BLAINE
TECH SERVICES INC.

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December 13, 1991

JAN 06 '92 T.L.H.

Chevron USA, Inc.
2410 Camino Ramon
San Ramon, CA 94583

Attn: Nancy Vukelich

SITE:
Chevron Service Station No. **9-2384**
15526 Hesperian Boulevard
San Lorenzo, California

PROJECT:
Follow up work consisting of liaison and documentation activities performed during the handling and aeration of stockpiled soil that was generated during the tank removal phase of the current project.

VOLUME II

MULTIPLE VISIT STOCKPILE TRACKING REPORT 911120-C-1

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. performs no consulting and does not become involved in the marketing or installation of remedial systems of any kind. Blaine Tech Services, Inc. is concerned only with the generation of objective information, not with the use of that information to support evaluations and recommendations concerning the environmental condition of the site. Even the straightforward interpretation of objective analytical data is better performed by interested regulatory agencies, and those engineers and geologists who are engaged in the work of providing professional opinions about the site and proposals to perform additional investigation or design remedial systems.

DIVISION OF RESPONSIBILITIES

Routine soil handling actions are ordered by Chevron USA, Inc. Environmental Engineers in conformance with established regulatory guidelines and Chevron's own response policies. Chevron Environmental Engineers arrange for and authorize the contractor and/or excavation subcontractor to perform routine soil handling actions (excavation, aeration, etc.) in conformance with applicable regulations, a Chevron USA, Inc. Work Plan, and the verbal or written directions of the Chevron engineer in charge of the project. Chevron separately authorizes Blaine Tech Services, Inc. to collect samples and document the various soil handling activities being performed by the contractor and/or excavation subcontractor. Blaine Tech Services, Inc. is charged with performing ongoing liaison functions that include facilitating communications between the active and interested parties and tracking the current status and location of all soil being handled by the contractor and/or excavation subcontractor. Blaine Tech Services, Inc. is also responsible for documenting all major movements of stockpiles and the disposition of the soil so that a formal report can be issued summarizing the main actions taken by the contractor and/or excavation subcontractor.

ORGANIZATION OF REPORTS

This Multiple Visit Stockpile Tracking Report covers a series of seventeen (17) site visits and sampling events conducted by Blaine Tech Services, Inc. in response to the request of Ms. Nancy Vukelich, Chevron Environmental Engineer, that we continue to document the generation, movement, and disposition of stockpiled soil that began with the tank removal work. Therefore, this report describes events that are a *continuation* of work that started with the events described in our Multiple Event Sampling Report 910606-N-1. We will, hereafter, refer to that original Multiple Event Sampling Report 910606-N-1 as **Volume I** and to this Multiple Visit Stockpile Tracking Report 911120-C-1, as **Volume II**.

Volume I (910606-N-1) contained a detailed description of the two initial site visits performed by our firm on this project:

Visit A

May 30, 1991/ 910530-G-1 (BTS sampling event)
Tank removal sampling

Visit B

June 6, 1991/ 910606-N-1 (BTS sampling event)
Stockpile sampling

Volume II: This current report (911120-C-1) contains a detailed description of the seventeen (17) subsequent site visits and sampling events conducted by our personnel:

Visit C

August 5, 1991/ 910805-G-1
Begin re-excavation of soil in main tank pit.

Visit D

August 6, 1991/ 910806-G-1
Continued re-excavation of main tank pit.

Visit E

August 7, 1991/ 910807-G-1
Complete re-excavation and sample stockpiles

Visit F

August 9, 1991/ 910809-G-1
Sample tank pit walls and uncover Section 6 and 13 soil.

Visit G

August 13, 1991/ 910813-G-1
Uncover Section 12 and 13 soil.

Visit H

August 19, 1991/ 910819-G-1
Vapor survey.

Visit I

August 29, 1991/ 910829-C-1
Vapor survey.

Visit J

August 30, 1991/ 910830-C-1
Establish staging area for aerated Section 12 and 13 soil.
Uncover Section 8, 9, and 10 soil.

Visit K

September 3, 1991/ 910903-C-1
Uncover Section 7, 8, and 11 soil.

Visit L

September 11, 1991/ 910911-C-1
Vapor survey and collection of a single spot check sample.

Visit M

September 13, 1991/ 910913-C-1
Remaining Section 12 and 13 soil uncovered. Section 6 soil spread.

Visit N

September 30, 1991/ 910930-C-1
Section 1, 2, and 3 uncovered.

Visit O

October 3, 1991/ 911003-C-1
Section 4 and 5 soil uncovered.

Visit P

October 16, 1991/ 911016-C-1
Aerated soil moved to staging area. Samples collected after additional excavation near dispenser pump island. Samples of newly excavated soil.

Visit Q

November 1, 1991/ 911101-C-1
Collect RWQCB discrete stockpile characterization samples. Continued excavation of dispenser pump island.

Visit R

November 5, 1991/ 911105-C-1
Uncover additional excavation stockpile. Continue additional excavation. Sample excavation walls and newly excavated soil.

Visit S

November 20, 1991/ 911120-C-1
Observe tank pit backfill. Sample aeration lift containing soil from additional excavation and Visit Q sample #20 material.

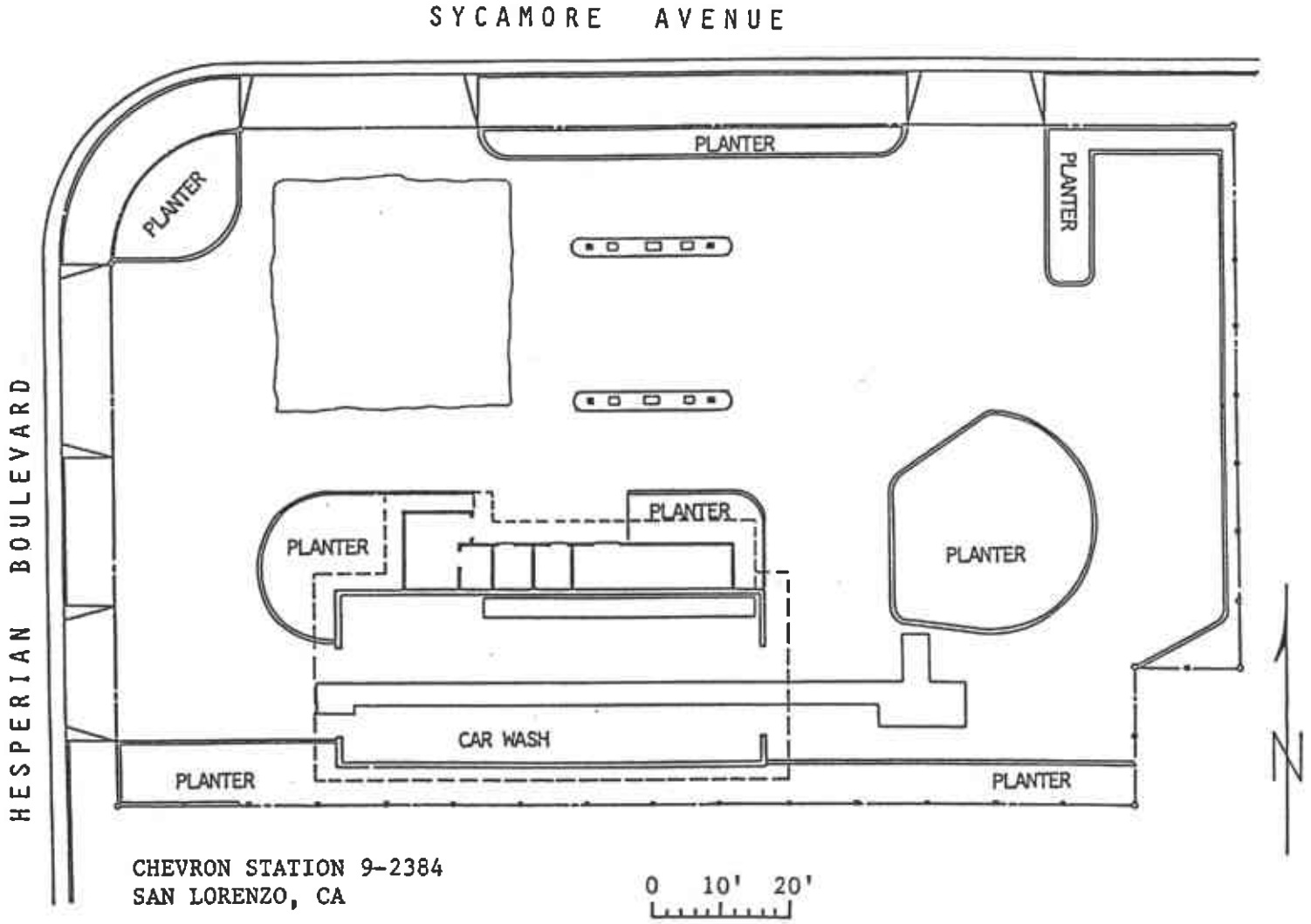
This report, **Volume II**, presents each of these last seventeen (17) site visits in chronological order. It contains descriptive text, diagrams, and a (fold out) comprehensive table of sampling locations and analytical results. The chain of custody records and laboratory's certified analytical reports are presented as supporting documents in an appendix following the close of the report.

TABLE OF CONTENTS

Chevron Station 92384

MASTER SITE DIAGRAM

Chevron Station 9-2384



PREVIOUS WORK SUMMARIZED

Volume I was issued as Multiple Event Sampling Report 910606-N-1 on October 28, 1991. **Volume I** described the following:

Visit A

May 30, 1991 / 910530-G-1

Tank Removal Sampling

Blaine Tech Services, Inc. personnel came to the site on May 30, 1991 to collect samples following the removal of three underground gasoline storage tanks. Standard RWQCB interface samples were taken of the native soil at points corresponding to both ends of each tank. Samples were also taken from areas associated with subsurface product lines which conducted fuel from the underground storage tanks to the fuel dispenser pumps.

The stockpiled soil generated during the excavation of the tank pit had been placed in two piles. LIA inspector Ms. Pamela Evans of the Alameda County Health Agency explained to our representative that in all cases where the excavated soil was going to be reused as backfill material it would be necessary to have stockpiles sampled according to the RWQCB soil characterization protocol. Our representative took this information as a straightforward direction from the LIA inspector and proceeded to sample the stockpiles according to the RWQCB protocol which is thoroughly discussed in an RWQCB/San Francisco By Region document titled --Draft--DCW 1/10/90--Stockpile Soil Characterization Procedure. In its simplest form, the RWQCB protocol requires the collection of one discrete sample for each twenty cubic yards of soil. All stockpiles were sampled in accordance with that protocol.

Visit B

June 6, 1991 / 910606-N-1

Stockpile Sampling

Blaine Tech Services, Inc. personnel were sent back to the site on June 6, 1991 to collect samples from a soil stockpile generated by the tank removal excavation that had not been previously sampled. Our personnel collected samples according to the RWQCB soil characterization protocol (1 sample for each 20 cubic yards of material) requested by the LIA inspector. However, our representative deduced that the reason the stockpile had not been sampled was because the stockpile was primarily composed of pea gravel which does not analyze well. Knowing the difficulty laboratories have with pea gravel samples, the samples were placed on hold pending discussion between the interested parties. (The samples remained on hold and were never analyzed.)

CURRENT WORK

Volume II is, herein, issued as Multiple Visit Stockpile Tracking Report 911120-C-1

Visit C

August 5, 1991 / 910805-G-1

Background

A Review of the analytical results by Chevron's Environmental Engineers led to the development of a formal Work Plan for dealing with contaminated soil at the site. A Chevron document titled Proposed Soils Remediation Work Plan, for Former Chevron Service Station #9-2384 at 15526 Hesperian Blvd., San Lorenzo, CA. was submitted to Inspector Pamela Evans of the Alameda County Health Agency on July 23, 1991. That Chevron Work Plan described the excavation of additional soil from the tank pit and associated fuel dispensing areas and went on to describe the actions that would be undertaken to move the excavated soil through an aeration regimen which is the subject of **Volume II.**

Visit C

On August 5, 1991, Chevron's Ms. Nancy Vukelich brought a number of people together at the site to discuss the soil handling work that would be needed to carry out the Chevron Work Plan. The contractor, R.L. Stevens was represented by Mr. Stevens. The excavation subcontractor, Pacific Excavators was represented by Mr. Joe Madison. Blaine Tech Services, Inc. had four representatives: Mr. Bennett, Mr. Lee, Mr. Graves and Mr. Blaine.

Ms. Vukelich distributed copies of the Chevron Work Plan and indicated the areas where over excavation would be needed. Stockpile sampling was outlined and there was discussion of the movement, the covering, and the uncovering of stockpiled soil according to BAAQMD Regulation 8, Rule 40.

Using the analytical information obtained from analysis of the tank removal samples, Ms. Vukelich explained how the excavation subcontractor was to remove soil and directed the excavation subcontractor to begin work by re-excavating soil which had been pushed back into the open tank pit. The pit would be enlarged and overexcavated as needed to remove fuel affected soil.

The excavation subcontractor began removing material from the north side of the pit. However, the truck mounted excavator's modest rate of soil removal indicated that more than one day would be involved in re-excavating the pit down to the depth where groundwater stood at fourteen to fourteen and a half feet (14.0' to 14.5') below grade.

The excavator was temporarily diverted to the task of cutting a series of exploratory trenches so that soil conditions could be more quickly observed and samples could be taken over a wider area than the machine was likely to expose in the course of the first day's work. In all, five exploratory trenches were dug. They were identified as exploratory trench A, B, C, D, and E. Soil brought up out of these trenches was measured with a field portable PID (photo ionization detector) and soil samples were collected for laboratory analysis. Three of these samples were collected from the capillary zone.

Sample #1 was taken from Exploratory Trench B at a depth of eight to ten feet (8.0' to 10.0') below grade.

Sample #2 was a capillary zone sample taken from Exploratory Trench C.

Sample #3 was a capillary zone sample taken from Exploratory Trench D.

Sample #4 was a capillary zone sample taken from Exploratory Trench E.

