



HAND DELIVERED
1/29/2011

January 25, 2011
File No.: 116081-4.1

Mr. Todd Del Frate
CVRWQCB-Sacramento
11020 Sun Center Drive #200
Rancho Cordova, CA 95670

**Re: Dellar Landfill
Sacramento, CA**

Dear Mr. Del Frate:

Attached is a field investigation outline for your review in preparation for our meeting on Thursday, January 27, 2011. The outline should give you an idea of what we are thinking relative to field work and should be a good starting point for our meeting. Please contact me if you have any questions or require additional information.

Sincerely,

KLEINFELDER WEST, INC.

Timothy Crandall, P.E.
Principal Engineer

**Closure Field Investigation Outline
Dellar Landfill
APNs 001-016-0013 and 0039
Sacramento, California
January 25, 2011**

1. Background

Dellar Landfill is located adjacent to the American River, north of B Street and between lines projected from 23rd and 25th Streets. The property containing the landfill covers approximately 29 acres. The landfill accepted waste between 1959 and 1963 and has not undergone a formal closure. The Regional Water Quality Control Board (RWQCB) has requested the site undergo a formal closure. Attempts have been made to close the landfill to the satisfaction of the RWQCB, the most recent being a closure plan and design offered by the City of Sacramento. At a meeting on January 6, 2011, with the RWQCB, representatives of the owners (Dellar Trust) of the Dellar property proposed a plan that could achieve closure by the end of 2011. The RWQCB expressed some concerns regarding the plan, asking for additional information to support the proposed plan. This Closure Field Investigation Outline was prepared as a scoping document that would be used as a starting point in discussions between the Dellar Trust and RWQCB staff regarding additional field investigation.

2. Objectives of the Closure Field Investigation

- Provide information on the existing soil cover within the driplines of the Elderberry plants within the footprint of the landfill. The investigation should provide information on the thickness, soil type, debris content, and chemical nature of the existing cover soil.
- Provide information on the existing soil cover across the landfill surface. This information should include soil cover thickness, soil type and debris content.
- Provide information on the waste (type and estimated amount) that would be excavated during construction of two stormwater detention basins.

3. Field Activities

Elderberry Plant Dripline Assessment

1. Advance nine (9) small holes to a depth of 2 feet using a shovel at Elderberry plant locations EB-1 through EB-9 (see Plate 1 for map of plant locations).
2. Prior to advancing each hole, carefully remove vegetation and/or debris from the surface by scraping with a clean, decontaminated shovel or hoe.
3. Record each location with a GPS unit.
4. A geologist will log the soils encountered and record debris (non-soil items).
5. Photograph and sketch each hole showing scale and orientation and approximate placement of debris (if encountered).

6. Collect examples of debris and put in plastic bag. Mark bag with location.

7. Soil Sampling

a. Collect one soil sample at each location using the following method:

- i. Dig hole to 2 feet below ground surface (bgs) and stockpile soil on the ground near hole for backfilling.
- ii. If clean soil (devoid of staining and/or odor) is encountered, collect sample by using the stainless steel hand trowel to scoop some soil from each side (4 sides) of the trench, from the sidewall at approximately 1 foot bgs. Scoop soil directly into a new plastic baggie. Mix soil thoroughly by kneading in baggie. Pour soil into two 8-oz clean jars provided by the analytical laboratory. Completely fill both jars.
- iii. If staining and/or odor are encountered, collect the suspect soil instead of sidewall soil at 1 foot by scooping with the trowel directly into the baggie. Follow same mixing procedure as in section u, above, and place into two 8-oz jars.
- iv. Label jars with a unique identifier that includes the date, Elderberry Bush ID name and depth of sample (example: EB-1-1 for Elderberry Bush EB-1 at 1 foot bgs). Two jars equal one sample; name both jars with the same identifier.
- v. Place labeled jars into a cooler with ice pending transport to the analytical laboratory.
- vi. Backfill hole with soil from stockpile (after logging by geologist).

