No. 8

ATTENDEES: See Attached
FROM: CH2M HILL
DATE: September 27, 2011

The Galena Triad meeting/teleconference was attended by members of the Air Force, ADEC, ADOT, CH2M HILL, and Booz Allen Hamilton. Please see the attached **Galena Triad Team Contact List** for attendees.

The meeting followed the standard agenda setup for the Galena Triad calls.

Agenda:

1. Safety moment
2. Status update for field work activities
3. Review of action items and conclusions from previous Triad meeting. Approval of minutes
4. Discussion of new site data and evaluating progress toward Work Plan objectives
5. Identifying additional work needed and/or concurrence that Work Plan objectives have been met
6. Open discussion of other items
7. Schedule update for upcoming activities

Safety Moment

Win discussed ladder safety.

Status Update of Field Work Activities

The field status update was provided by Melissa Buciak.

- Field team has transitioned to night time drilling while the runway is closed (10pm to 6am).
 - o DPT Teams 1 and 2 working at ST005
 - o Later this week 1 team will move to SS006 and TU001
 - o Hollow stem auger rig crew is off this week
- Groundwater sampling teams 1 and 2 continued the fall groundwater sampling event (approximately 120 wells sampled thus far).
- 6 newly installed monitoring wells remain to be developed
- Colette asked if location ST005-GP094 was going to be drilled in the ski strip runway surface. Kate clarified that it would be drilled south of the ski strip and Ronny and Melissa confirmed that they knew the ski strip location and would mark the sample location for drilling off the ski strip.
- Excavation at SS017 continues.
- The 2 well clusters at Ms. Thurmond's residence were installed.

Win added that there is currently a backlog of about 45 boring (approximately 9 days of drilling).

Review of Action Items, Approval of Minutes

The minutes from Triad No. 5 are with ADEC and ADOT for review and approval. The Triad No. 6 minutes will be sent to ADEC and ADOT by tomorrow.

New Site Data and Evaluating Progress toward Work Plan Objectives

SS015 – Soil Data

The data from the soil stepouts completed in 2011 indicate only one exceedance for DRO. The sample is located north of the site, and is immediately beneath the asphalt apron, indicating that the DRO is likely not due to a source at SS015. The 2010 VOC data had confirmed the suspected source/spill area (in the vicinity of the bioreactor) and documented that the TCE/PCE spread laterally as it moved into the subsurface. The majority of the 2011 stepouts show TCE in the 1-2 ppm range in soil. The team agreed that upon review of all soil data, no additional soil source area has been identified.

➤ The team agreed that no stepouts for soil are needed. ADE C requested that the groundwater data be presented on the next Triad call to confirm that nature and extent of contamination at SS015 has been delineated.

UST1428 – Soil data

The 2 USTs at Site 1428 were previously removed. Stepouts were completed in 2011 based on the sampling done in 2010. Nature and extent delineation was achieved at the western tank. GP008 at the eastern tank has DRO in soil (526 ppb) at 10 feet. No additional soil stepouts were proposed.

➤ Decision on hold until groundwater data is presented on future Triad call

OAP – Triangle Results

The soil results from samples taken along the OAP within the Triangle were discussed. The team agreed that the majority of the locations and associated data would be incorporated into existing sites going forward. These include:

- GP009 and GP010 – to be included in ST005
- GP013, GP014, and GP015 – to be included in SS014/017/021
- GP022 – to be included with CG001/CG002

A stepout for soil near location GP018 (adjacent to SS005) was proposed to further delineate the DRO, GRO, and xylenes that exceed screening levels at 5' bgs, and to verify that the contamination is related to a potential pipeline release.

➤ The team agreed to stepout to the north and west of GP018. Stepouts will be 25' from location GP018 and within 5-10' of the pipeline.

ST020 – Soil

The soil results from the initial samples at ST020 indicate that the contamination has been delineated vertically for the site. One stepout was proposed for soil to laterally delineate DRO to the east of GP006. Groundwater results are not yet available. ADEC requested that the AF

double check historical drawings to determine the location of the pipeline that led from the building to the former UST. An additional stepout was discussed to the south of GP002 and GP006 to bound the contamination to the south.

- The team agreed to 2 stepouts for soil. The AF will double check figures for the former pipeline location and determine if additional stepouts are needed (*completed – the pipeline location has been confirmed and sample GP001 is located adjacent to the pipeline – additional stepouts are not proposed*).

Stepout SS016

All soil data was presented. CH2M HILL proposed 1 stepout to the east of GP018 to delineate DRO. ADEC requested that the groundwater data for SS016 be presented on a future triad call.

