

LIMITED LANDFILL TESTING WORK PLAN

Berry Street Mall Landfill
901 Galleria Boulevard
Roseville, California

Prepared For:

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July 15, 2014



GEOLOGICAL
ANALYTICS

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1.0 INTRODUCTION

This work plan presents a proposed excavation and testing program to characterize the waste for the closed Berry Street Mall Landfill (Landfill), in Roseville, California. These activities are a preliminary step to developing a plan for clean closure of the landfill. The Landfill is owned and operated by A Greener Globe (AGG), a charitable non-profit public benefit corporation.

1.1 Site Location and Description

The Landfill is located at 901 Galleria Boulevard in the City of Roseville, Placer County, California within the northeast quarter of Section 35, Township 11 North, Range 6 East, Mount Diablo Baseline and Meridian. The Placer County Assessors Parcel Number for the Landfill property is 015-100-048. A vicinity map showing the location of the Landfill is presented as Figure 1. The Landfill footprint occupies approximately 11 to 11.5 acres of an approximate 26-acre parcel.

The Landfill, which was formally closed in 1993, is centrally located within the property and is equipped with a final cover system meeting the regulatory prescriptive standard. Pertinent ancillary features with respect to the Landfill include interior and perimeter surface drainage facilities (i.e., down drains, culverts, paved ditches, etc.), a primary sedimentation basin, leachate and standby landfill gas (LFG) collection systems, and asphaltic paved and gravel access roadways. The Landfill footprint and adjoining areas are covered with seasonal grasses. In addition to the aforementioned landfill-related features, a nursery facility is located south and adjacent to the Landfill. The area occupied by the nursery was formerly used as a transfer station and is currently leased to the nursery owner by AGG. A site map showing the general site configuration and features is presented as Figure 2. Adjacent properties surrounding the Landfill are currently used for a variety of different purposes. The area north of the Landfill property is comprised of non-irrigated open space.

Galleria Boulevard borders the site along its eastern property boundary, beyond which lies the closed Roseville Sanitary Landfill (RSL) and two electrical substations. The south-adjacent property is occupied by a commercial development, whereas the property west of the Landfill is currently under development.

1.2 Background Information

The Landfill (formerly known as the "Finger Sanitary Landfill") was operated as a Class III (previously Group II-2) facility from approximately 1946 through 1987. The nature of the waste accepted at the Landfill included classified solid waste and construction

debris. Reportedly, the Landfill received approximately 15 tons of waste per day and a total tonnage of approximately 224,500 tons over its operating life. The disposal of waste in the Landfill was discontinued in November 1987. However, the receipt and processing of waste on-site continued at the transfer station until approximately 1996. As previously noted, the transfer station facility was subsequently converted to a nursery in February 2003.

In May 1992, Final Closure and Post-closure Maintenance Plans were prepared for the Landfill under the California Integrated Waste Management Board's (CIWMB's) Orphan Sites Programs. The respective plans were subsequently approved by the various regulatory agencies, whereupon construction of the final cover system and associated ancillary facilities were implemented between the fall of 1992 and spring of 1993. The final cover system consists of a 4-foot minimum thickness monolithic earthen low permeability layer placed over the top of the entire waste footprint. The ancillary facilities, in turn, included surface water drainage control and sedimentation control improvements, placement of survey/settlement control monuments, installation of leachate and standby LFG collection systems, and the installation of miscellaneous environmental monitoring systems.

As a historical point of reference, the Landfill has gone through several ownerships since the early 1950's. From 1952 through November 1987, the Landfill was owned and operated by Mr. William Finger (hence the former site reference as "Finger Sanitary Landfill"). In November 1987, ownership was transferred to the Estate of William Finger and Berry Street Mall, Inc. Finally, in August 1996, the Landfill property was subsequently acquired by AGG through foreclosure. As previously noted, AGG is the current owner of the Landfill property.