8. Soil Sample Analysis

The nine soil samples will be initially analyzed for the following constituents:

- CAM-17 Metals by EPA 6000/7000
- Organochlorine Pesticides by EPA 8081A
- Semi-volatile organic chemicals by EPA 8270
- Total recoverable hydrocarbons (TPH extractable and purgeable by EPA 8015M)
- Polychlorinated-Biphenyls by EPA 8082
- Dioxins/furans (2,3,7,8-TCDD) by EPA 8280

Following receipt and review of the initial analytical results, the three samples with the highest concentrations of lead will be analyzed for the following constituents:

- Soluble cadmium, chromium III, chromium VI, nickel, lead and zinc using the WET and DI-WET extraction methods.

Detention Basin Assessment

1. Drill one boring in center of each proposed basin to design grade minus 5 feet to assess for presence of waste (Plate 1).
2. Log cuttings to assess type of waste.
3. If soil/waste interface is found, note depth.
4. Backfill borings with cement grout.

Existing Cap Condition Assessment

1. Excavate 12 backhoe trenches through the existing soil cover to waste at the locations shown on Plate 1.
2. Measure thickness of soil cover, document type and location of debris encountered in existing cover soil.
3. Backfill trenches with excavated materials and wheel roll.

4. Reporting

1. Prepare letter report summarizing results of field investigation.
2. Submit to RWQCB on or before 3/9/11.

Attachments:

Health and Safety Plan
Limitations
Plate 1 – Closure Field Investigation

HEALTH AND SAFETY PLAN
DELLAR TRUST PROPERTIES
APNs 001-016-0013 and 0039
SACRAMENTO, CALIFORNIA

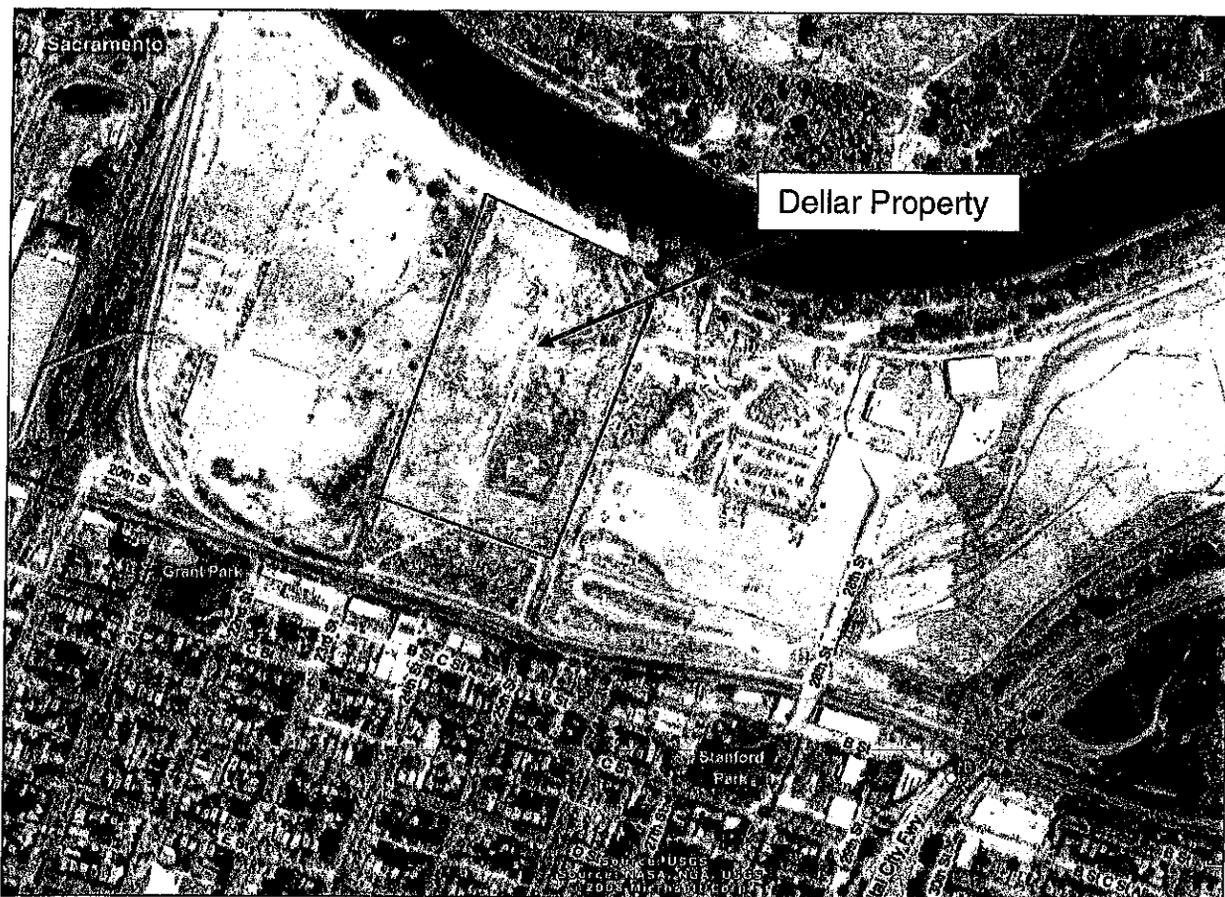
Key Individuals:

Project Manager: Tim Crandall (916) 366-1701

Site Health and Safety: Kalen Bjurstrom (916) 825-3082

Preparer: Sue Gardner, PG (916) 416-4669

Reviewer/Approver: Tim Crandall (916) 366-2359



Hospital/Clinic: Sutter General Hospital

Address: 2801 L Street, Sacramento, CA 95816

Phone No: 916-454-2222

Paramedic 911 Fire Dept. 911 Police Dept: 911

HEALTH AND SAFETY PLAN
DELLAR TRUST PROPERTIES
 APNs 001-016-0013 and 0039
 SACRAMENTO, CALIFORNIA

Emergency/Contingency Plans: Stop work, assess situation, call for assistance, apply first aid, transport person to hospital.

15 Min Eyewash: _____ **Fire Extinguisher:** X **First Aid Kit:** X

Site Control Measures: Warn unauthorized people away from work area.

Unauthorized personal are not allowed around work space.

Personal Decontamination Procedures: Avoid skin, eye and mouth contact with any soil or liquid. Wash hands thoroughly with soap and water before eating/smoking.

CHEMICAL HAZARDS

Anticipated chemical hazards are petroleum hydrocarbons (TPH diesel), lead, and pesticides (DDD, DDE, DDT, Dieldrin, Endrin) in soil.

PHYSICAL HAZARDS

<u>X</u>	Heat (Seasonal)	<u>X</u>	Slip, Trip, Fall	<u>X</u>	Backhoe
<u>X</u>	Cold (Seasonal)	<u>X</u>	Noise	_____	Drill Rig
<u>X</u>	Rain (Seasonal)	<u>X</u>	Fog (Seasonal)	<u>X</u>	Excavations/Trench
<u>X</u>	Overhead Hazards	_____	Underground Hazards		

X **Other:** There is an active radio station located on the site with generator, towers and guy wires anchored into blocks. Do not enter fenced area around radio facility. Also, possible homeless people and associated debris present on site.

**HEALTH AND SAFETY PLAN
DELLAR TRUST PROPERTIES
APNs 001-016-0013 and 0039
SACRAMENTO, CALIFORNIA**

PERSONAL PROTECTIVE EQUIPMENT

R = Required

A = As Needed

<u>A</u>	Hard Hat	<u>A</u>	Safety Eyewear (Type):
<u>R</u>	Safety Boots	<u> </u>	Respirator (Type):
<u>R</u>	Orange Vest	<u> </u>	Respirator Filter Type:
<u>A</u>	Hearing Protection	<u>A,R</u>	Gloves (Type): Neoprene, PVC, Nitrile, Work*

- Chemical resistant gloves (Neoprene, PVC, Nitrile) required for sample collection. Work gloves as-needed for hole excavation and backfilling.