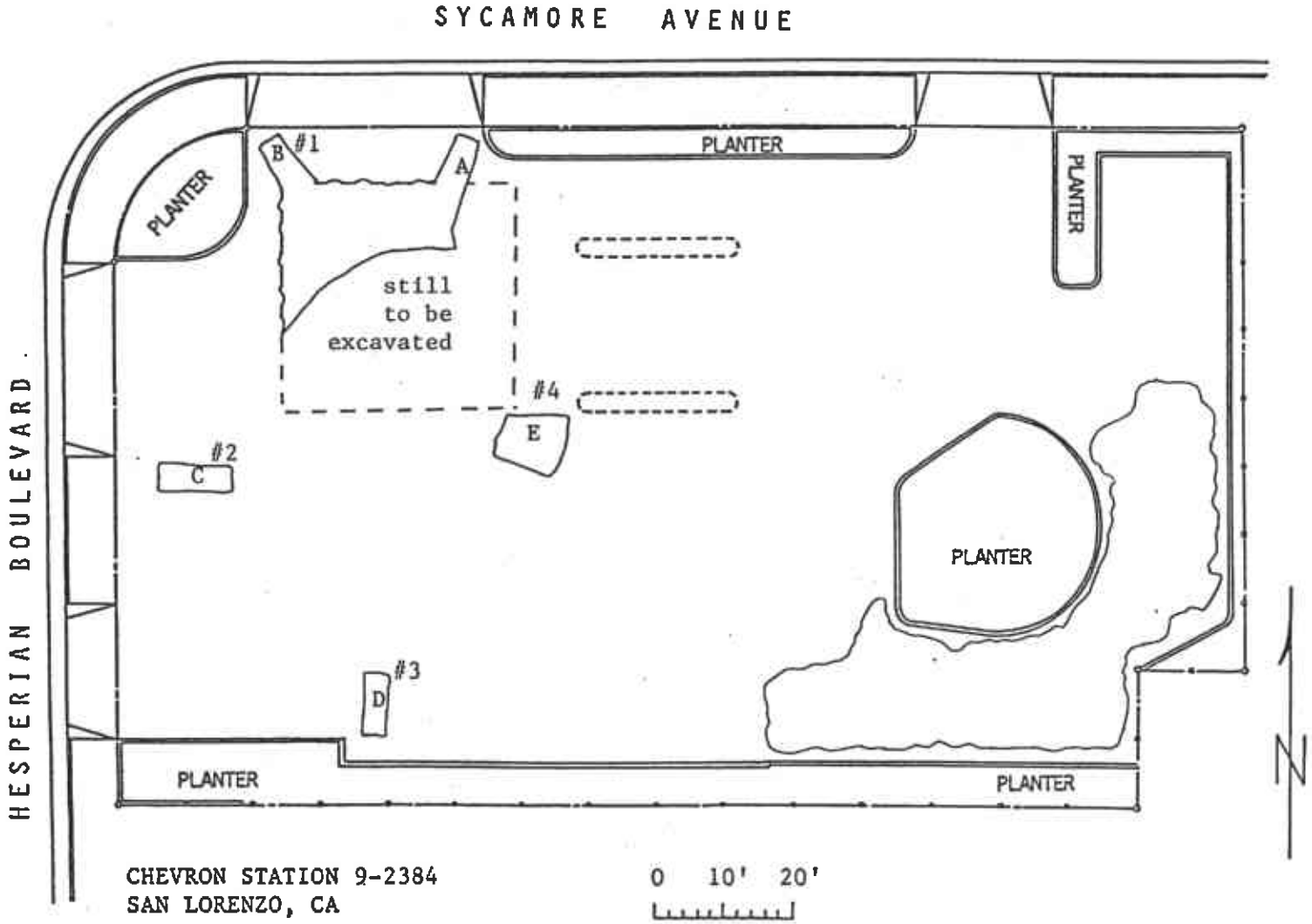
These samples were immediately taken to Superior Precision Analytical, Inc. in Martinez, California by one of the Blaine Tech Services, Inc. representatives. The samples were signed over to the laboratory at 1545 hours. A Blaine Tech Services, Inc. chain of custody form for sampling event 910805-G-1 was completed.

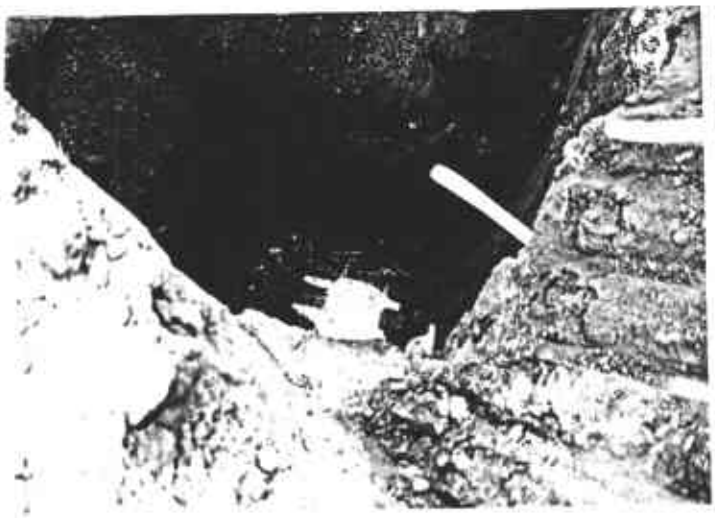
At the job site, the excavator had been returned to the work of removing more soil from tank pit area. By the end of the day, approximately 200 cubic yards of material had been excavated. This material was stockpiled on plastic sheeting and covered with plastic sheeting to prevent uncontrolled aeration.

Because the re-excavation of the tank pit had not been completed, work was scheduled to resume in the morning. Our personnel elected to wait for the rest of the soil that would be excavated the following day before collecting samples.

VISIT C

August 5, 1991 / 910805-G-1






GET


MODEL 580E OVM
Thermo Environmental Instruments Inc.


TA

Visit D

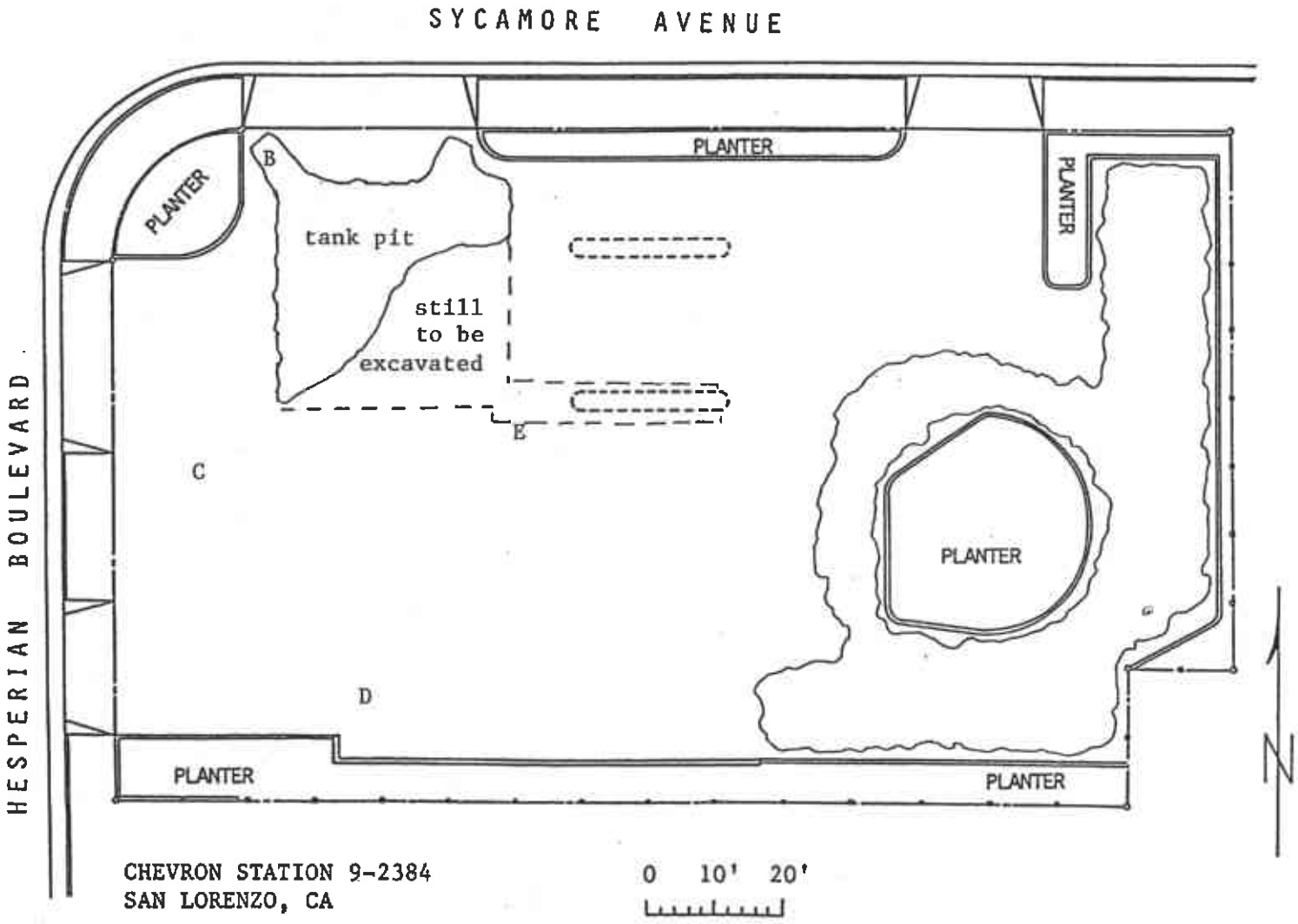
August 6, 1991 / 910806-G-1

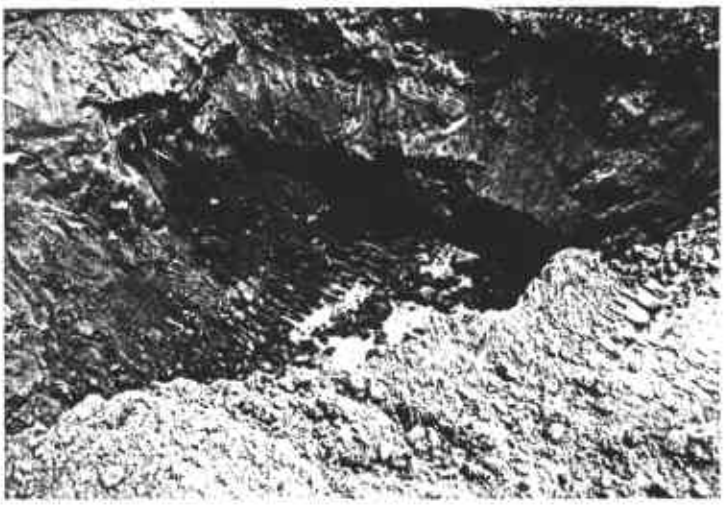
On Tuesday, August 6, 1991 our personnel returned to the site to observe the continued re-excavation of soil that had been shoved into the tank pit. The excavation subcontractor, Pacific Excavators, continued the work with the truck mounted excavator used the previous day.

The work continued through most of the day. By the end of the day, approximately 400 cubic yards had been removed (total yardage for both Monday and Tuesday). This material was stockpiled at the east end of the site and covered with plastic sheeting material.

VISIT D

August 6, 1991 / 910806-G-1





Visit E

August 7, 1991 / 910807-G-1

Our personnel returned to the site to observe re-excavation work by the excavation subcontractor on Wednesday, August 7, 1991. The last of soil which had been pushed back into the tank pit was removed. Continual sloughing of the west pit wall concerned the excavation subcontractor and he was careful not to enlarge the pit to the north or west out of concern for the public sidewalks and streets.

The soil removed from the tank pit was stockpiled along the south side of the property and at the east end of the property as shown on the accompanying Visit E Diagram.

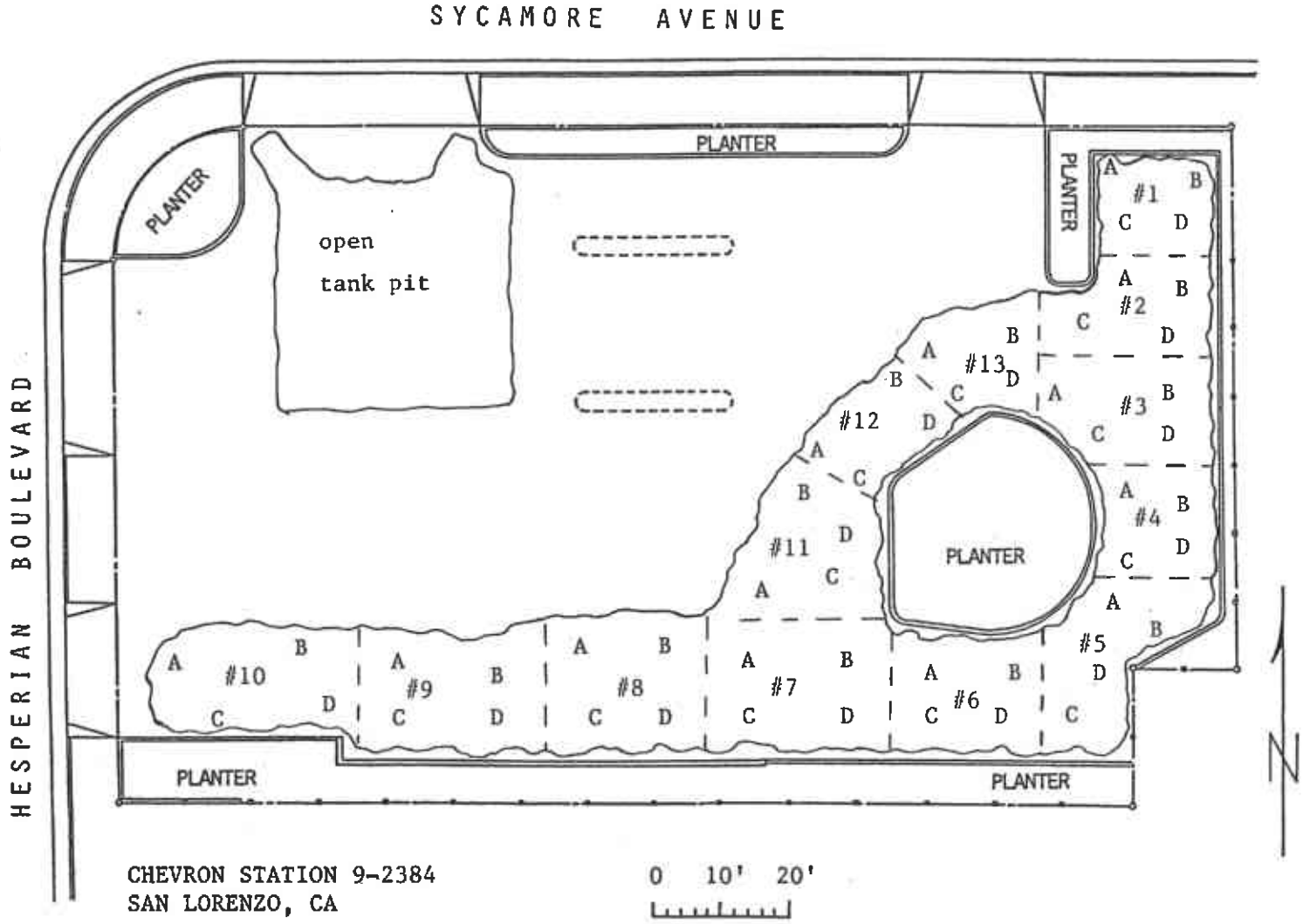
Having informed Alameda County Health Agency inspector Pamela Evans that sampling would be proceeding throughout much of the day, our personnel collected samples in conformance with the BAAQMD stockpile sampling protocol. This protocol requires the collection of one four-part composite sample for each fifty cubic yards of soil that is to be aerated. The results of analysis are then referenced to a table published by the BAAQMD that indicates the amount of soil at a given level of hydrocarbon content which can be legally introduced to uncontrolled aeration (uncovered) in any given twenty-four hour period according to Regulation 8, Rule 40. An acknowledgement of our announced intention to collect samples of this type was obtained from Ms. Evans prior to the commencement of sampling activities.