2.0 PROPOSED SCOPE OF WORK

The scope of work discussed in this section is designed to test an area of the southern portion of the closed landfill to characterize the nature of the waste within the landfill and allow the development of a realistic clean closure plan based on the actual nature and volume of the waste materials contained in the landfill.

2.1 Staging and Set Up

It is expected that the staging area (tentatively identified on Figure 2) would be located on the southeastern portion of the landfill site and off of the actual landfill itself. This location is a relatively flat area with some paving that could accommodate the equipment to be used in the landfill characterization test.

Equipment to be utilized in the landfill assessment will include a hydraulic excavator and/or front end loader, a trommel or power screen system for processing the waste and separating the larger material from the finer soils and a water truck for dust suppression during excavation activities. If necessary, one or two dump trucks may be utilized to move the excavated material to the processing area.

2.2 Dust Control

Dust control measures will be implemented to mitigate noticeable air borne particulates from the excavation, stockpiling, loading, and transporting activities. Dust control measures will include, but not be limited to: using a water truck to spray sufficient water as needed to control noticeable dust emissions, covering stockpiles, and covering excavated areas. Clean water will be obtained from a nearby fire hydrant or other potable water source. The excavation contractor will be responsible for obtaining necessary approvals from the City of Roseville to use available fire hydrants, if necessary.

2.3 Erosion Control

The excavation contractor will monitor upcoming weather conditions to avoid excavation activities during inclement weather. All stockpiles will be covered with anchored visqueen each night. Excavations will not be permitted under wet conditions during and following a rain event. It is anticipated that field activities will be conducted in the dry season between August and October.

Erosion will be controlled by maintaining downward grades in the work areas toward the excavated areas. To the extent practical, haul roads will be located above (at higher

elevations) than the excavated areas. The stockpile areas will be situated above the excavations such that drainage water, if any, will return to the excavated areas.

The excavation contractor will include specific erosion control measures in their operation. The erosion control measures will incorporate the above general guidelines and shall be installed and maintained on-Site by the excavation contractor.

2.4 Excavation and Field Assessment

As shown on Figure 2, a portion of the southern landfilled area will be excavated and processed to characterize the waste within that portion of the landfill. A section of approximately 160 feet will be excavated to give a representative assessment of the character of the landfill waste. At this time, it is anticipated that approximately 10,500 cubic yards will be excavated, including the clay from the landfill cap. The clay will be segregated and stockpiled for use during site reclamation and restoration at the completion of the testing. Additionally, approximately 2,800 cubic yards will be excavated to maintain a reasonable 3:1 slope on the landfill following reclamation and restoration activities.

Material excavated from the landfill will be temporarily stockpiled in the staging area shown on Figure 2 for screening and determination whether the material would require further processing. As noted above, all stockpiles will be placed on and covered by plastic sheeting to assist in mitigating erosion and controlling dust during site activities.

Materials removed from the landfill which are determined to be clean and inert will be utilized on-site to level out the parcel at the discretion of the property owner. Any other waste materials will be segregated, stockpiled, documented and disposed off-site at an appropriate facility. Due to the unknown character of the waste, it is uncertain at this time how much material may need to be disposed off-site and what type of disposal facility would be required. A Greener Globe Corporation will consult with representatives of Placer County Environmental Health Department prior to off-site disposal to reach agreement on proper disposal criteria for the material to be disposed off-site, if any.

All waste characterization activities will be properly documented by field notes and photographs. A PID may be utilized at the site to monitor organic vapors. It is not anticipated that laboratory analytical samples will be required.

2.5 Site Reclamation and Restoration

Upon completion of the excavation work and waste characterization, the affected area will be sloped consistent with the rest of the landfill and capped with the clay that was

retained and segregated during the excavation activities. The restored clay cap will be placed at least two feet thick to match the remaining portion of the landfill. The area of the landfill excavated completely will be leveled and compacted as appropriate to retain drainage characteristics of the property and to preserve the integrity of the remainder of the landfill.