LIMITATIONS

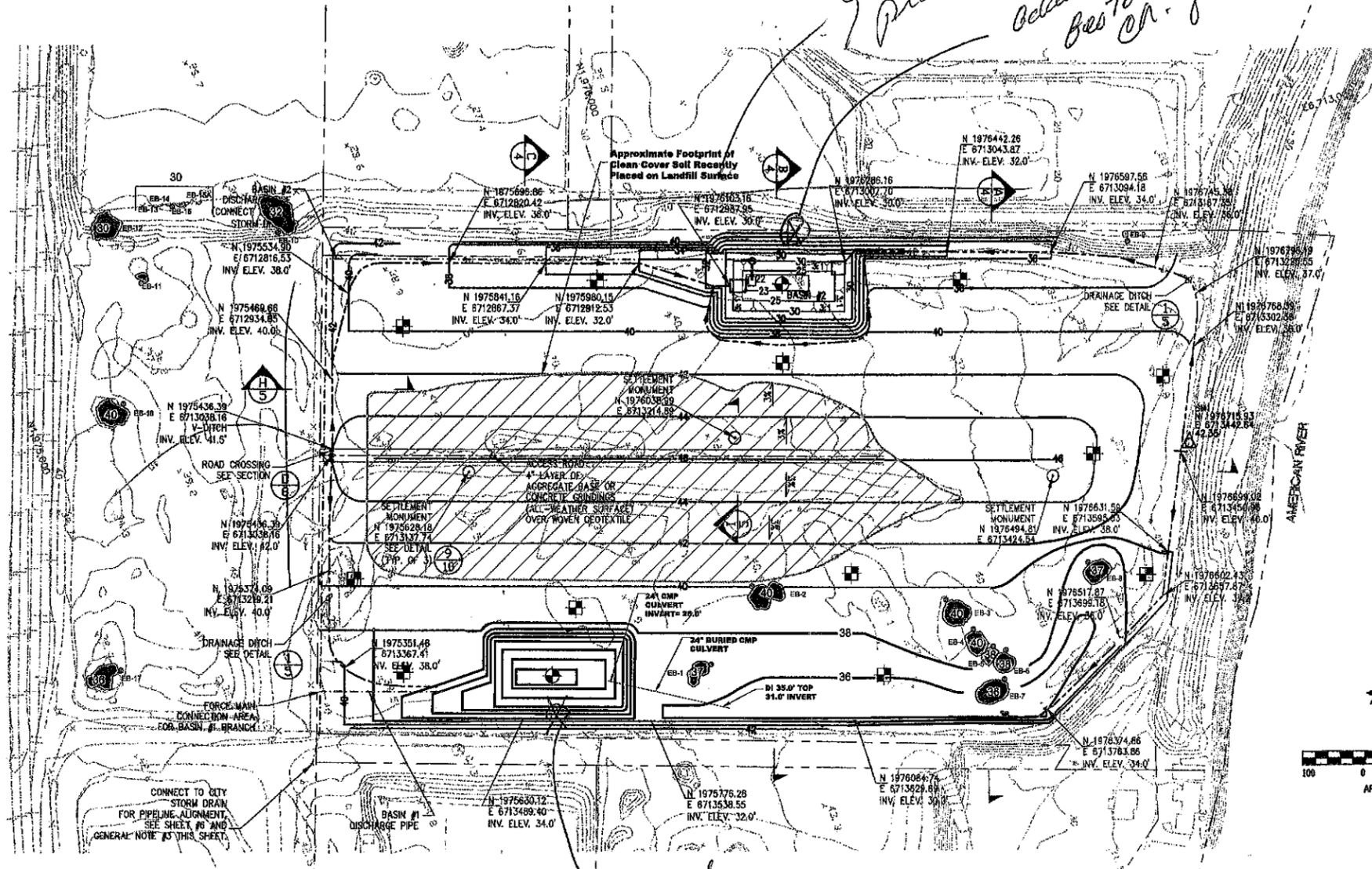
This work was performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. Our conclusions, opinions and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no other representation, guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

This report may be used only by the Client and the registered design professional in responsible charge and only for the purposes stated for this specific engagement within a reasonable time from its issuance, but in no event later than two (2) years from the date of the report.

