**To:** KHanson@ldftribe.com[KHanson@ldftribe.com]
**From:** Egan, Robert
**Sent:** Thur 5/5/2016 1:26:43 PM
**Subject:** RE: Technical Meeting/ Task Order

Hi Kristen,

Please let me know if you are available today to talk about the task order. I need to send something to HQ this week. We will be able to make some changes to it later if needed, although it's best to have it complete the first time if possible. I want to get Bristol working on a cost estimate, and I will be out of the office some of each of the next 3 weeks due to travel.

As of now, I plan to include the 2 new wells, sampling the wells, overseeing PECFA work, and the MIP/alternative technique work to determine plume geometry. Because we need the 2 wells soonest and scheduling the specialized activity like MIP may delay field work, I am assuming that Bristol would mobilize twice for drilling.

Thank you.

Bob Egan

Corrective Action Manager

Underground Storage Tanks Section

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**From:** Hanson, Kristen [mailto:KHanson@ldftribe.com]
**Sent:** Tuesday, May 03, 2016 2:26 PM
**To:** Egan, Robert <egan.robert@epa.gov>

**Cc:** Dee.allen@ldftribe.com; Kamke, Sherry <Kamke.Sherry@epa.gov>
**Subject:** Technical Meeting/ Task Order

Bob,

I'd like to schedule a technical call with the Tribe and EPA for a chance to update each other and plan future work. It sounded like more than one task order or overlapping task orders are a possibility, that could solve some of the problems you describe with this task order. Let's schedule a call.

**Draft Task Order:**

The original task order captured much of what was talked about as possible in the near future at the Bristol/Tribe/EPA meeting. Is the Task order fundable if we exclude the PECFA oversight, and include this in future task orders? There is no planned PECFA field work to our knowledge except for possible conductivity testing. This has been on ongoing negotiation with the contractor for months and still no SOW has been submitted by the contractor.

**The Task Order as presented without PECFA oversight.**

1) 2 Wells- Please Keep

2) Characterization Tools- for CSM, Source Area Interim Action Planning, Well Placement

3) Results and Recommendations-

**Future Task Orders:**

1) Compile Previous Work and Complete a Site Investigation Workplan for the Site (Include this with #3 above?)

2) Cooperative Source Area Interim Action Work- have dig/truck/backfill money -source area delineation (almost complete-should be done in #2 above), need source removal planning, possible excavation oversight, and landfill disposal fees.

3) Implement Site Investigation Workplan

4) Audit State Work

5) Annual Monitoring of Site Wells

6) Site Investigation Report

7) Corrective Action Plan

Kristen

**From:** Egan, Robert [mailto:egan.robert@epa.gov]
**Sent:** Friday, April 22, 2016 10:20 AM
**To:** Hanson, Kristen
**Cc:** Allen, Dee; Wawronowicz, Larry; Kamke, Sherry
**Subject:** RE: new task order cost

Hi Kristen,

I have about $50K left to use until we get more money from HQ. The well costs for 2 would be 2-3 days of drilling at about $2000 per day for the rig and labor, and some extra for materials. Mobilization costs another $1000-1500.

BERS time, of course, adds quite a bit of cost but we would only need one field person to oversee drilling, development and sampling.

So we can do the well installation and sampling without a problem. The time to oversee REI

work would take a lot of hours, plus travel and per diem, and a separate mobilization. I had planned about 14 days of field time since I do not know how many wells they will put in, if any, in the near future. But we would need to have BERS on a task order to do the oversight in case it comes up and we want to do it. I would not expect have time to get a separate task order approved and in place to do oversight if we found out that REI was ready to do more field work.

Hope this helps. We are hoping to hear soon from HQ about funding for this year, but we haven't heard a target date for notifying us of the amount.

Bob Egan

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**From:** Hanson, Kristen [mailto:KHanson@ldftribe.com]
**Sent:** Friday, April 22, 2016 10:05 AM
**To:** Egan, Robert <egan.robert@epa.gov>
**Cc:** Dee.allen@ldftribe.com; lwawronowicz@ldftribe.com
**Subject:** RE: new task order cost

Good Morning Bob,

I just left a voice mail.

I am reviewing the Task Order you send, but understand there is some cost problems and it needs to be scaled down or changed. What is the dollar amount target for this TO and what do the wells come in at? I can better provide input into options with a ballpark idea of cost and

available funds.

Kristen

**From:** Egan, Robert [mailto:egan.robert@epa.gov]
**Sent:** Thursday, April 21, 2016 3:27 PM
**To:** Hanson, Kristen
**Cc:** Kamke, Sherry
**Subject:** new task order cost

Hi Kristen,

I should have run my cost estimate first for our next set of work. I know now that there will not be enough money to do everything I put into the draft task order SOW.

I made a call to do a little research on the MIP work and it will cost between $3000-4500 per day, and another "several thousand" to do the post processing on the data to produce the 3D images. I fully expect that will have money to do this when we receive our new allotment of funds, but I can't do it with what we have left from last year.

We should talk about this. I know you want to have BERS ready to observe the REI work if they drill new wells, and we want BERS to install those 2 additional wells and get the samples prior to the USGS work this summer. These things I think we can do. It ties up some money as we wait for REI to do something, but we want to be ready if they do get to the field sometime soon.

Also, in talking to the drilling company I called, the MIP technique is only best suited to total VOC contaminants above 1000 ppb (dissolved), and only works on the lighter compounds. We have that, but it may be less successful for definition around the plume margins. I would like to learn more about the VAS work that was done. Maybe this would also be an option, especially if we could have a field GC running total VOC analysis so we get results quickly. I should have BERS research this as part of the task order and propose the best method to help us plan the well

network. There may be other methods out there too that haven't been considered.

Let me know what you think and what your top priorities are for our available funding in the short term. If we do the 2 wells and audit the state work, those items were in your e-mail list of priorities sent to me on 3/30. The other short-term item was for cross sections, etc., and most of the items from your Short-term #2 were delivered with the tech memo this week. Additional data analysis and recommendations could be added to this task order if there is something specific we want.

Sorry to have to pull back on plans for some of the work for the short term. I thought we might be able to fund it all for this nest task order but the drilling is pricier than I had considered.

Bob Egan

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