Four part composite samples were obtained from all the stockpiles of soil which now totaled approximately 650 cubic yards of material. In all, thirteen (13) four part composite samples were collected.

These samples were delivered to Superior Precision Analytical in Martinez, California at 1600 hours. A Blaine Tech Services, Inc. chain of custody form for sampling event 910807-G-1 was completed.

VISIT E

August 7, 1991 / 910807-G-1



Visit F

August 9, 1991 / 910809-G-1

Background

Laboratory results for the samples collected during Visit E on Wednesday, August 7, 1991 were obtained from the laboratory on Thursday, August 8, 1991. The analytical values were plotted on site diagrams and tables and distributed. These hydrocarbon concentrations were referenced to the BAAQMD Table 1 (8-40-301: Uncontrolled Aeration, Table 1, Allowable Rate of Uncontrolled Aeration) to determine what volumes of soil could be uncovered and introduced to uncontrolled aeration. The assembled data became the basis for proceeding with the soil aeration portion of the Chevron Work Plan.

However, before any soil was uncovered, the Air Pollution Control Officer at the BAAQMD was notified of Chevron's intention to aerate soil at this site in the days and weeks ahead.

Visit F

Our personnel returned to the site on Friday, August 9, 1991 and communicated initial stockpile uncovering information to the contractor's personnel.

The portion of the stockpile identified as Section 13 was so named because sample #13 had been collected from this 50 cubic yard section of stockpile during Blaine Tech Services, Inc. sampling event 910807-G-1/ Visit E. Section 13 had the highest level of TPH-G of all the material stockpiled on the site. At 1300 ppm, only 30 cubic yards of the 50 cubic yards sampled could be uncovered and introduced to uncontrolled aeration on that date.

Section 6, at only 43 ppm was entirely exempt from Regulation 8, Rule 40. The entire 50 cubic yard Section was uncovered.

Soil samples were also collected from three walls of the tank pit which had not yet been sampled: the east wall, the south wall, and the west wall. The north wall had been sampled on August 5, 1991 as part of Event C. These new samples were taken to help define any residual contamination of the soil at the edge of the tank pit.

Sample #1 was taken from the east wall of the tank pit at a depth of twelve feet (12.0') below grade.

Sample #2 was taken at from the east wall of the tank pit at a depth of five feet (5.0') below grade.

Sample #3 was taken from the south wall of the tank pit at a depth of twelve feet (12.0') below grade.

Sample #4 was taken from the south wall of the tank pit at a depth of five feet (5.0') below grade.

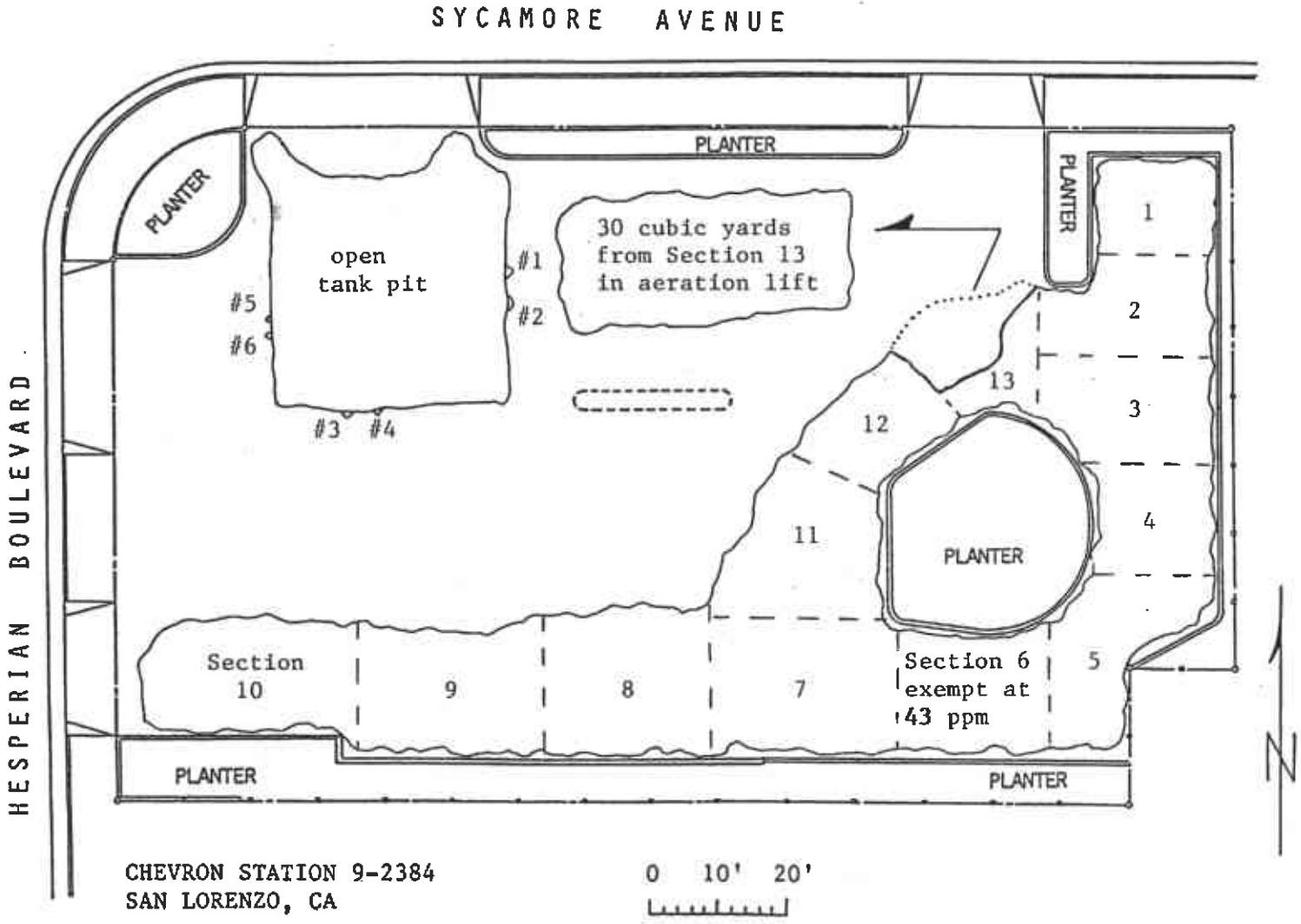
Sample #5 was taken from the west wall of the tank pit at a depth of eleven feet (11.0') below grade.

Sample #6 was taken from the west wall of the tank pit at a depth of four feet (4.0') below grade.

All samples were backhoe assisted. Soil was brought up out of the excavation in the excavator bucket and then sampled by our personnel.

