

Results of Soil and Dust Sampling at Village Park

Paramount Air Quality Subcommittee
Meeting
Progress Park Plaza

July 27, 2017

Soil and Dust Sampling Work Plan


- Tetra Tech/City staff met with DTSC to plan sampling activities.
- A Work Plan was prepared to meet DTSC requirements to match previous assessments. Split samples were collected for DTSC.
- Samples were to be analyzed for Title 22 Metals (also called CAM 17 Metals).
- Samples were to be analyzed for chromium VI, manganese, tin, and titanium, used in nearby metal facilities.
- DTSC reviewed and approved the Work Plan.

Sample Locations

Legend

 Project Boundary

Sample Type

 Surface Soil Sample

 Dust Sample



Soil and Dust Sampling

- Sampling was done on March 2, 2017
- Field work was observed by DTSC.
- Soil samples were collected from surface and from 1 to 3 inches below ground at eight locations.
- Five dust samples were collected from sidewalks, the basketball court, and the skateboard park.



Summary

- Metals were compared to EPA Regional Screening Levels (RSLs) and background levels.
- Vanadium detected above background level in two soil samples but were below the EPA RSL.
- Six metals detected above background levels in dust samples but were below their respective EPA RSLs.
- Cobalt detected in one dust sample above the EPA RSL but the duplicate dust sample was below the EPA RSL.
- Chromium VI detected in nine soil and four dust samples.
- All Chromium VI levels were well below the EPA RSL.

Conclusions

- Recommended no further investigation of metals in soil and dust at park based on the sample results.
- DTSC approved this recommendation based on their review of Tetra Tech's report.
- Metals found in soils and dust at the park are not a significant contributor to human health risk.
- Inhalation of Chromium VI air emissions is most significant health concern and not direct contact with and/or ingestion of soil.