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DTSC STATUS REPORT UPDATE

South Richmond Shoreline Sites
February 14, 2008
(Final - Revised)

The purpose of this update is to inform the community of activities that have occurred since January 10, 2008 and activities that are expected to occur in the next 30 days at the South Richmond Shoreline Sites.

Zeneca/Former Stauffer Chemical Site

Activities Completed:

- Maintenance activities were conducted in East Stege Marsh.
- DTSC provided comments to the pore water sampling report. Pore water, which is the water in the marsh sediments was sampled in East Stege Marsh.
- DTSC is reviewing the report discussing the results of the Groundwater Pilot Study that was submitted. The groundwater pilot study was conducted to test and compare different methods to treat contaminated groundwater.
- The Responsible Parties completed the investigation of the magnetic anomaly found at the southern end of South 49th Street and in the northwestern portion of the site. A previous survey revealed that there were metal objects buried at the southern end of South 49th Street. A small area in the northwestern portion of the site was also investigated based on information provided by a former Stauffer Chemical employee. It is anticipated that the report describing the investigation will be submitted the week of February 18th.
- The site Gamma Survey was completed. The purpose of the gamma survey is to evaluate whether any surface or shallow anomalies that could be associated with radionuclides exist at the site. It is anticipated that the report describing the survey will be submitted the week of February 18th.
- Quarterly groundwater monitoring was conducted the week of February 4, 2008. Permanent wells located at the site are sampled once every three months to monitor the groundwater conditions.
- DTSC provided comments on the revised Lot 3 Remedial Investigation Report (RI Report). The RI Report describes the investigation and results of the investigation that was conducted on Lot 3 of the site.
- DTSC provided comments to the draft Human Health Risk Assessment (HHRA). The purpose of the HHRA is to evaluate the risk posed by the site based on the data collected from the site and included in the remedial investigation reports.

- The 2007 Fourth Quarter and Annual Groundwater Monitoring Report was submitted by the Responsible Parties. The report contains the results of the groundwater monitoring that was conducted in November 2007 and evaluates the quarterly groundwater monitoring data collected in 2007. DTSC will be reviewing the report.
- DTSC and the Responsible Parties met with the U.S. Environmental Protection Agency's Waste Management Division (US EPA) in December 2007 to discuss federal requirements and the approach for assessing polychlorinated biphenyls (PCBs) found on Lots 2 and 3 of the site. The PCB information was collected during the site investigation phase, which was included and discussed in the Remedial Investigation Reports. The federal statute, known as the Toxic Substances Control Act (TSCA) is enforced by the US EPA and has not been delegated to DTSC or any other state agency; therefore, US EPA must review and approve the approach used. As a result of the meeting and a subsequent discussion, the Responsible Parties will submit an application letter to US EPA that an evaluation of the PCBs will be conducted under 40 Code of Federal Regulations Section 761.61(c).

Activities Proposed for the Next 30-days:

- Sampling at the Southeast Parcel was previously delayed due to weather conditions; however, the work is anticipated to be completed by February 15, 2008. The sampling was required by DTSC to investigate the Southeast Parcel.
- On-going maintenance activities will be occurring in East Stege Marsh.
- A workplan to collect additional soil samples from the existing stockpiles on Lot 2 will be submitted. The additional sampling is needed to determine future use of the soil. A proposed plan to re-grade areas of Lot 2 will be submitted to DTSC for review and approval after the results of the soil sampling is evaluated. The re-grading is needed due to flooding that occurs on Lot 2 during the rainy season.
- It is anticipated that the Radiological Historical Site Assessment will be submitted to DTSC for review the third week of February. The report submittal has been delayed in order to incorporate additional information/data that was recently collected at the site. The purpose of the assessment is to identify prior uses of radioactive materials and where these uses may have occurred.
- It is anticipated that the report providing the radiological results of the groundwater sampling will be submitted the week of February 18th.
- DTSC is continuing to review the public comments received for the Lot 1 PCB/VOC Area Removal Action Workplan and is preparing a response to those comments. Approval of the Removal Action Workplan is anticipated within the next 30-days.

Harbor Front Site (businesses to the east of Zeneca Site)

Activities Proposed for the Next 30-days:

- DTSC's consultant, Weiss Associates is revising the Technical Memorandum containing the results of the August 2007 groundwater monitoring conducted at the Site.
- Weiss Associates provided a revised sampling workplan to investigate the Former Pacific Hard Chrome Site located at 1305 South 51st Street. The property owner's representatives are currently reviewing the document.

UC Richmond Field Station

- DTSC is reviewing the University of California's responses to DTSC's comments to the Current Conditions Report for the site. The report describes current and historical uses of the property, a summary of previous site investigation and remediation activities, a conceptual site model, and identifies data gaps.
- The University of California implemented the Time Critical Removal Action (TCRA) Memorandum on October 1, 2007, and completed excavation activities on October 15, 2007. All confirmation samples were found to be below the cleanup goal of 16 parts per million for arsenic. Backfilling of the excavated area was conducted during the week of January 14, 2008. A report documenting the work that was done will be submitted within the next 30 days. The TCRA addresses elevated concentrations of arsenic found in soil at the former Forest Projects Laboratory Wood Treatment Laboratory. Prior to the removal action, the arsenic was found in surface soils (0 to 6 inches) up to 1,300 milligrams per kilogram (mg/kg) and up to 650 mg/kg between 12 to 30 inches below the ground surface.
- Shallow surface soil sampling (the top 6 inches) of soil from the Western Transition Area (areas upland of the West Stege Marsh) was conducted in January. The soil data will be reviewed and compared to screening levels protective of future site workers. These workers will be removing invasive and noxious weeds in this area. It is anticipated that the results of the investigation will be submitted within the next 30 days.
- Planting of native marsh plants is currently being conducted. The planting will occur in areas that have previously been remediated.
- Upon obtaining a permit from the University of California Campus Deputy Fire Marshall, restoration workers began weed abatement blanching. It is anticipated that the weed abatement will be occurring intermittently for the next three months in the ecotone and transitional areas (areas previously remediated), depending on appropriate weather conditions.