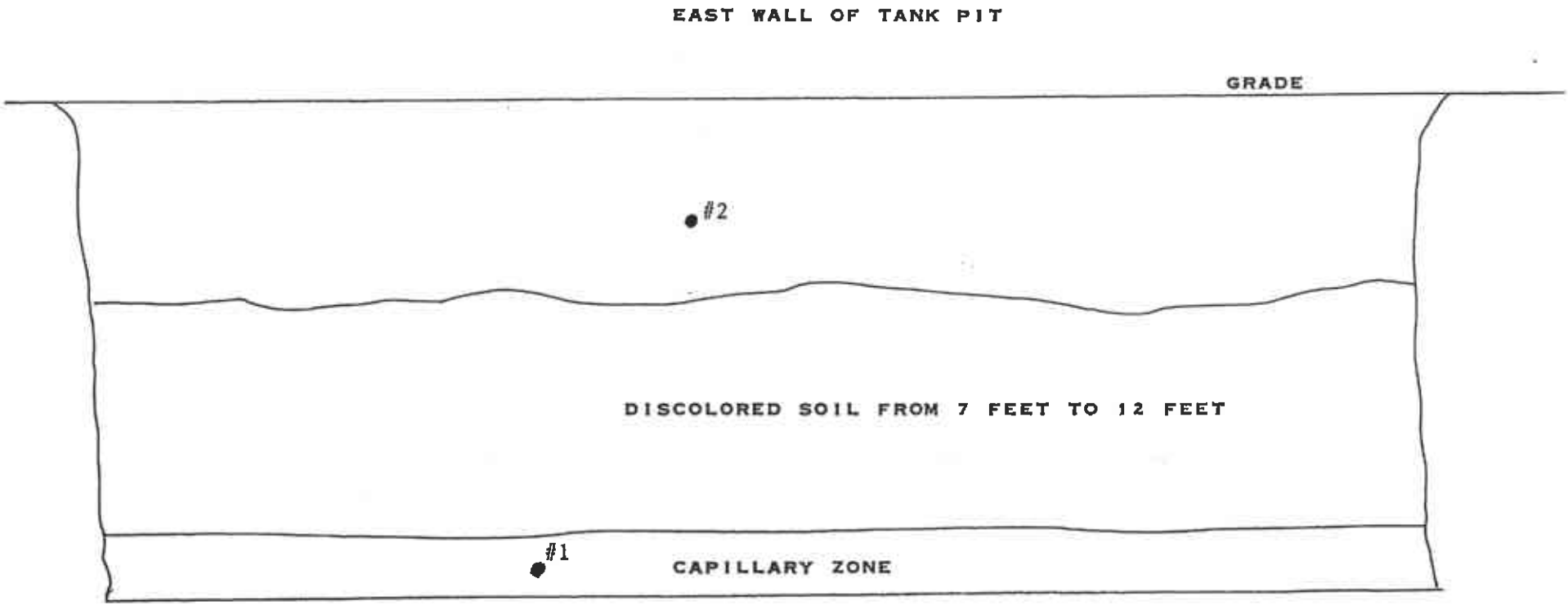
VISIT F

August 9, 1991 / 910809-G-1



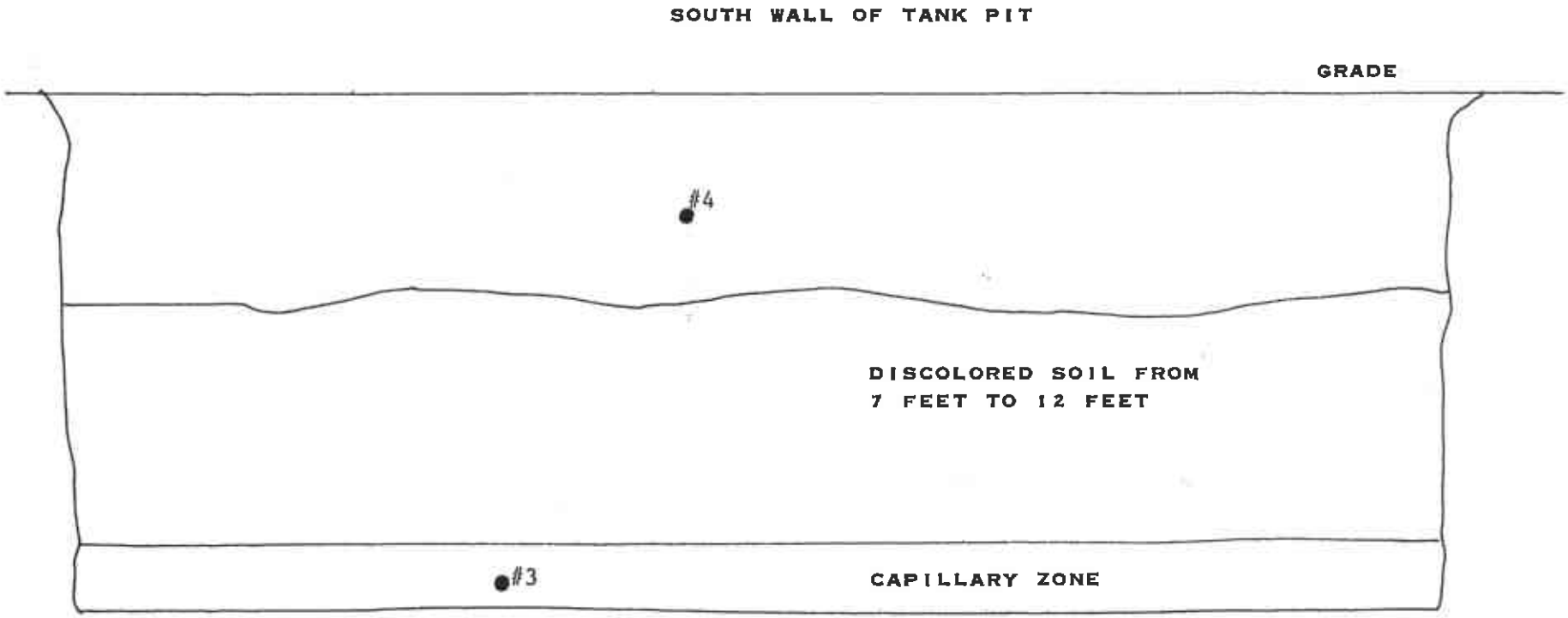
VISIT F

August 9, 1991 / 910809-G-1



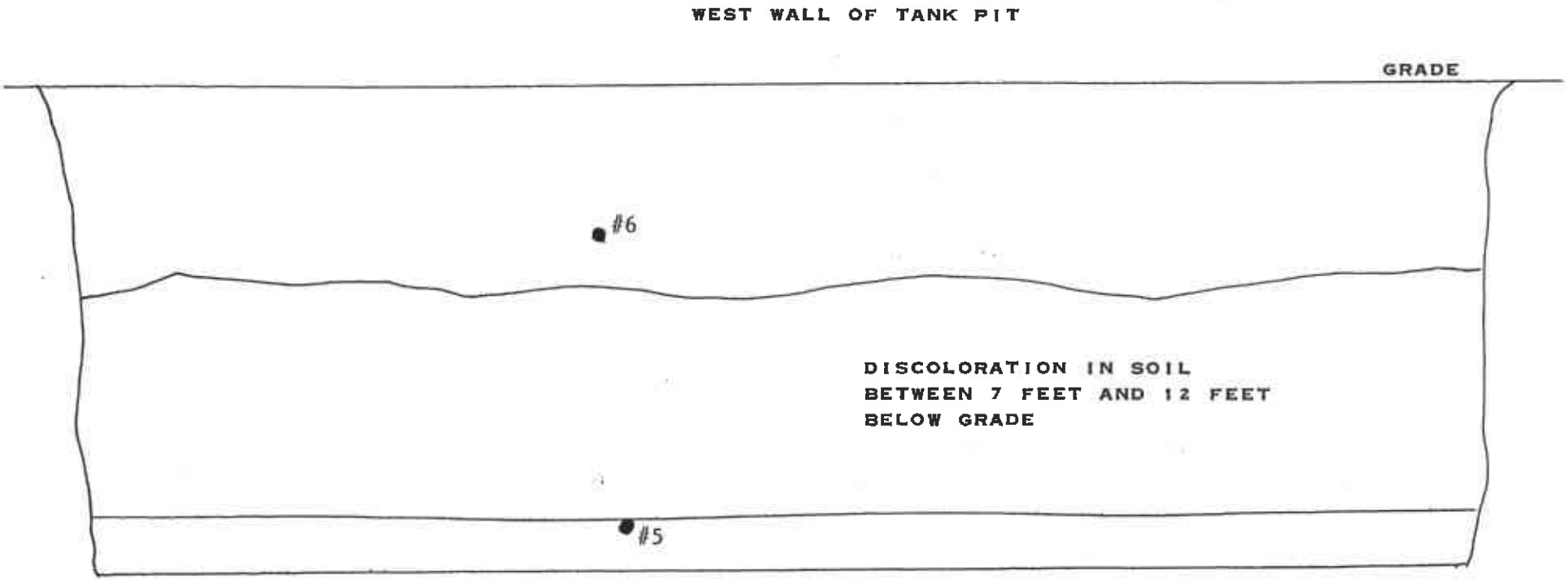
VISIT F

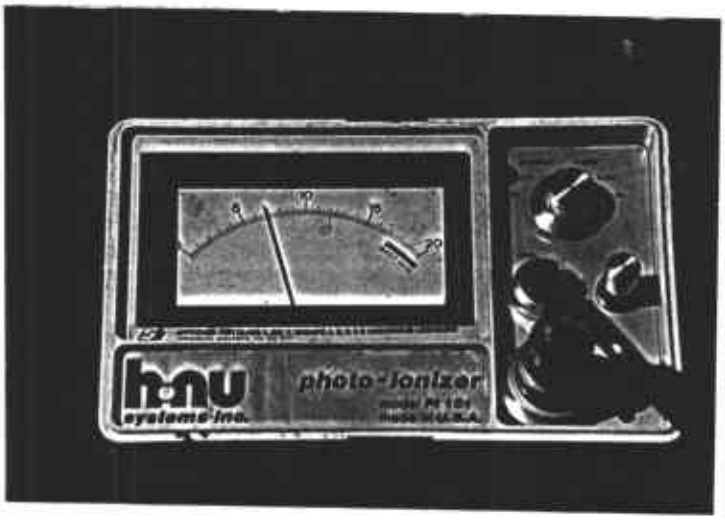
August 9, 1991 / 910809-G-1



VISIT F

August 9, 1991 / 910809-G-1




hnu
systems inc.
photo-ionizer

Visit G

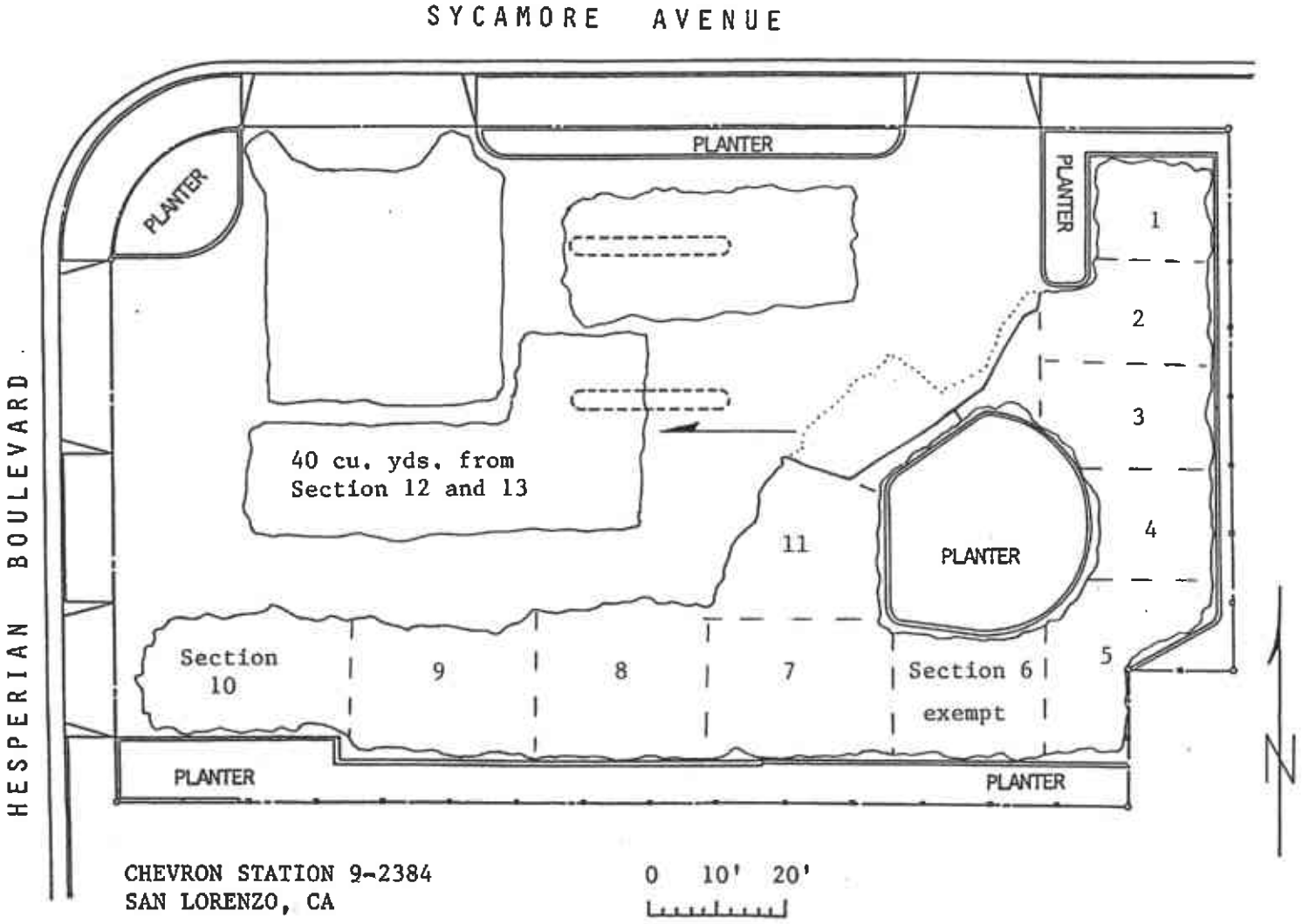
August 13, 1991 / 910813-G-1

Blaine Tech Services, Inc. personnel returned to the site on Tuesday, August 13, 1991 and met with Mr. Bob Stevens. Arrangements were made to lay down more plastic sheet on which soil would be spread in thin lifts. Mr. Stevens agreed that he would uncover a total of forty additional cubic yards of material. He would uncover about 50% of the remaining material from Section 13 and another 30 cubic yards of (610 ppm) soil in Section 12.

Mr. Stevens also said that he would have the 30 cubic yards already aerating tilled and agitated to promote aeration.

VISIT G

August 13, 1991 / 910813-G-1



Visit H

August 19, 1991 / 910819-G-1

Our personnel returned to the site on Monday, August 19, 1991 to conduct a vapor survey of the soil that was still covered and had not yet been introduced to aeration. A field portable H-Nu photo ionization detector (PID) was used to obtain vapor readings from the stockpiled soil. There was no expectation that this instrument would produce results directly comparable to laboratory results, but rather that the instrument readings would indicate the relative level of hydrocarbon vapors being outgassed by the various stockpiles.

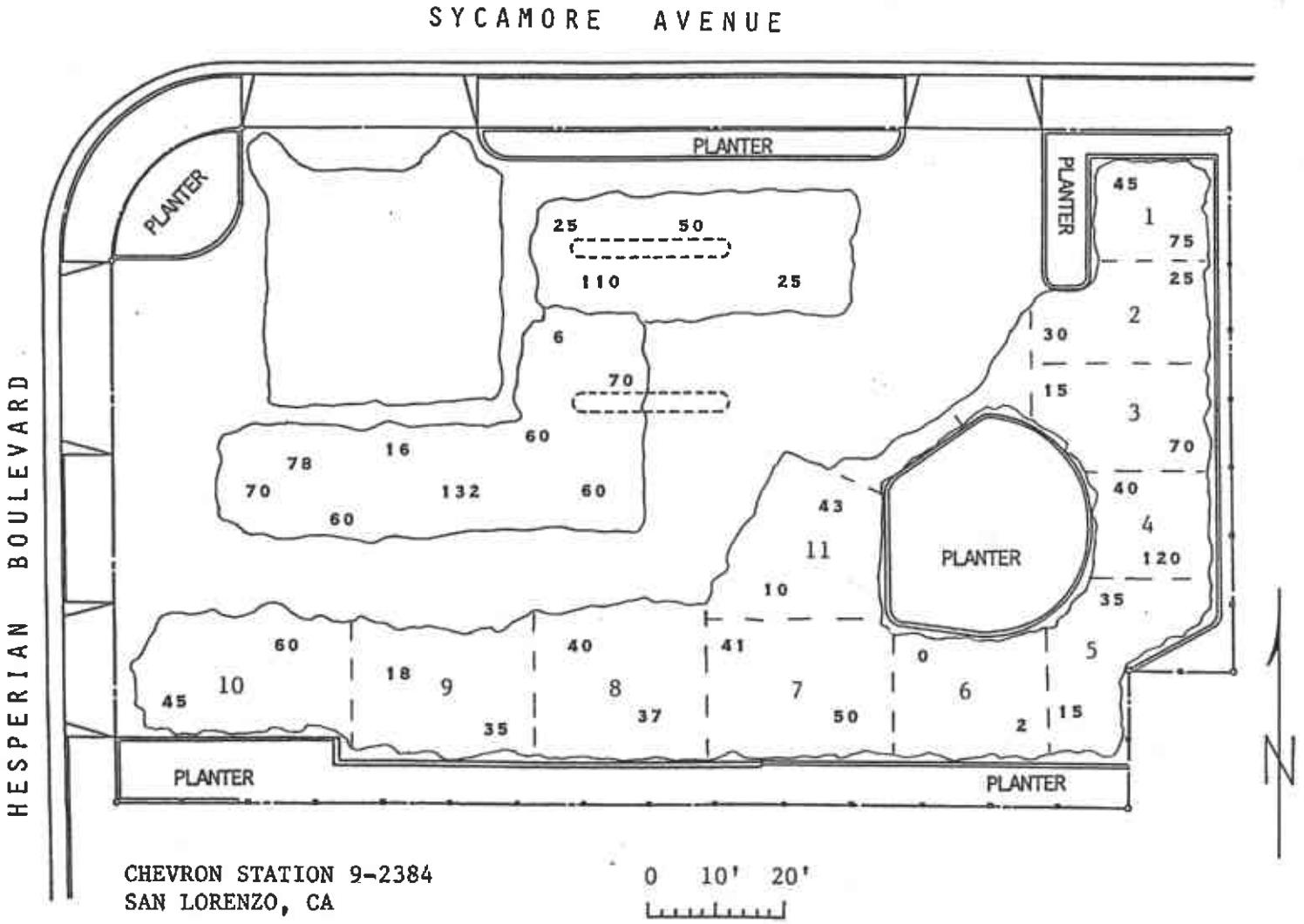
Each of the numbered stockpiles was monitored in two places. Additional checks were made of the soil spread out on plastic in thin aeration lifts. The results of the survey are depicted on the accompanying Visit H Diagram. Note that the pound sign (#) before a number (e.g. #9) indicates the numerical designation of that particular Section of stockpile. The vapor survey numbers are in opposite corners of the stockpile number.

VISIT H

August 19, 1991 / 910819-G-1

Sections are numbered

PID READINGS ARE IN PPM



Visit I

August 29, 1991 / 910829-C-1

A representative from our office returned to the site briefly on Thursday, August 29,1991. The purpose of the visit was to inspect the aerated soil lifts and determine if the aeration process appeared to be complete or if more turning was needed to reduce apparent fuel vapor. A field portable vapor meter was used to assist in the process of measuring the levels of hydrocarbon vapor being outgassed by the soil.

An inspection of the available space was also needed because it would soon be necessary to stockpile the aerated soil in a staging area. The aerated soil in the staging area would be sampled to determine if it was clean enough to qualify for backfill material under current RWQCB standards. The amount or soil in this staging area would continue to grow as more soil was uncovered, aerated, and brought to the end of its aeration cycle. Observations from this visit were needed to incorporate up-to-date information on the available space and obstructions into planning the next phase of work at the site. The information was used to formulate plans by Chevron USA, Inc., Blaine Tech Services, Inc., and R.L. Stevens that were put into affect on August 30, 1991.

Visit J

August 30, 1991 / 910830-C-1

A staging area for aerated soil was created on August 30, 1991. Soil would be taken out of the thin aeration lifts and moved into this staging area as soon as it appeared to be free of hydrocarbons. This would make room for more soil to be uncovered and spread in thin aeration lifts.

The staging area would serve as a place where the (presumed) clean soil could be stockpiled while awaiting sampling and analyses that would determine if the soil was clean enough to qualify as backfill material.