- The team agreed to one soil stepout location.

Monitoring Wells at MGH and SS006

CH2M HILL requested approval for the 2 remaining well clusters (CG001-MW004/MW005, SS006-MW065/MW066) proposed in the 2011 Groundwater Contaminant Characterization and Monitoring Study FSP that have not yet been installed. The justification for these 2 clusters is included in the Groundwater Contaminant Characterization and Monitoring Study FSP. The plan is to rename cluster SS006-MW065/MW066 to be associated with UST1859, as the cluster will serve as the downgradient monitoring well location for UST1859 (to be named UST1859-MW001/MW002), which has an isolated groundwater plume. The need for a well upgradient of UST1859 was also discussed and agreed to.

- ADEC approved the proposed installation of wells CG001-MW004 (screen interval 60 – 70 ft bgs), CG001-MW005 (screen interval 80 – 90 ft bgs), UST1859-MW001 (screen interval 15 – 35 ft bgs), and UST1859-MW002 (screen interval 45 – 55 ft bgs). ADEC also approved the installation of well UST1859-MW003 (screen interval 15 – 35 ft bgs) - upgradient of site UST1859. The team discussed the appropriate interval for screening at these locations and the depth of the screened intervals at each well (as presented in the Groundwater Contaminant Characterization and Monitoring Study FSP). These Triad minutes serve as ADEC's approval to install these 5 wells.

Additional Work Needed and/or Concurrence that Work Plan Objectives Have Been Met

Open Discussion for Other Items

Use of the closed piston sampler on DPT borings

During the ADEC visit to Galena on September 21 and 22, 2011, ADEC observed DPT drilling activities. Fred requested that CH2M HILL double check the current methods being used and be sure they are in accordance with the SOP. Win explained that numerous methods are included in the SOP to be sure all types of sampling that may be needed onsite are included. Fred requested that the team review the SOP and the methods being used in the field and confirm that the correct method is being used. (Note: additional information on this topic to follow in the response to ADEC's September 29, 2011 letter on the site visit).

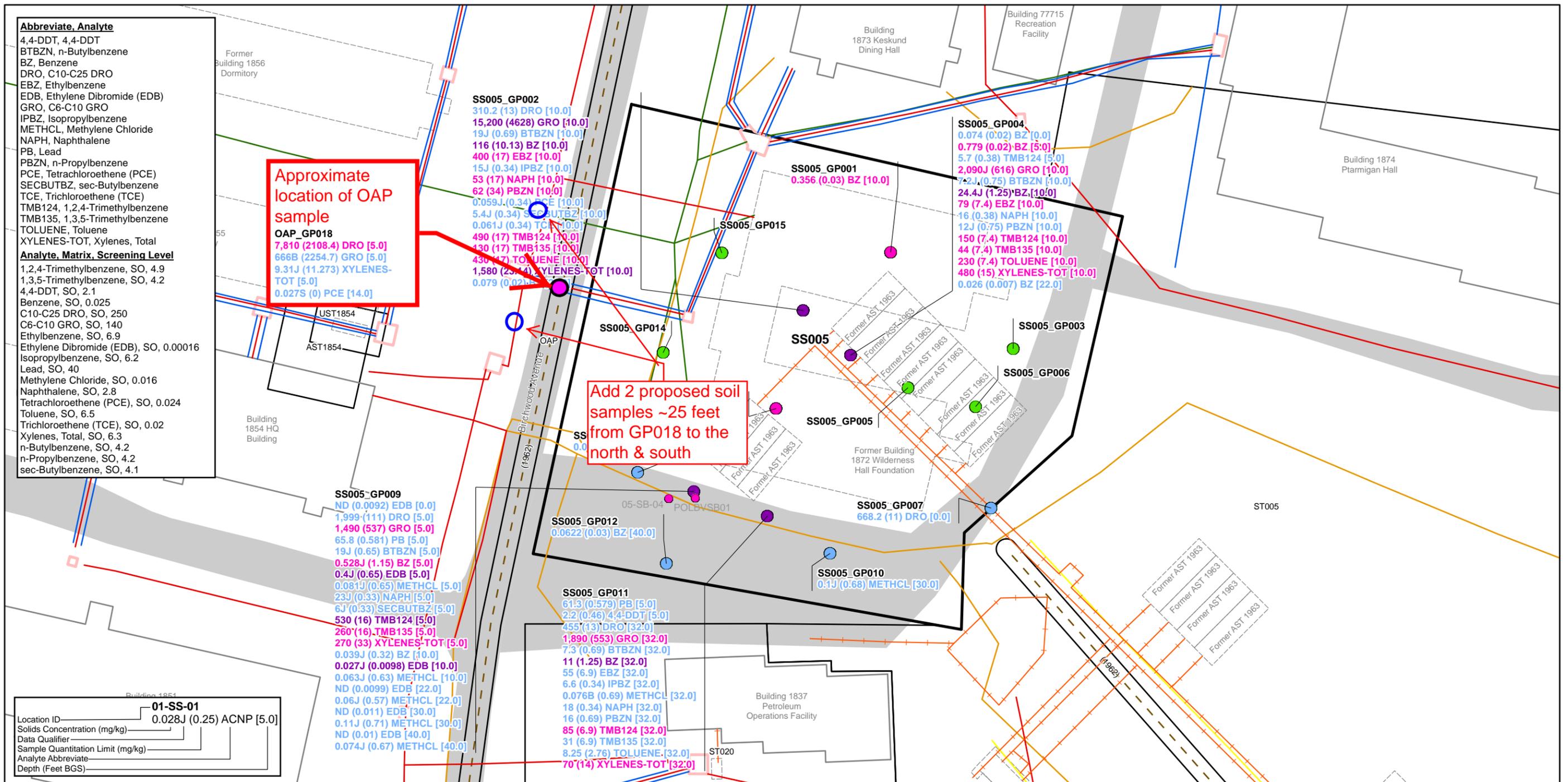
Fred requested a copy of the complete SOP-09 – Monitoring Well Development. Fred only has the portion that contains the checklist. CH2M HILL will send the complete SOP.