Bio-Rad Laboratories

- The six month groundwater pilot study concluded in December 2007. A report discussing the results of the groundwater pilot study was submitted on February 1, 2008.
- The Fourth Quarter 2007 Groundwater Monitoring Report was submitted and DTSC will be reviewing the report.

Marina Bay Area –

West Shores Area – No work in this area occurred in January 2008. A report documenting the November 2007 soil removal is anticipated to be submitted in February 2008.

Marina Bay Area T – At the end of January 2008 all site wells were checked for free floating petroleum. DTSC has received a Draft Amendment to the existing Remedial Action Plan (Draft RAP Amendment), which proposes to remove the free floating petroleum and continue monitoring the existing groundwater wells. DTSC is reviewing this request. The Draft RAP Amendment would be released for public comment once DTSC has completed its review.

In response to the CAG's question regarding the potential for ethyl benzene to be in groundwater, DTSC reviewed the available information on Area T. Groundwater sampling conducted in 1987 and 1988 (as identified in Tables 8 & 9 of the 1993 Remedial Action Plan) indicated the all volatile organic compounds (VOCs) including ethyl benzene were non-detect in the groundwater. As noted previously, the ethyl benzene concentration in the soil was 120 micrograms per kilogram (or parts per billion). This is a low level which is below screening levels commonly used by DTSC and the United States Environmental Protection Agency.

Operation and Maintenance Agreement – The Operation and Maintenance Agreement is on hold pending completion of the Five Year Review of all of the deed restricted parcels except Areas FM and T. The areas covered by the existing Operation and Maintenance Agreement consist of roadways and parks where contamination was consolidated and capped in place. Five separate Five-Year Review Workplans were received and are being reviewed by DTSC.

Harbour Way South – Former Richmond Plating Site, 738 Harbour Way South – DTSC has completed its review of the sample results from the sampling conducted in June 2007. Elevated levels of thallium, cadmium, lead, arsenic, tetrachloroethylene (PCE)

and trichloroethylene (TCE) were found in soils. The site is currently deed restricted to commercial/industrial uses. DTSC has begun drafting an amendment to the existing Remedial Action Plan to allow for excavation of the contaminated soils and placement of Hydrogen Releasing Compound in the groundwater to help break down the remaining TCE and PCE. The Draft RAP Amendment will be released for public comment once DTSC has finalized the draft document.

Liquid Gold - Sampling of six shallow groundwater monitoring wells, in and around the capped and deed-restricted area on the Liquid Gold Site, was conducted at the end of January 2008. Groundwater sampling is currently being conducted every two years as part of the ongoing monitoring program. The Liquid Gold Biannual Groundwater Monitoring Report, which will contain the results of the sampling, is anticipated to be submitted to DTSC by March 14, 2008.

A work notice that covers three months of work was sent out to the community for the Liquid Gold Site (which also includes Stege Pistol Range and Blair Landfill) on January 17, 2008. A community survey, which will begin the process of updating the Public Participation Plan that was previously completed in 1988, was also included in the same envelope with the work notices. DTSC requested that the surveys be returned by February 1, 2008.

Stege Property Pistol Range – Additional soil sampling is scheduled to be conducted February 18 and 19, 2008. The purpose of the soil sampling is to better determine the extent and volume of lead-impacted soil in the backstop berm of the pistol range. This sampling will be conducted in accordance with the *Pistol Range Backstop Berm Expanded Investigation Workplan* approved by DTSC. Twelve potholes are to be excavated and sampled in or adjacent to the backstop berm where most of the lead-impacted soil has been found. The data will be used to finalize the Draft Removal Action Workplan which is anticipated to be released for public comment in the late spring of 2008. Previous soil and groundwater sampling at the Pistol Range included analysis of some of the samples for 17 different metals, total petroleum hydrocarbons as diesel, and volatile organic compounds (VOCs). There were only limited detections of metals other than lead above residential screening levels within the area of the Pistol Range. The results of the previous Pistol Range investigations are presented in the September 16, 2005 Site Assessment Report that is available on DTSC's EnviroStor database with Liquid Gold Site documents. Levels of arsenic above naturally-occurring background concentrations were found at depths greater than seven feet in three borings along the exterior side of the backstop berm. This occurrence of arsenic will be further investigated and addressed separately from the lead-impacted soil at the Pistol Range, which will be addressed in the upcoming Draft Removal Action Workplan.

Blair Landfill – DTSC approved the revised Soil Gas Investigation Workplan submitted by Union Pacific Railroad Company. Soil gas (or soil vapor) is air existing in void spaces in the soil between the groundwater and the ground surface. A soil-gas survey involves collecting and analyzing soil-gas samples to determine the presence of chemicals and to help map the spread of contaminants within soil. The soil gas investigation was completed during the week of February 11, 2008. It is anticipated that a report containing the findings of the investigation will be submitted to DTSC by the end of March 2008. As stated above, a work notice describing the investigation was sent out to the community.