The staging area was placed along the west side of the property. It was foreseen that the staging area would expand as the ratio of aerated to unaerated material shifted.

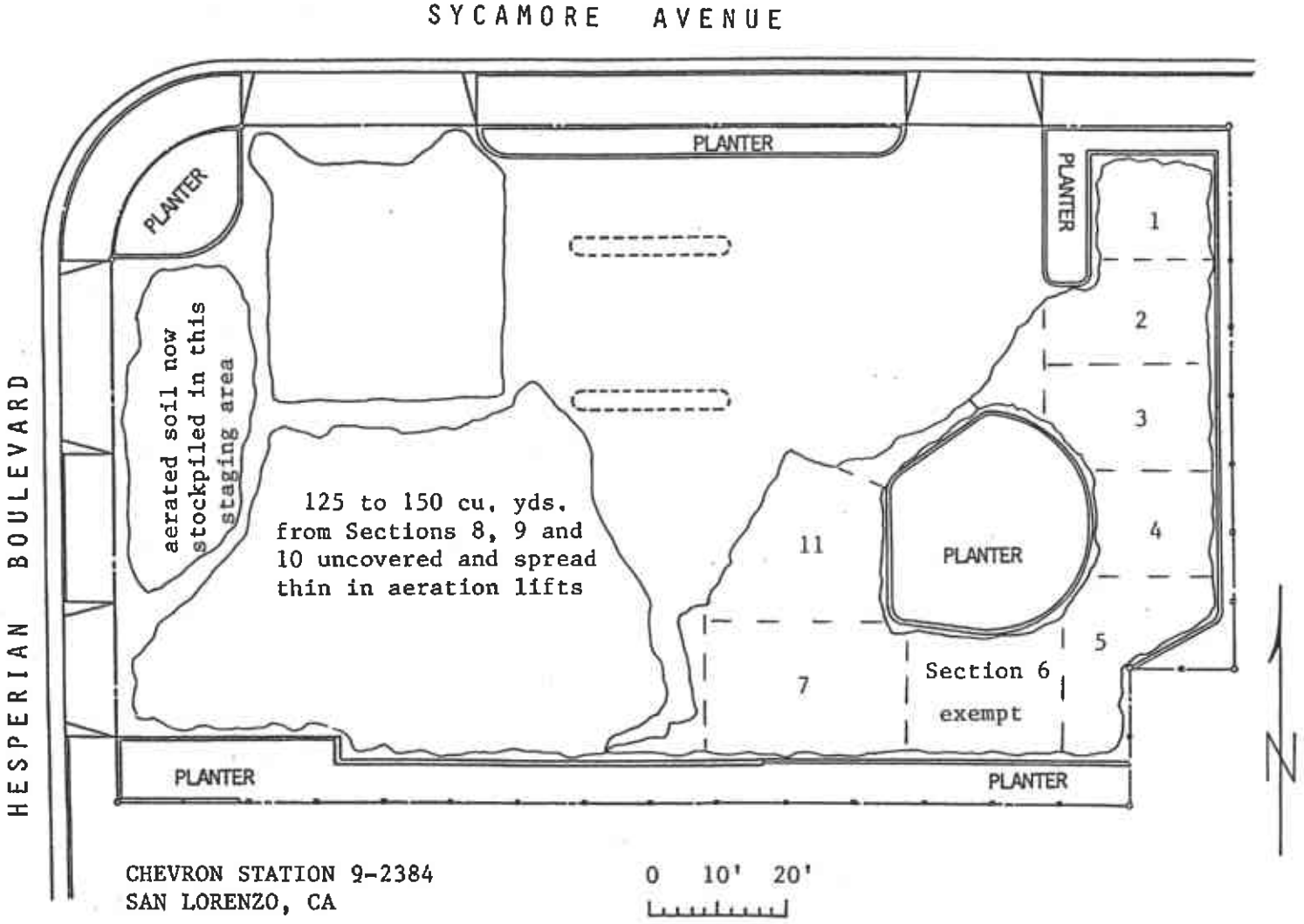
Seventy yards of material, inspected on August 29, 1991/ Visit I was designated as the first material to be moved into the newly created staging area. This included the 30 cubic yards of most highly contaminated soil from Section 13 which was spread in the first aeration lift after being introduced to aeration on August 9, 1991/ Visit F and 40 additional cubic yards of soil from Section 12 and Section 13 which was introduced to aeration and spread on August 13, 1991/ Visit G. As a precaution, the 30 cubic yards of most highly contaminated soil was scheduled to be tilled and agitated one final time prior to being moved into the staging area.

This movement created room for new soil to be spread in aeration lifts. Accordingly, between 125 and 150 cubic yards of soil from Section 8, Section 9, and Section 10 was introduced to aeration and spread thin by dragging the piles out onto the available space to the north of where the stockpiles had been standing.

These actions conformed with BAAQMD Regulation 8, Rule 40; the Chevron Work Plan; the aeration plan contained in the Chevron Work Plan, and subsequent planning by all the active and interested parties aimed and conducting the aeration and confirmation sampling in an orderly sequence of efficient events.

VISIT J

August 30, 1991 / 910830-C-1



Visit K

September 3, 1991 / 910903-C-1

Our personnel returned to the site on September 3, 1991 to confirm that soil introduced to aeration on August 30, 1991/ Visit J was being routinely tilled and agitated by the contractor and that soil introduced to aeration on August 9, 1991 had been moved to the staging area after having been tilled and agitated on final time.

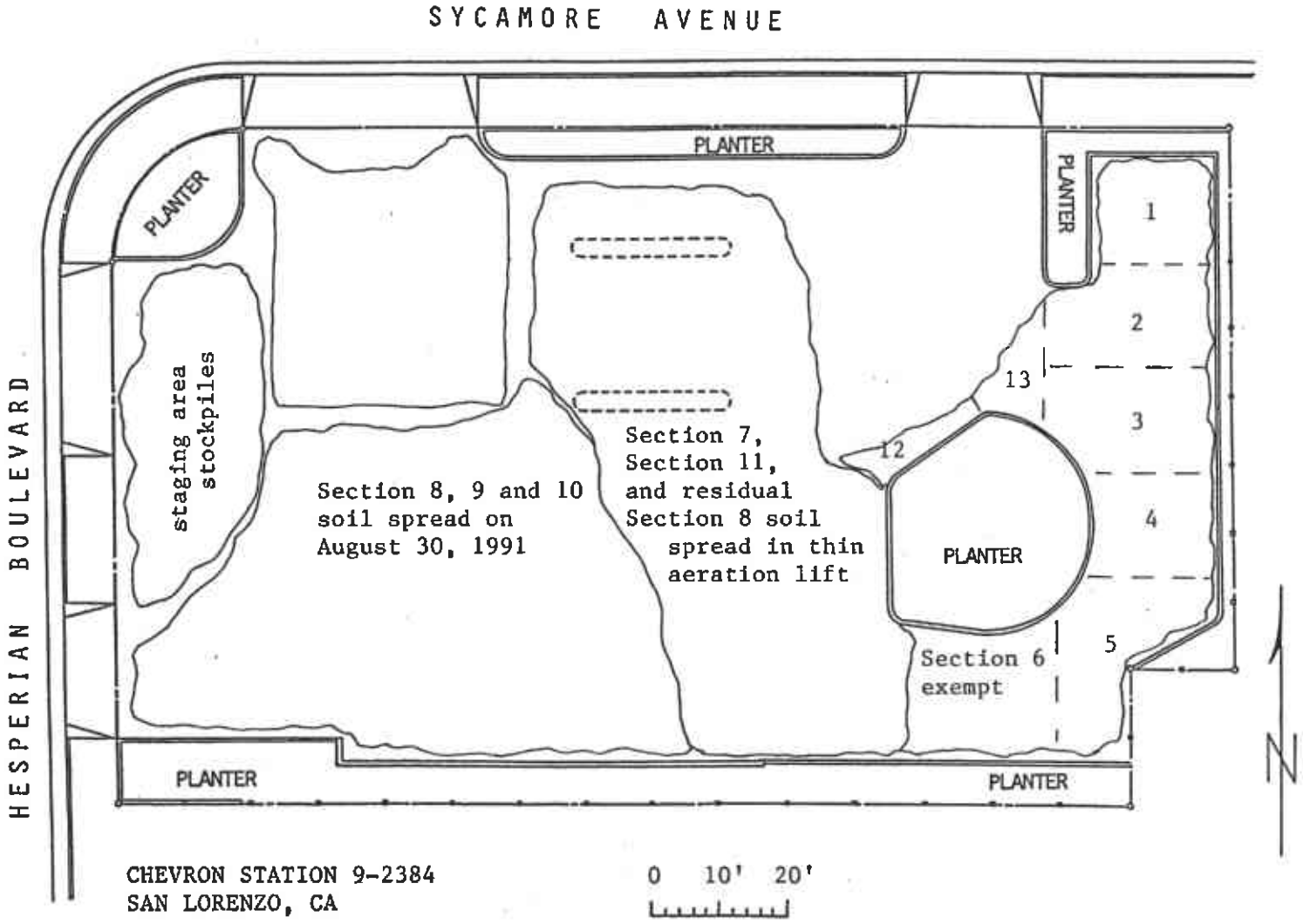
Soil from Section 7, Section 11 and all the remaining material from Section 8 was also introduced to aeration and spread as shown on the accompanying Visit K Diagram.

Our personnel summarized the placement of soil on the site as follows:

Between 300 and 350 cubic yards of soil have yet to be introduced to aeration. These are generally, however, the least contaminated materials according to previous analyses.

Between 250 and 275 cubic yards of soil are aerating according to BAAQMD Regulation 8, Rule 40.

100 cubic yards of soil is stockpiled in the staging area awaiting sampling, analysis and authorization to be returned to the tank pit as backfill in conformance with current RWQCB regulations.


SYCAMORE AVENUE
HESPERIAN BOULEVARD
PLANTER
PLANTER
PLANTER
PLANTER
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PLANTER
staging area stockpiles
Section 8, 9 and 10 soil spread on August 30, 1991
Section 7, Section 11, and residual Section 8 soil spread in thin aeration lift
Section 6 exempt
1
2
3
4
5
12
13
N
CHEVRON STATION 9-2384
SAN LORENZO, CA
0 10' 20'

Visit L

September 11, 1991 / 910911-C-1

On September 11, 1991, a vapor survey was undertaken before allowing soil which had been aerating in shallow lifts to be moved to the staging area. The 250 to 275 cubic yards of soil in the aeration lift was checked at different location using an H-Nu PID field instrument.

Recognizing that field instrument readings do not directly correspond to laboratory analytical values, our personnel noted that the PID did register a number of values higher than the 10 ppm laboratory standard for RWQCB backfill material. Based on these vapor readings it was subsequently decided to err on the side of caution and conduct further tilling and agitation of the soil on the grounds that this could be undertaken for a small fraction of the costs associated with sampling and analyzing soil which might still be sufficiently contaminated to require more aeration, sampling, and a second battery of laboratory analyses.

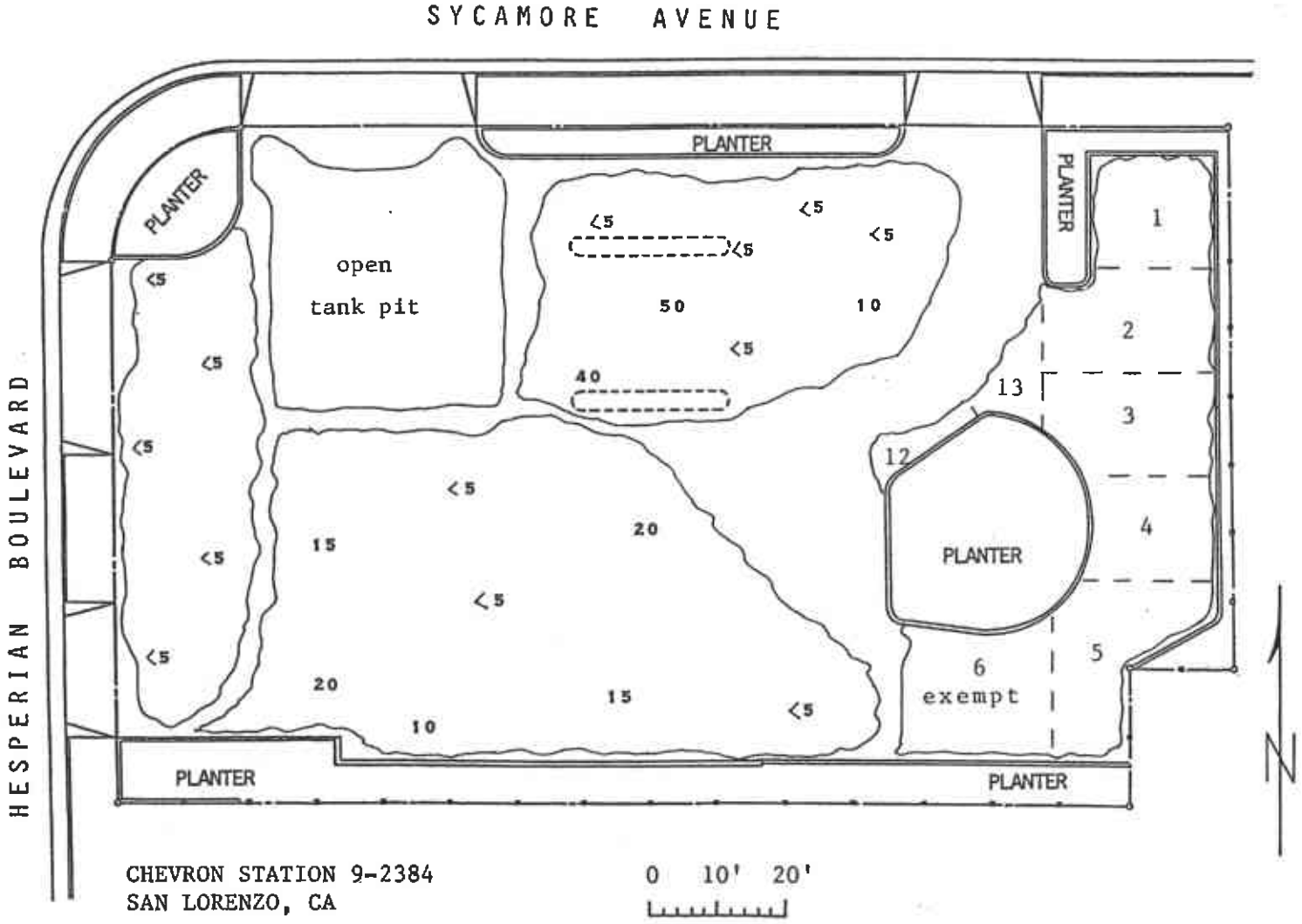
Before leaving the site, our personnel obtained a single four part composite sample from the (presumed) clean soil stockpiled in the staging area. The single four part composite was *not* expected to thoroughly characterize the stockpile in the manner required by the RWQCB or the Alameda County Health Agency. The purpose of this sample was to quickly and inexpensively validate the assumption of cleanliness being made about this material on a spot check basis. As such, this sampling was conducted as an elective confirmation of the aeration procedures and was not, in any way, intended to replace the formal requirements established by the LIA for evaluating the suitability of soil for reuse as backfill.