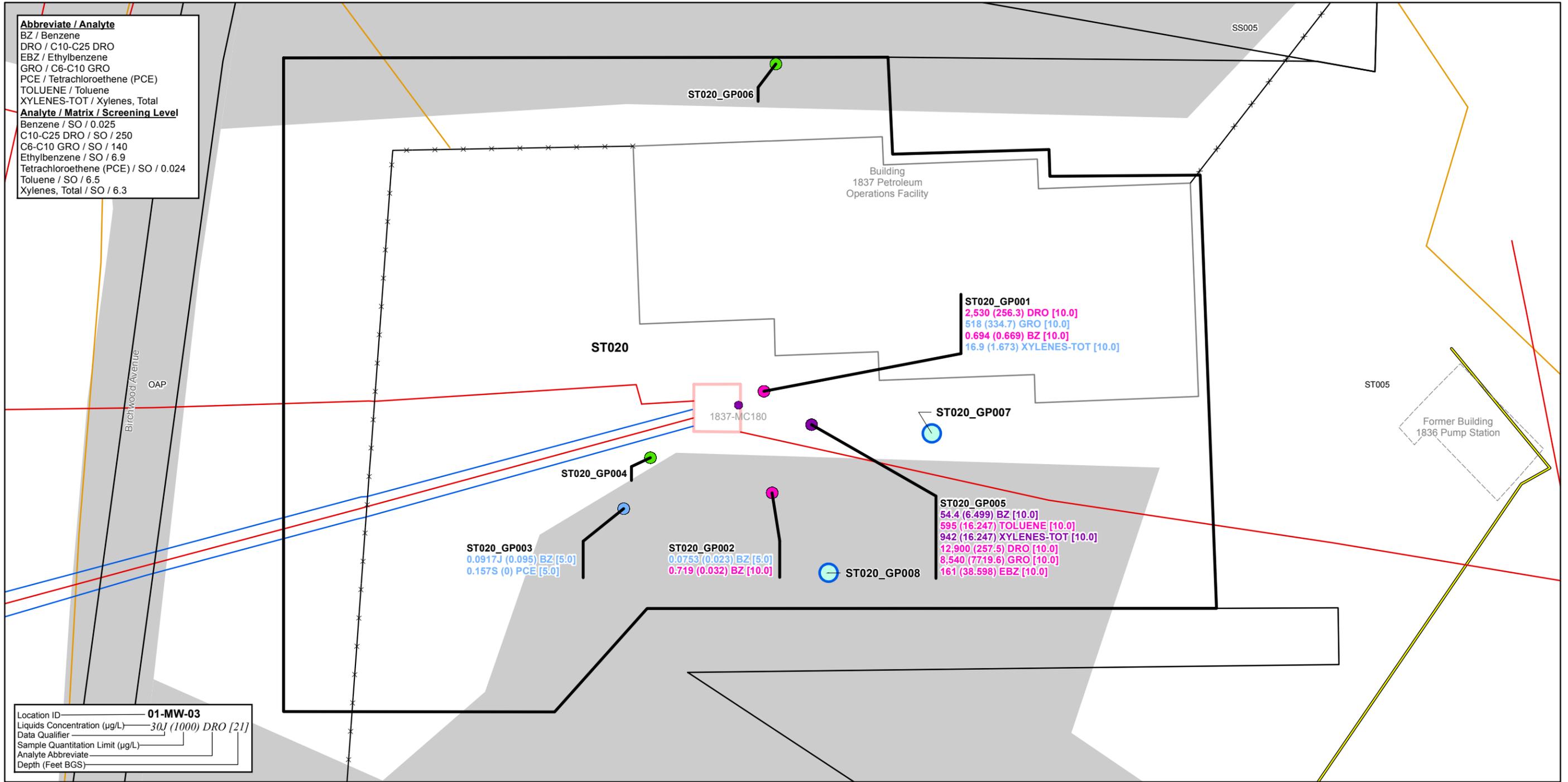
Schedule Update for Upcoming Activities

The team confirmed that there should be a RAB meeting this fall (week of November 14th, 2011). Discussion topics will focus on the 2011 IRA excavations, a synopsis of the total boring, sample, and installed monitoring well numbers in 2010 and 2011 (with photos), the reporting schedule, and the plan for next summer. A TPT meeting will not be necessary since we will not have the complete data set back.

The next Triad meeting is scheduled for Tuesday, October 11, 10:00 a.m. to noon Alaska time.

Attachment: Galena TO 294 Triad Team Contact List



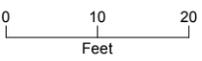
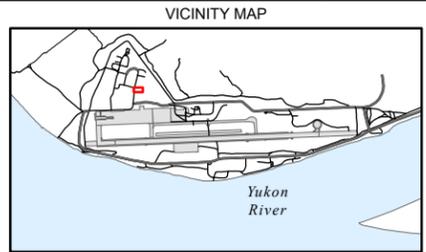


Abbreviate / Analyte	
BZ	/ Benzene
DRO	/ C10-C25 DRO
EBZ	/ Ethylbenzene
GRO	/ C6-C10 GRO
PCE	/ Tetrachloroethene (PCE)
TOLUENE	/ Toluene
XYLENES-TOT	/ Xylenes, Total
Analyte / Matrix / Screening Level	
Benzene	/ SO / 0.025
C10-C25 DRO	/ SO / 250
C6-C10 GRO	/ SO / 140
Ethylbenzene	/ SO / 6.9
Tetrachloroethene (PCE)	/ SO / 0.024
Toluene	/ SO / 6.5
Xylenes, Total	/ SO / 6.3

Location ID	01-MW-03
Liquids Concentration (µg/L)	30J (1000) DRO [21]
Data Qualifier	
Sample Quantitation Limit (µg/L)	
Analyte Abbreviate	
Depth (Feet BGS)	