2.6 Reporting

Following the conclusion of the landfill waste characterization activities, a report will be prepared documenting the activities at the site, the nature of the wastes encountered and site restoration. The report will include copies of field notes and photo-documentation of the site activities. The report will include recommendations on whether a clean closure remains a viable option for the property and a general structure of the process necessary to clean close the landfill.

3.0 SCHEDULE

It is important that excavation work, assessment and restoration work be conducted during the dry season to prevent infiltration of rainfall and surface drainage into the landfill waste. Accordingly, all work must be completed by the end of October 2014.

It is anticipated that work plan approval will be granted by Placer County Environmental Health Department by the end of July 2014.

Excavation and testing is expected to commence in early August 2014 and be completed by early September 2014, including site restoration work.

Contingencies include additional excavation work if the landfill waste characterization is not adequate as planned, however, excavation and testing activities will not extend into the rainy season in any case.

A report of findings is expected to be submitted to Placer County Environmental Health Department within 60 days of the completion of the landfill testing.

4.0 LIMITATIONS, REMARKS AND SIGNATURES

The findings presented herein are professional opinions based on the data presented in this work plan. They are intended only for the indicated purpose and project site. Furthermore, the findings presented herein apply to site conditions existing at the time of our study. Changes in the conditions of the subject property can occur with time because of natural processes or the works of man on the project site or on adjacent properties. Changes in applicable standards can also occur as the result of legislation or from the broadening of knowledge. Accordingly, the recommendations of this work plan may be invalidated, wholly or in part, by changes beyond our control.

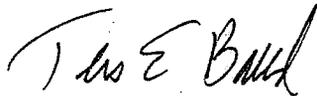
This work will be performed for the sole use of Geological Analytics' client and appropriate regulatory agencies. Any reliance on this report by a third party is at such party's sole risk. Please note that the findings and recommendations presented herein are based, in part, on information generated by others. As a result, Geological Analytics cannot guarantee the precision or accuracy of data generated by other entities.

Geological Analytics' professional services were performed and findings obtained in accordance with generally accepted environmental consulting principles and practices in Placer County in 2014. This warranty is in lieu of all other warranties, either expressed or implied.

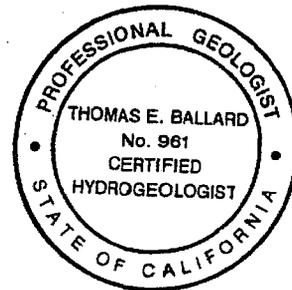
We appreciate the opportunity to provide you with geologic, engineering and environmental consulting services and trust this report meets your needs. If you have any questions or concerns, please call us at (916) 226-5072.