Sample #1A-D was obtained from soil in the staging area and delivered to Superior Precision Analytical, Inc. in Martinez, California to be analyzed for TPH-G/BTEX with a routine turn around time of five working days. The Chevron chain of custody form recorded our sampling event number as 910911-C-1

VISIT L

September 11, 1991 / 910911-C-1

Stockpile Sections are numbered
PID READINGS ARE IN PPM



Visit M

September 13, 1991 / 910913-C-1

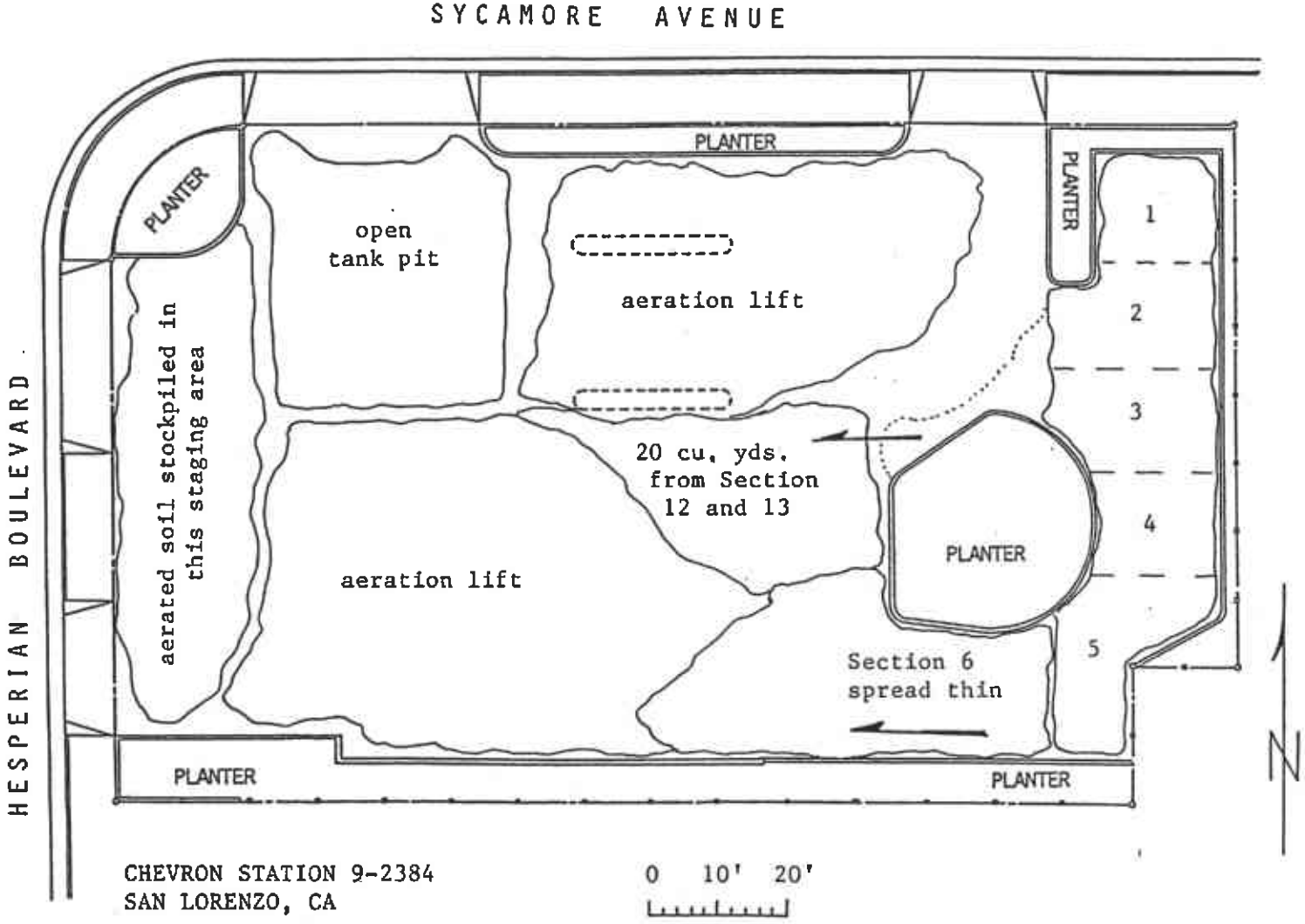
Our personnel returned to the site on Friday, September 13, 1991 and confirmed that the aerating soils were being agitated and tilled by the contractor.

In addition, our personnel asked the contractor to move approximately 15 to 20 cubic yards of soil left over from Section 12 and Section 13. This material was spread in the northwest corner of the aeration lift which is arranged along the south boundary of the property.

Another task requested of the contractor by Blaine Tech Services, Inc. personnel required them to spread out the Section 6 stockpile which was exempt from BAAQMD Regulation 8, Rule 40, and had only 43 ppm to begin with. However, it seemed prudent to knock this stockpile down and spread the material in as thin a lift as could be managed in the available space in the interest of reducing whatever hydrocarbon content still remained.

VISIT M

September 13, 1991 / 910913-C-1



Visit N

September 30, 1991 / 910930-C-1

On Monday, September 30, 1991, personnel from our office visited the site to observe the progress made by the contractor in executing routine assignments related to the aeration of stockpiled materials.

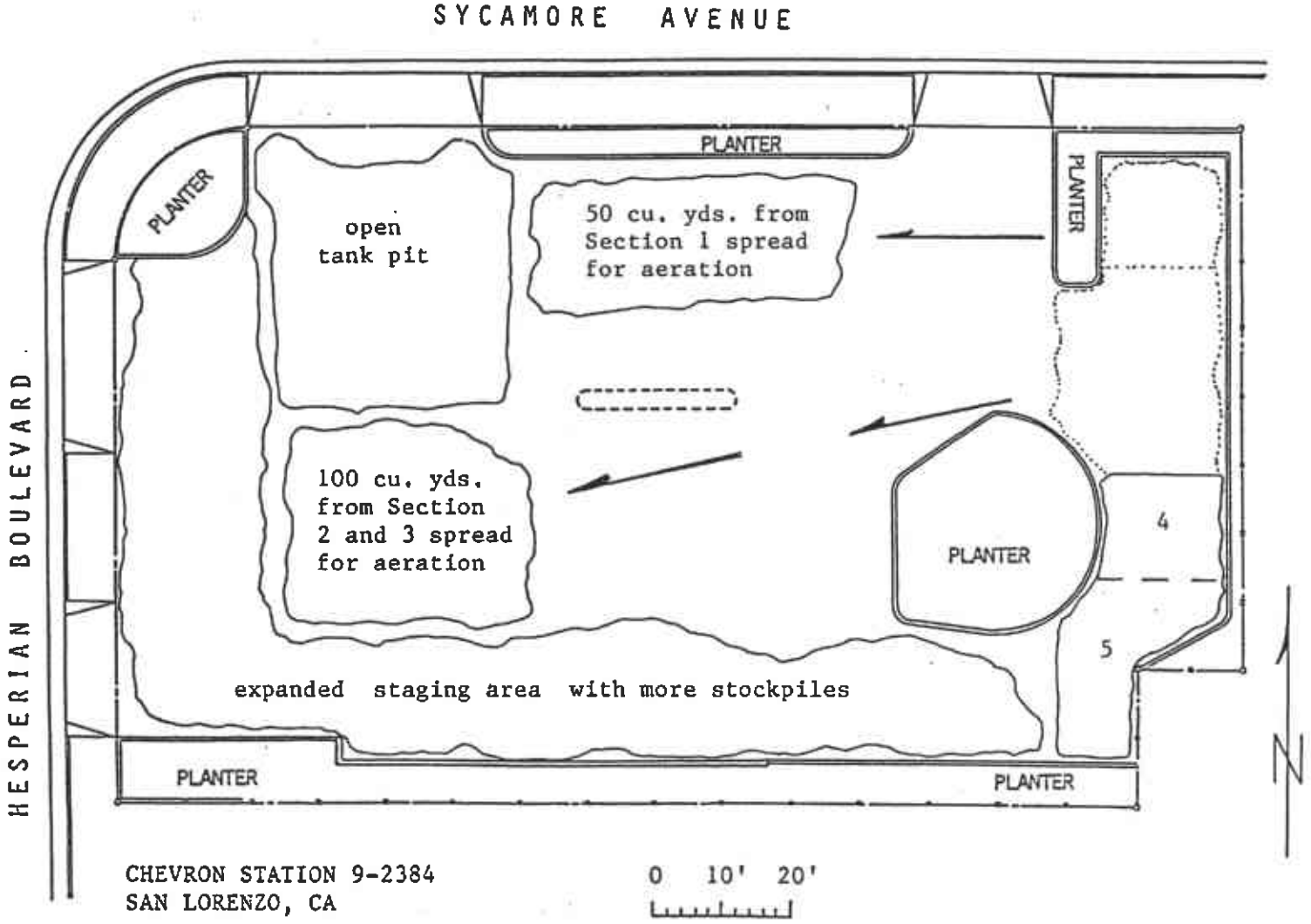
Our representative observed that all previously aerating material (soil spread in the two large aeration lifts) had been moved into a much expanded staging area. The staging area now ran in a continuous "L" shape along the west and south sides of the property.

New soil from Section 1, Section 2, and Section 3 had been introduced to aeration. These materials had been spread in two small aeration lifts which stood to the south and west of the tank pit, respectively. This placement of the aerating soils had been suggested so that excavation of soil in the area of the south dispenser pump island would not interfere with aeration.

Our representative noted that groundwater which had been visible in the bottom of the open tank pit excavation at between fourteen and fourteen and a half feet (14.0' to 14.5') below grade had, apparently, receded.

VISIT N

September 30, 1991 / 910930-C-1



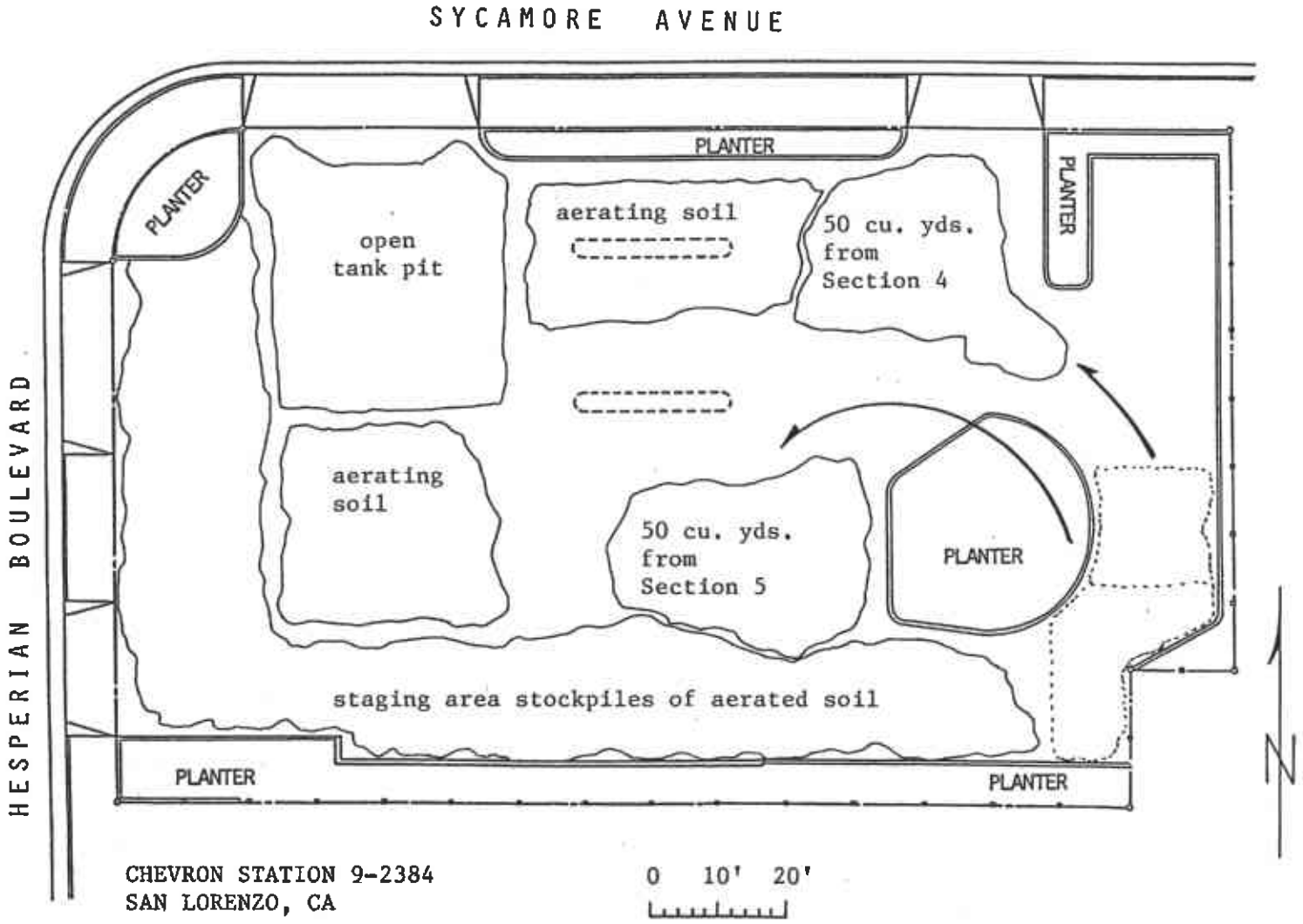
Visit O

October 3, 1991 / 911003-C-1

Our personnel returned to the site on Thursday, October 3, 1991 and noted that the contractor had tilled and agitated the soil to maximize aeration.