The work performed was based on project information provided by the Client. If the Client does not retain Kleinfelder to review any plans and specifications, including any revisions or modifications to the plans and specifications, Kleinfelder assumes no responsibility for the suitability of our recommendations. In addition, if there are any changes in the field to the plans and specifications, the Client must obtain written approval from Kleinfelder's engineer that such changes do not affect our recommendations. Failure to do so will vitiate Kleinfelder's recommendations.

PLOTTED: 24 Jan 2011, 1:55pm, Richard Hills

ATTACHED IMAGES: Images: Dellar Property 77754-1_0021.jpg Images: Proposed-Closure.dwg Images: SKMRT_C522100820121210.dwg
DRAWING: INCHES
CAD FILE: H20111116081102am LAYOUT1 Layout1



Gas Ponds

Gas Ponds
Additional Bee Teek Bay for CR. of Native

Bee Teek Bay

GENERAL NOTES

- RADIO TOWER POWER LINE SHALL BE PRESERVED DURING CONSTRUCTION AND RESET AT THE PROPER SEPARATION DISTANCE BETWEEN THE DESIGN GRADE AND BOTTOM OF THE CONDUCTOR, PER FCC REQUIREMENTS. AFTER GRADING IS COMPLETED, ANCHORS/FOOTINGS SHALL REMAIN IN PLACE AND BE PROTECTED FROM SOIL FILL AS DIRECTED BY THE ENGINEER.
- CONTRACTOR MUST COORDINATE WITH RADIO TOWER OWNER PRIOR TO DE-ENERGIZING THE POWER LINE TO RESET THE LINE ELEVATION.
- RADIO TOWER DRAIN PIPE SHALL BE PLACED PRIOR TO COVER OPERATIONS TO REDUCE TRENCHING WORK.
- DISCHARGE FROM BASIN WILL BE CONVEYED TO THE CITY'S STORM DRAIN MANHOLE (MH 809) VIA AN UNDERGROUND PIPE. MANHOLE 809 IS LOCATED AT THE INTERSECTION OF A STREET AND 28TH STREET.

SURVEY NOTE

THE BASE TOPOGRAPHIC MAP USED FOR THIS WORK WAS PROVIDED TO MCOLL-MARTIN-SELF BY HARDING LAWSON ASSOCIATES IN ELECTRONIC FILE MEDIA. THE MAPPING WAS PREPARED BY TOPOGRAPHIC SURVEYS, INC., FOR THE CITY OF SACRAMENTO. DATE OF AERIAL PHOTOGRAPHY WAS JUNE 23, 1995. THE BASIS FOR HORIZONTAL AND VERTICAL CONTROL IS UNKNOWN.

LEGEND

- PROPERTY BOUNDARY
- PROPOSED FINAL GRADES
- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- EXISTING POWER POLE
- EXISTING CONTROL POINT
- EXISTING MONUMENT WELL
- EXISTING TOWER ANCHOR
- EXISTING POLE
- EXISTING FENCE
- V-DITCH AND DRAINAGE DIRECTION
- UNDERGROUND BASIN DISCHARGE PIPE
- PERMANENT SETTLEMENT MONUMENT
- PROPOSED FENCE

SOURCE: Drawing 3, 29-Acre Final Landfill Closure, Dellar Property, Sacramento, CA
Revision 2/28/2010, SCS Engineers



PROJECT NO. 116081
 DRAWN: 01/24/2011
 DRAWN BY: R. Hills
 CHECKED BY: T. Crandall
 FILE NAME: 116081_1.dwg

CLOSURE FIELD INVESTIGATION

DELLAR LANDFILL
SACRAMENTO, CALIFORNIA

PLATE

1