Sincerely,

Geological Analytics



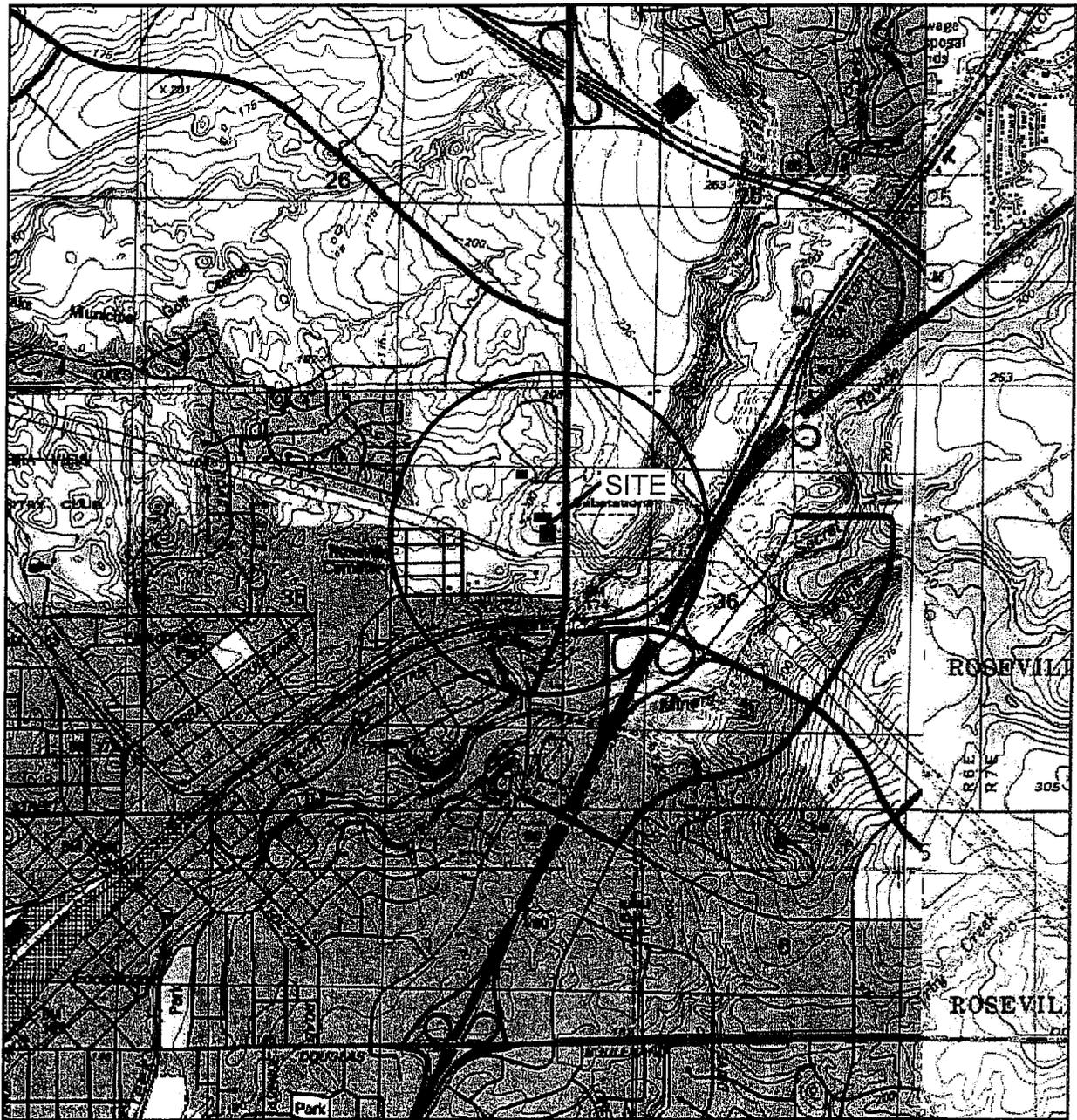
Thomas E. Ballard, P.G. #7299, C.H.G. #961
Principal Hydrogeologist



Attachments:

Figure 1 – Site Location Map

Figure 2 – Site Map Showing Test Excavation Limits



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GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 ROSEVILLE, CA
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED: 1992