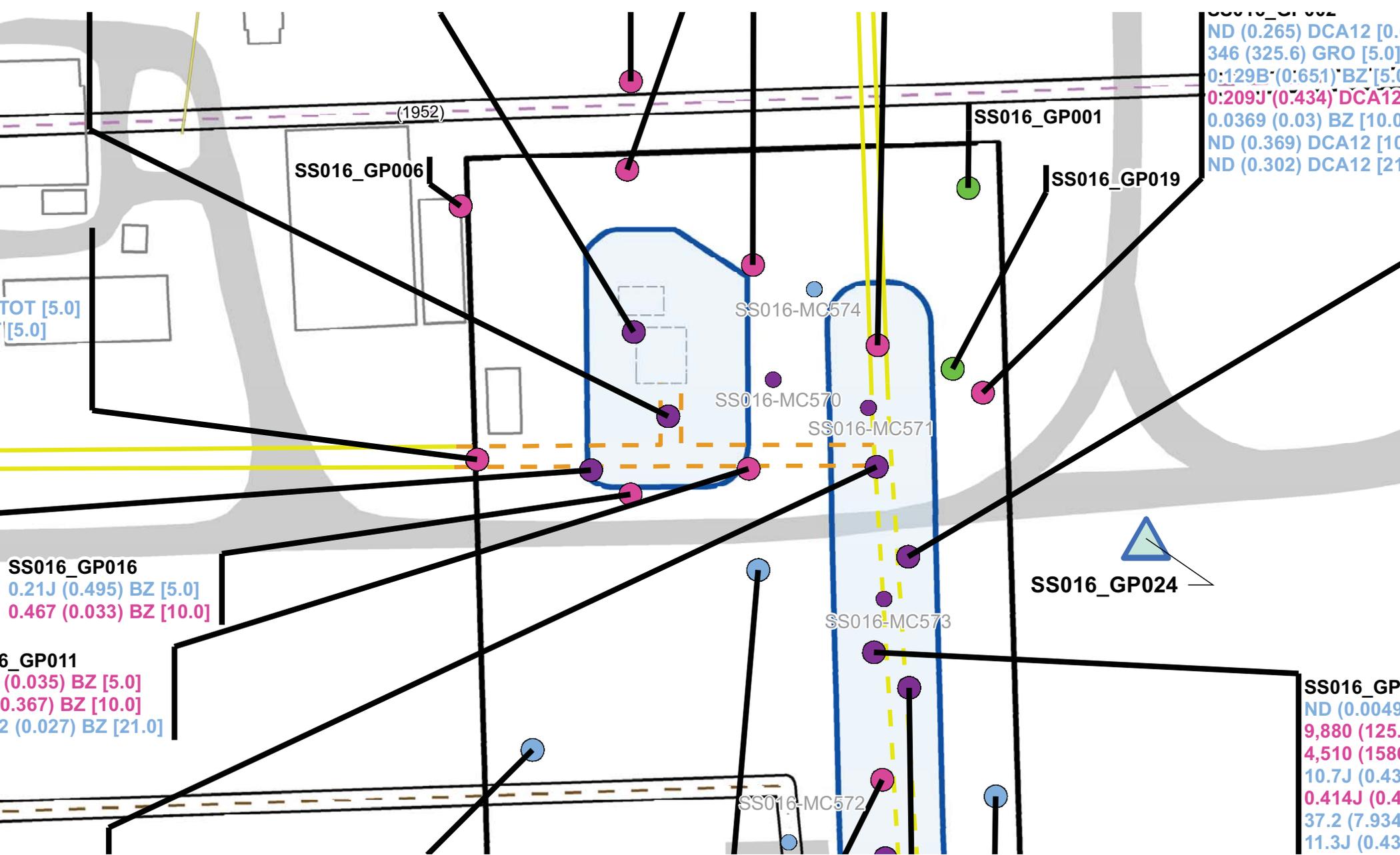
LEGEND

- ST020
- Adjacent Site
- Structure
- Approximate Location of Former Feature
- Airfield Surface or Road
- Fence
- Underground Utility Locates - 2010**
- Communications Line
- Electrical Line
- Fuel/Gas Line
- Potable Water Main
- Concrete Pad
- Sample Exceeds Screening Level (Greater than 100X analyte SL)
- Sample Exceeds Screening Level (Greater than 10X analyte SL)
- Sample Exceeds Screening Level (1 to 10X analyte SL)
- Sample Does Not Exceed Screening Level
- Historical Sample Exceeds Screening Level (Greater than 100X analyte SL)
- Proposed Sample Location - Step Out #1**
- Proposed Soil Sample



- Notes:**
- B - The analyte was detected in the associated method and/or calibration blank.
 - J - The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
 - S - The sample results are unvalidated and should be used for screening purposes only.
 - Only exceedances shown, non-detects excluded.
 - Screening levels are presented in units of mg/kg for SO (soil) samples.
