

Wickham, Jerry, Env. Health

From: Bob Clark-Riddell <briddell@pangeaenv.com>
Sent: Wednesday, November 11, 2015 3:33 PM
To: Wickham, Jerry, Env. Health
Subject: FW: 1230 14th Street Excavation - Urgent Well Destruction
Attachments: PHIS%20Characterization%20%20Reuse%20Guidance-Oct06.pdf; Fig 2 Proposed Excavation Area.pdf

Importance: High

Hello Jerry,

This email follows my voicemail message to you today about the subject site. During today's commencement of the approved soil excavation, we encountered heavy odor and green-stained soil about 8-10 ft depth. We have performed exploratory trenches in each direction to characterize the extent of most significant contamination. Here are some urgent questions.

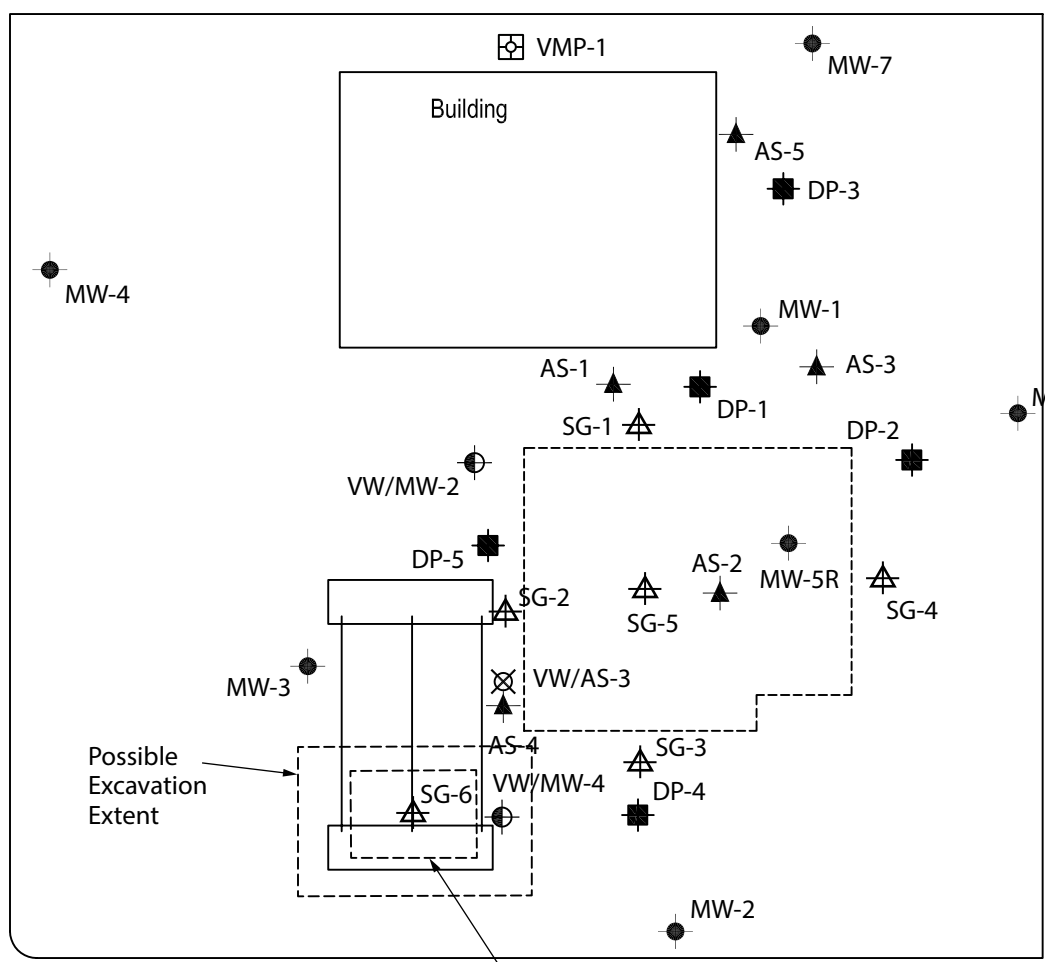
1. **Well Destruction** – Due to apparent significant impact extending to the south, we recommend destroying well VW/MW-4 ASAP (this Friday if possible). This well is 20' deep with a 2" casing diameter. During destruction of well VW/MW-4, it makes sense to destroy additional wells at the same time for cost control. Pangea seeks your permission to destroy well VW/MW-4 by pressure grouting, and also wells located further from the excavation activities in progress (such as wells AS-5, DP-3, MW-1, AS-3, DPE-2). The remainder of the site wells, including key perimeter wells MW-6 and MW-7) can be destroyed at a later date after agency noticed of intent to close. Upon your concurrence we would expedite permitting and destruction. Is this acceptable?
2. **Overburden Soil Reuse** - The shallow overburden soil (about 2-5' depth) appears very clean. We'd like to reuse this soil about 3-6' depth at the site. Consistent with the attached PHIS guidance, we would analyze one sample for every 25 cy of reuse. We expect to reuse about 30-50 cy and analyze two samples for TPHg, TPHd, BTEX, naphthalene for comparison to Tier I ESLs. Is this acceptable?

Please contact me with any questions.

Bob Clark-Riddell, P.E.
Pangea Environmental Services, Inc.
510.435.8664 direct



UNION STREET



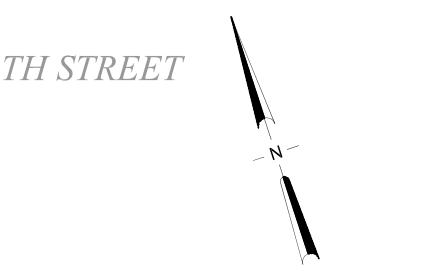
EXPLANATION

- SG-5 Soil gas probe/Soil Boring (2014)
- DP-1 Dual phase extraction (DPE) well
- AS-1 Air sparge well (AS)
- VMP-1 Vapor monitoring point
- MW-1 Groundwater monitoring well
- VW/MW-4 Combination soil vapor extraction well/monitoring well
- VW/AS-3 Destroyed Well



Estimated groundwater flow direction

14TH STREET



Scale (ft)

Figure

2

Former Shell Service Station

1230 14th Street
Oakland, California



Proposed Excavation Area