QUADRANGLE LOCATION

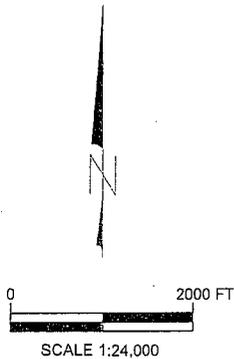


FIGURE 1

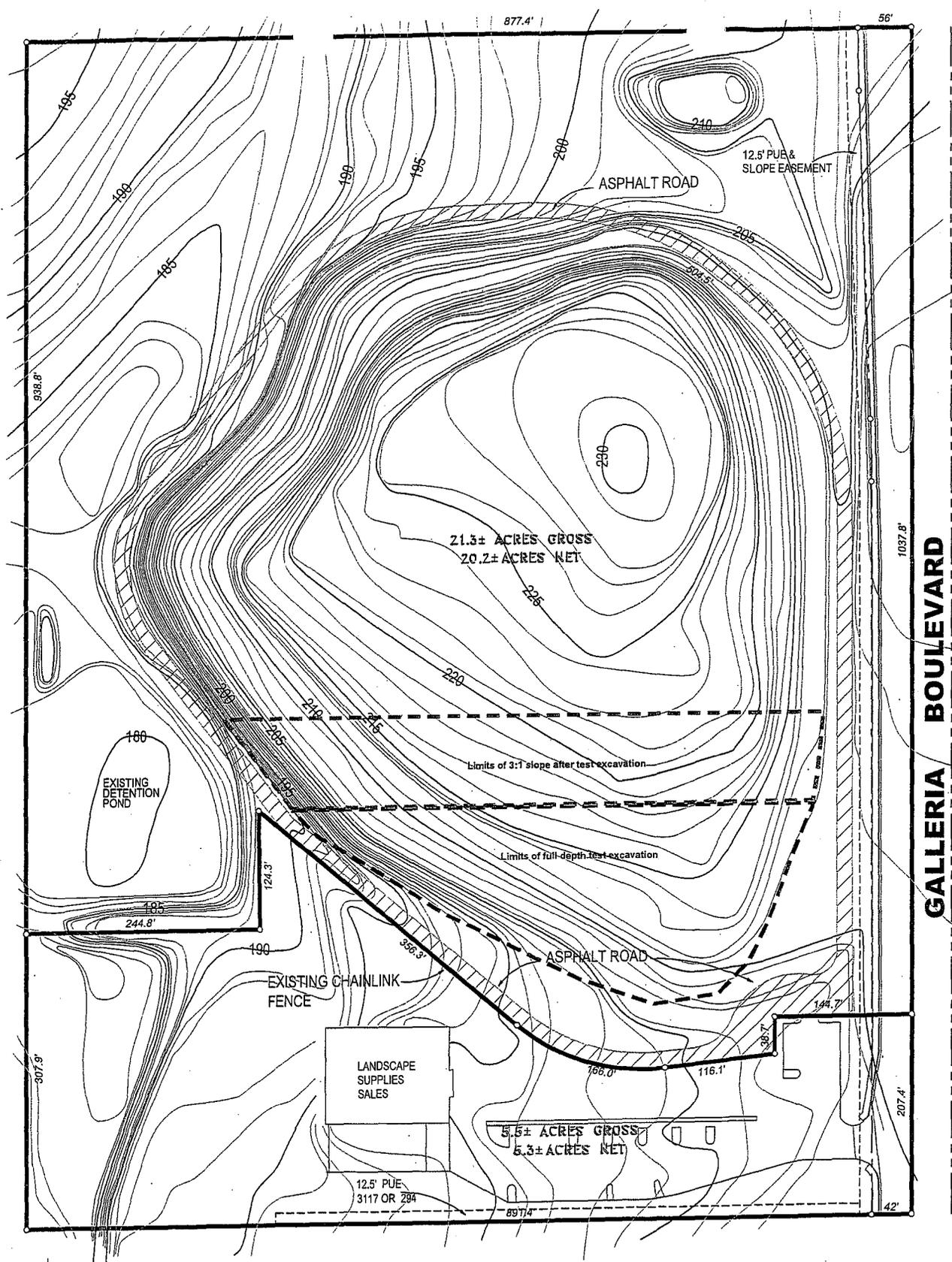
SITE LOCATION MAP

BERRY STREET MALL LANDFILL
 ROSEVILLE, CALIFORNIA

PROJECT NO. 03-1039	DRAWN BY JWY 7/20/06
FILE NO. 03-1039-01	PREPARED BY T.E.B.
REVISION NO. 0	REVIEWED BY



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GALLERIA BOULEVARD



SCALE: 1"=60'