Materials from Sections 4 and Section 5 were introduced to aeration in accordance with the Chevron Work Plan and BAAQMD Regulation 8, Rule 40.

The area surrounding the southern dispenser pump island was kept clear of aeration lifts in preparation for additional excavation work in that area scheduled to begin on October 16, 1991.


SYCAMORE AVENUE
HESPERIAN BOULEVARD
PLANTER
PLANTER
PLANTER
PLANTER
PLANTER
PLANTER
open tank pit
aerating soil
50 cu. yds. from Section 4
aerating soil
50 cu. yds. from Section 5
staging area stockpiles of aerated soil
N
CHEVRON STATION 9-2384
SAN LORENZO, CA
0 10' 20'

Visit P

October 16, 1991 / 911016-C-1

On Wednesday, October 16, 1991, all currently aerating material was taken from the aeration lifts and added to the staging area. This extended the staging area further along the south edge of the property.

Excavation was undertaken to remove contaminated soil known to be present near the west end of the south dispenser pump island. Apparently contaminated material with a fuel odor and gray/green coloration was found between six feet below grade and fourteen feet below grade. This material gave off vapors that were measured at 350 to 500 ppm with a Gastech model 1314 combustible vapor meter.

An exploratory trench cut into the side of the tank pit at the middle of the east wall found the same gray/green material, but it only extended to a depth of between ten or ten and a half feet (10.0' to 10.5') below grade. This material gave off vapors measured at 100 to 150 ppm with the same combustible vapor meter.

Because there was no clear cut demarcation between more and less contaminated materials, it was decided that it would be best to collect samples that would define the area where over-excavation was needed according to contaminant concentration.

Sample #1 was collected at a depth of ten feet (10.0') below grade in the primary excavation which included the west end of the south dispenser pump island.

Sample #2 was collected from the same trench at a depth of fourteen feet (14.0') below grade and was identified as a capillary zone sample.

Sample #3 was collected at a depth of nine and a half feet (9.5') below grade from the exploratory trench which cut into the east wall of the tank pit.

Two BAAQMD stockpile composite samples were collected from the stockpile of soil generated by this excavation work. The stockpile was calculated to contain approximately 75 to 80 cubic yards of material.

Sample #1A-D was composed of four sample containers collected from the north half of the new stockpile.

Sample #2A-D was composed of four sample containers collected from the south half of the new stockpile.

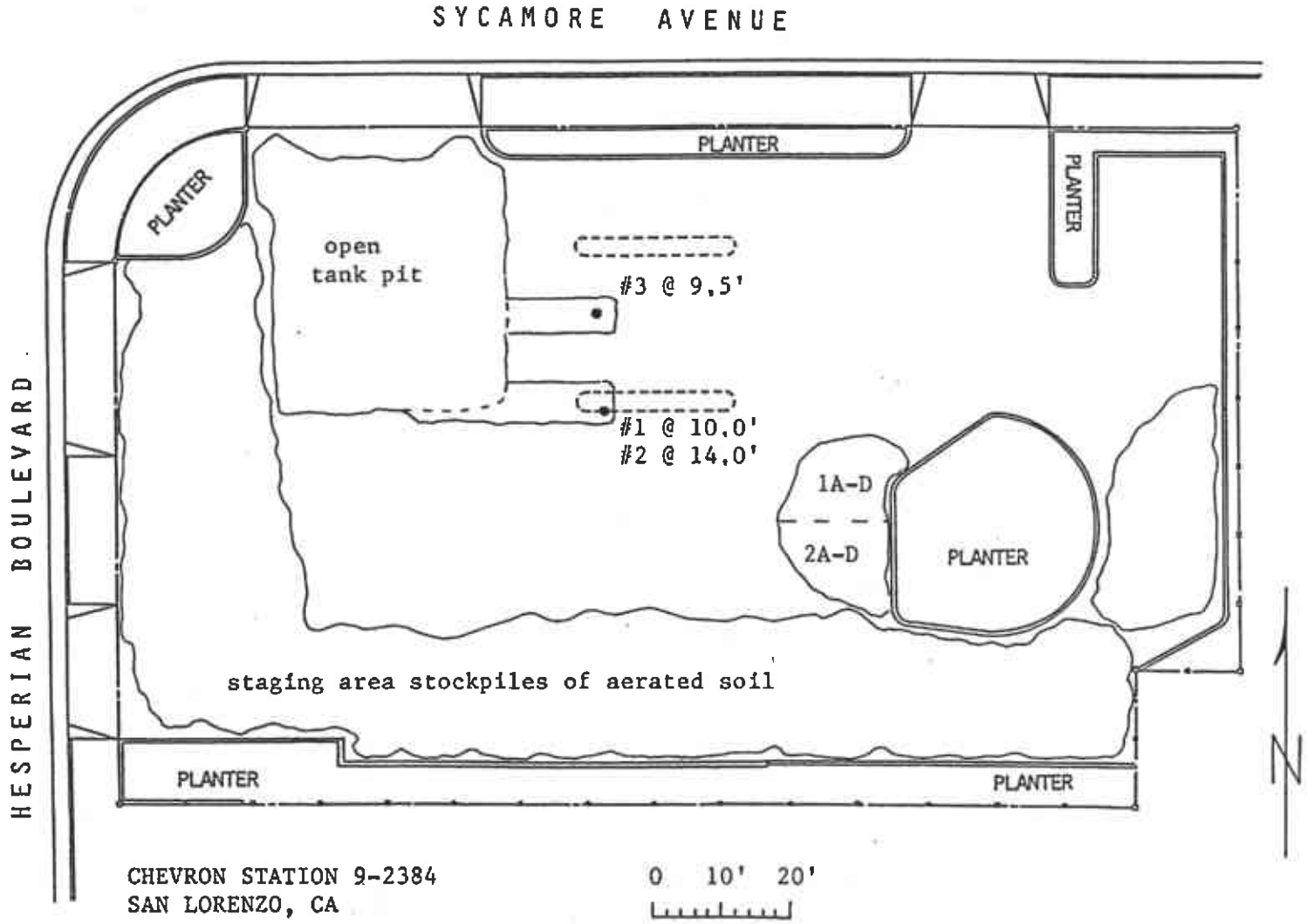
Having no wish to excavate acceptable materials or leave high levels of fuel contaminated soil in the ground, excavation was halted at this stage, pending the results of analysis of the samples.

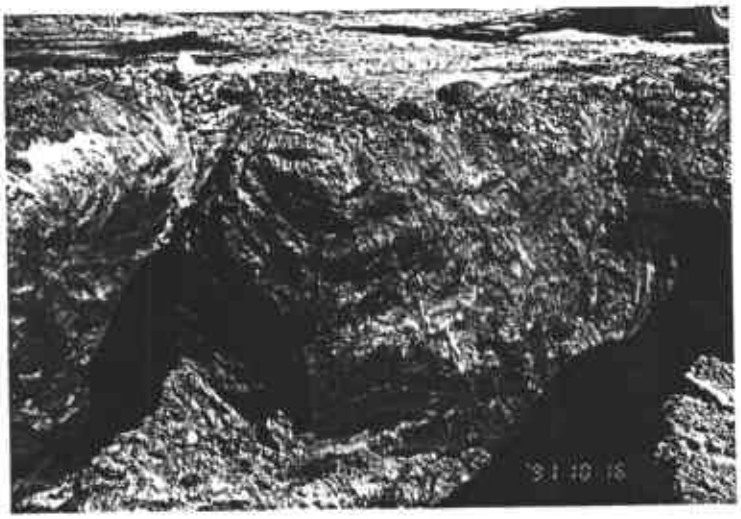
The samples were taken to Superior Precision Analytical, Inc. in Martinez on a five day turn around. The samples were signed over to the laboratory on a Chevron chain of custody. The Blaine Tech Services, Inc. project number was mistakenly given as San Lorenzo rather than 911016-C-1.

R.L. Stevens was scheduled to return to the site during the week of October 28, 1991 to complete the work once analytical results were obtained.

VISIT P

October 16, 1991 / 911016-C-1





Visit Q

November 1, 1991 / 911101-C-1

Background

A review was conducted of the analytical results obtained on the October 16, 1991/ Visit P samples. Directions to proceed with soil removal in the obviously affected areas were communicated to the contractor. Overexcavation would continue until it encountered conditions approximating those found at the point where sample #3 had been collected.

Plans were also made to collect RWQCB discrete stockpile samples from the soil in the staging area. Inspector Pamela Evans of the Alameda County Health Agency was informed in advance that Blaine Tech Services, Inc. wished to perform the collection of discrete samples on November 1, 1991. Ms. Evans replied that she did not expect to be able to be present at the site, but gave her approval for our personnel to proceed with the sampling per the RWQCB guidelines.

Visit Q

Our personnel met the excavator operator on the site on Friday, November 1, 1991. The work proceeded as shown on the accompanying Visit Q Diagram.

The contractor's excavation work proceeded slowly while our personnel turned their full attention to the collection of RWQCB discrete stockpile samples which had been scheduled to be collected on this date. Once collected, these samples would need to be promptly transported to the analytical laboratory in Martinez.

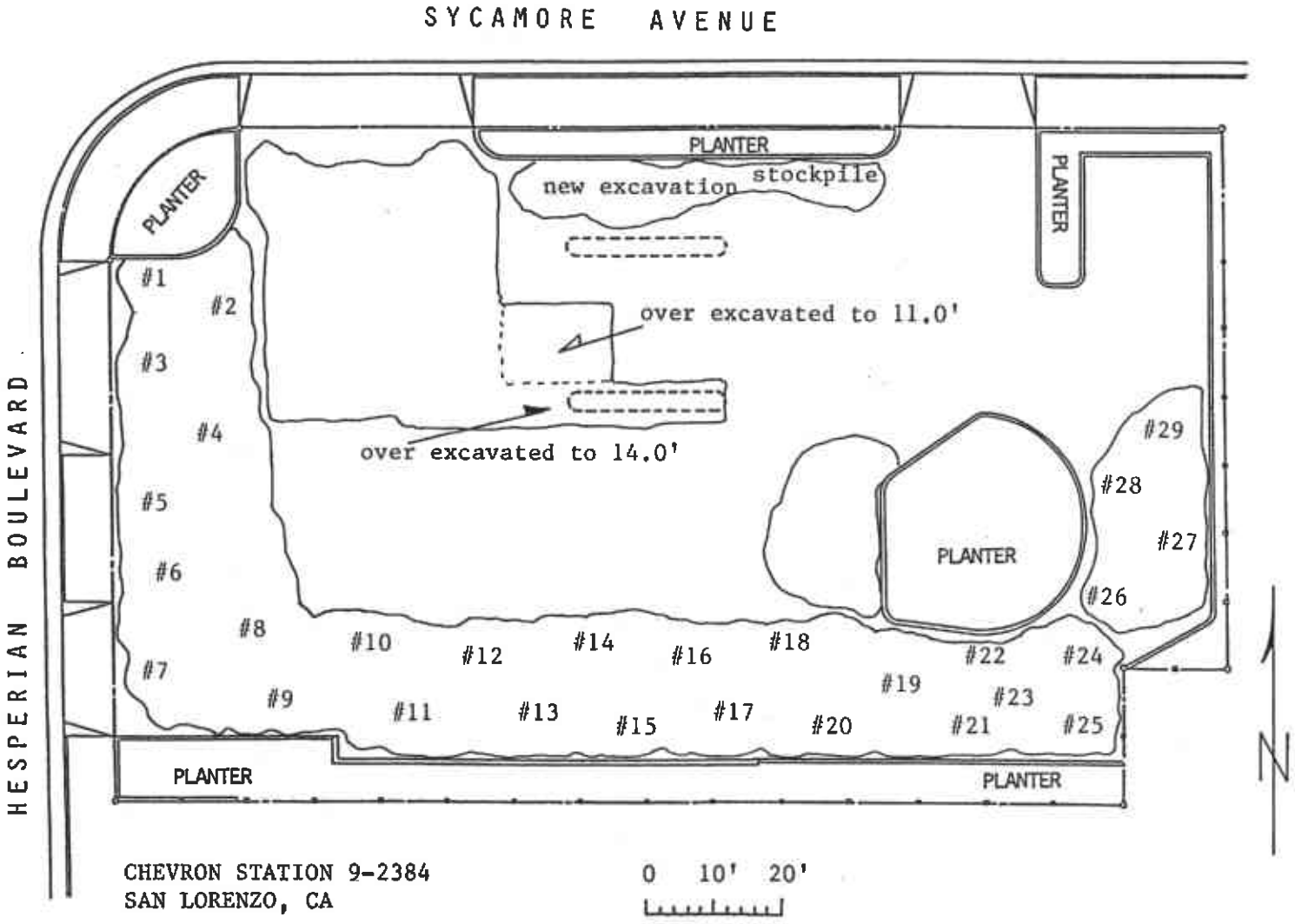
A total of 29 discrete soil samples were collected from the 550 to 600 cubic yards of aerated soil which had been stockpiled in the staging area as shown on the Visit Q Diagram.

Even after the time required to collect the RWQCB discrete soil characterization samples, the excavation work could not be judged to be complete on the basis of field observations. As a precaution, our representative collected three sidewall samples, but subsequently decided not to authorize their analyses. The decision to not analyze the three samples was based on the fact that the excavation had not been opened up to the point indicated by samples already taken and analyzed. In that the excavation contractor had not been able to complete the removal of all the soil that was thought to be affected by lost fuel, there was no basis for incurring the cost of unnecessary analyses.

Completion of the overexcavation work was scheduled to be resumed and completed on Tuesday, November 5, 1991.

VISIT Q

November 1, 1991 / 911101-C-1



Visit R

November 5, 1991 / 911105-C-1

Prior to commencing sample collecting work in the field, the Alameda County Health Agency was notified of our intention to conduct sampling on November 5, 1991.

Our personnel arrived at the site and observed the movement of the 75 cubic yard stockpile generated by additional excavation during Visit P/ 10-16-1991. This material was introduced to aeration and spread in a shallow lift.

The additional excavation around the south dispenser pump island continued with lateral enlargement of the former excavation by another 30 to 40 square feet and removal of soil down to the fourteen to fourteen and a half foot (14.0' to 14.5') nominal depth of groundwater. This amount of soil removal enlarged the excavation to a point where the sidewall soil now met the vapor and coloration criteria for collecting samples. Three confirming sidewall samples were obtained at the points depicted on the Visit R Diagram.

Sample #1 was collected at the east end of the additional excavation area at a depth of eleven feet (11.0') below grade.

Sample #2 was collected from the south side of the additional excavation area at a depth of eleven feet (11.0') below grade.