 - Purple Label** = Sample Exceeds Screening Level (Greater than 100X analyte SL)
 - Scarlet Label** = Sample Exceeds Screening Level (Greater than 10X analyte SL)
 - Blue Label** = Sample Exceeds Screening Level (1 to 10X analyte SL)
 - SL = Screening Level
 - 2010 utilities shown are underground only.

Site Name: ST020
Investigation Type: SC
Analytes: All Exceedences
Media: Soil
SLs: Soil Extent
Data Range: 2011



SS016_GP002
 ND (0.265) DCA12 [0.
 346 (325.6) GRO [5.0]
 0:129B (0.651) BZ [5.0]
 0:209J (0.434) DCA12
 0.0369 (0.03) BZ [10.0]
 ND (0.369) DCA12 [10.
 ND (0.302) DCA12 [21

SS016_GP006

SS016_GP001

SS016_GP019

TOT [5.0]
 [5.0]

SS016-MC574

SS016-MC570

SS016-MC571

SS016_GP016
 0.21J (0.495) BZ [5.0]
 0.467 (0.033) BZ [10.0]

SS016_GP024

6_GP011
 (0.035) BZ [5.0]
 0.367 BZ [10.0]
 2 (0.027) BZ [21.0]

SS016-MC573

SS016_GP
 ND (0.0049
 9,880 (125.
 4,510 (158
 10.7J (0.43
 0.414J (0.4
 37.2 (7.934
 11.3J (0.43

SS016-MC572

SS016 -
 Stepouts