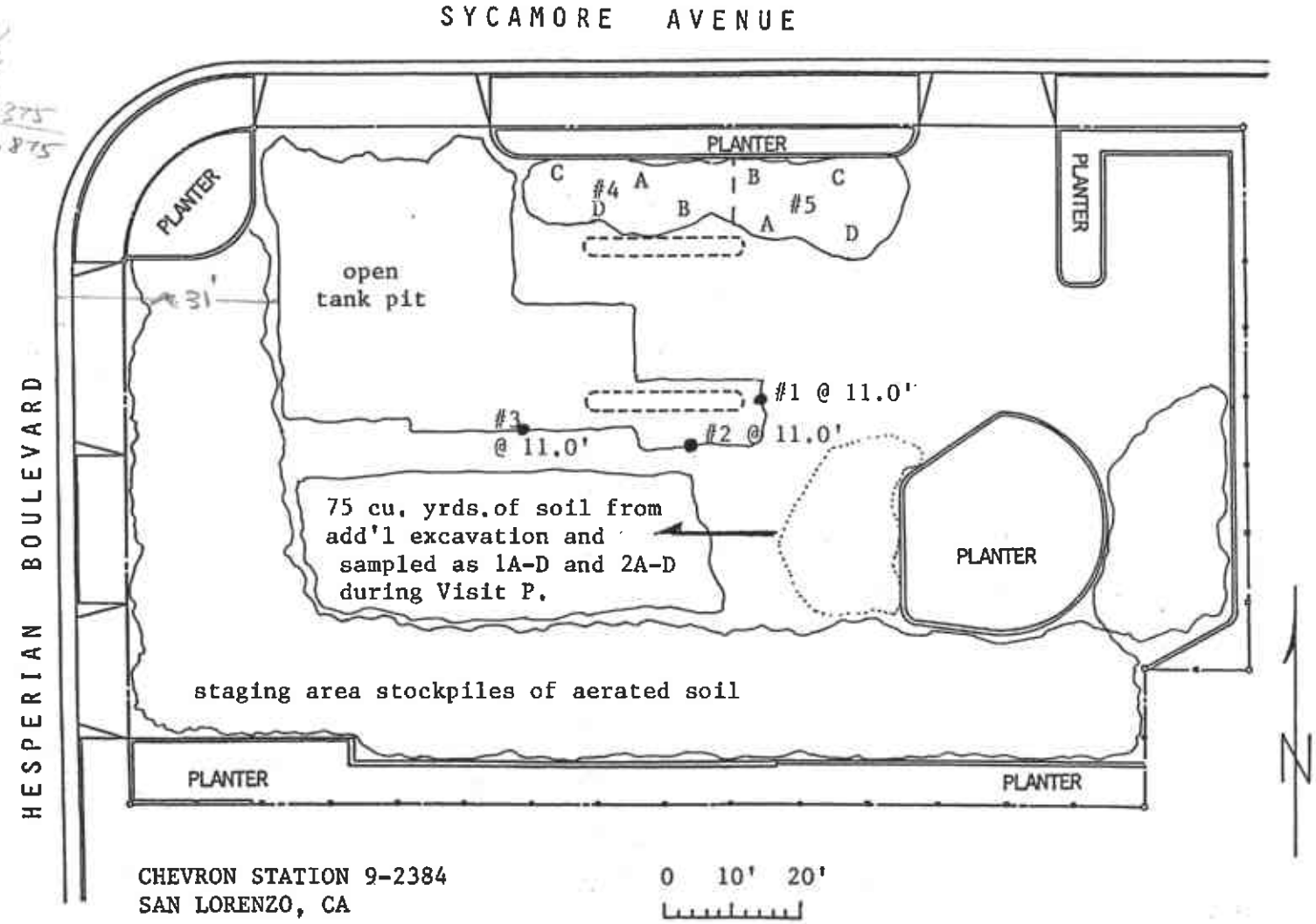
Sample #3 was collected from the south wall of the additional excavation area just at the point where the additional excavation moved out of the original tank pit. The sample was collected at a depth of eleven feet (11.0') below grade.

Sample #4A-D was a four part composite sample collected from the west end of the stockpile generated by the additional excavation which was begun on November 1, 1991/ Visit Q and completed during the current sampling event, 911105-C-1/ Visit R.

Sample #5A-D was another four part composite sample taken from the east end of the same overexcavation stockpile.

The samples were delivered to Superior Precision Analytical, Inc. in Martinez, California and signed over to the laboratory at 1235 hours on 11-5-1991 on a Chevron USA, Inc. chain of custody form.

There was renewed discussion of having the contractor place rock in the bottom of the tank pit prior to the introduction of any aerated soil.


SYCAMORE AVENUE
PLANTER
PLANTER
PLANTER
C
#4
A
B
C
D
B
#5
A
D
open
tank pit
31'
#1 @ 11.0'
#3
@ 11.0'
#2 @ 11.0'
75 cu. yrds. of soil from
add'l excavation and
sampled as 1A-D and 2A-D
during Visit P.
PLANTER
staging area stockpiles of aerated soil
HESPERIAN BOULEVARD
PLANTER
PLANTER
N
CHEVRON STATION 9-2384
SAN LORENZO, CA
0 10' 20'

Visit S

November 20, 1991 / 911120-C-1

Background

Following receipt and review of the analytical results for the November 5, 1991/ Visit R additional excavation samples, Blaine Tech Services, Inc. notified Pamela Evans at the Alameda County Health Agency that the project had proceeded to the point where backfilling could begin. This notification was given on November 15, 1991 and included mention of the fact that Chevron hoped to have the backfilling work performed on Monday, November 18, 1991.

At the same time, R.L. Stevens was asked to pull out and spread extremely thin the soil surrounding sample #20 from November 1, 1991/ Visit Q. Of the 29 discrete stockpile samples collected on that day, only this one had yielded unacceptable results. 25 to 35 cubic yards of material would be aerated prior to resampling. This material was to be spread along with the 75 cubic yards of additional excavation material soil already aerating.

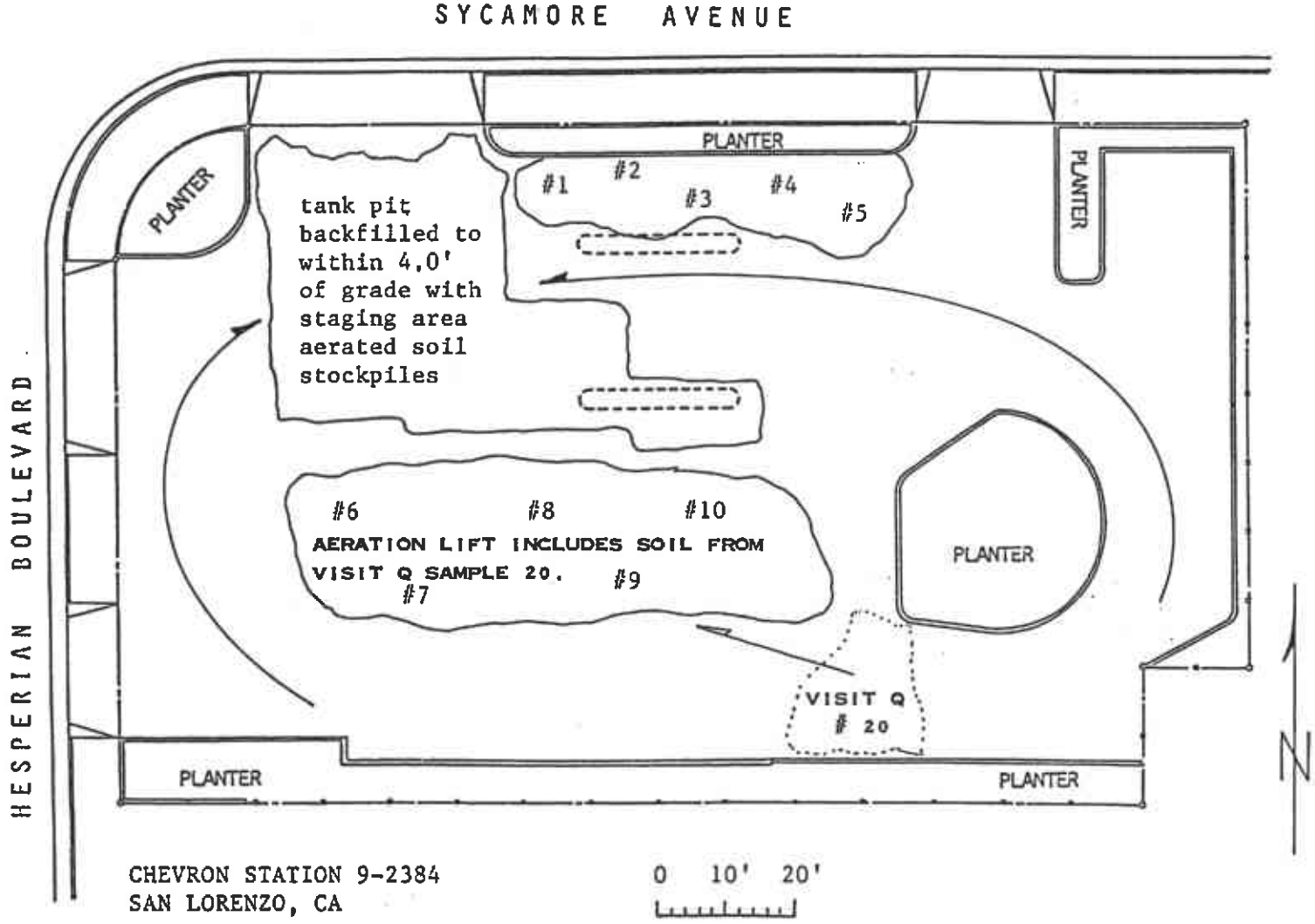
Visit S

Our personnel returned to the site on Wednesday, November 20, 1991.

They noted that the tank pit had been backfilled to within four or five feet (4.0' to 5.0') of grade with the soil which had been stockpiled in the staging area. We were informed by R.L. Stevens personnel that they expected to complete the backfilling process and bring the pit up to grade on November 27, 1991.

They also collected ten RWQCB discrete stockpile samples from the approximately 100 cubic yards of material spread in a thin aeration lift in the southwest quadrant of the site. This material was composed of soil from the additional excavation work conducted on October 16, 1991/ Visit P and by the addition of soil from the area of the stockpile that had produced sample #20 (with 220 ppm) from November 1, 1991/ Visit Q.

The samples were delivered to Superior Precision Analytical, Inc. in Martinez, California and signed over to the laboratory using a Chevron USA, Inc. chain of custody form.


SYCAMORE AVENUE
HESPERIAN BOULEVARD
PLANTER
PLANTER
PLANTER
PLANTER
PLANTER
PLANTER
#1
#2
#3
#4
#5
tank pit backfilled to within 4.0' of grade with staging area aerated soil stockpiles
#6
#8
#10
AERATION LIFT INCLUDES SOIL FROM VISIT Q SAMPLE 20.
#7
#9
VISIT Q # 20
N
CHEVRON STATION 9-2384
SAN LORENZO, CA
0 10' 20'

Follow up

A review was conducted of the analytical results obtained from the samples collected during Visit S/ November 20, 1991. The laboratory reported that nine of the ten samples registered no detection of TPH-G (gasoline), benzene, toluene, ethyl benzene or xylenes. One sample -- Sample #2 -- registered none detected for all analytes except xylenes which were detected at 0.005 ppm.

These values met the standards that the aeration process had been intended to achieve and the contractor was informed that the material from both the stockpile and the last remaining aeration lift could be used as backfill material and added to the tank pit.

TABLE OF SAMPLING LOCATIONS AND ANALYTICAL RESULTS

NOTE: Analytical results are reported in Parts Per Million or Parts Per Billion

I.D. GIVEN THIS SAMPLE AREA	SAMPLE DEPTH IN FT. BELOW GRADE	SAMPLING LOCATION DICTATED BY	TYPE & METHOD FOR THE SAMPLE OBTAINED	SAMPLE MATRIX	DATE SAMPLED	BTS CHAIN OF CUSTODY I.D.	BTS SAMPLE I.D.	NAME OF DOHS HMTL LABORATORY	LABORATORY SAMPLE I.D.	PPM TPH AS GAS	PPM BEN-ZENE	PPM TOL-UENE	PPM ETHYL BEN-ZENE	PPM XY-LENES
TANK PIT SAMPLES														
VISIT C														
#1	8-10.0	ELECTIVE	EXPLOR	SOIL	08/05/91	910805-G-1	#1	SUPERIOR	83641-1	8.0 *	0.54	0.012	0.029	0.016
#2	--	ELECTIVE	CAPILLAR	SOIL	08/05/91	910805-G-1	#2	SUPERIOR	83641-2	150	0.65	0.31	2.5	0.71
#3	--	ELECTIVE	CAPILLAR	SOIL	08/05/91	910805-G-1	#3	SUPERIOR	83641-3	2.0	ND	ND	0.006	0.008
#4	--	ELECTIVE	CAPILLAR	SOIL	08/05/91	910805-G-1	#4	SUPERIOR	83641-4	390	1.0	0.47	5.7	1.7
VISIT F														
#1	12.0	ELECTIVE	CONFIRM	SOIL	08/09/91	910809-G-1	#1	SUPERIOR	83682-1	1400	15	70	31	170
#2	5.0	ELECTIVE	CONFIRM	SOIL	08/09/91	910809-G-1	#2	SUPERIOR	83682-2	ND	ND	ND	ND	ND
#3	12.0	ELECTIVE	CONFIRM	SOIL	08/09/91	910809-G-1	#3	SUPERIOR	83682-3	47	0.071	0.12	0.84	2.7
#4	5.0	ELECTIVE	CONFIRM	SOIL	08/09/91	910809-G-1	#4	SUPERIOR	83682-4	ND	ND	ND	ND	ND
#5	11.0	ELECTIVE	CONFIRM	SOIL	08/09/91	910809-G-1	#5	SUPERIOR	83682-5	1.0 **	0.19	ND	ND	0.020
#6	4.0	ELECTIVE	CONFIRM	SOIL	08/09/91	910809-G-1	#6	SUPERIOR	83682-6	ND	ND	ND	ND	ND
VISIT P														
#1	10.0	ELECTIVE	CONFIRM	SOIL	10/16/91	911016-C-1	#1	SUPERIOR	84137-1	180	0.97	1.3	3.8	6.6
#2	14.0	ELECTIVE	CAPILLAR	SOIL	10/16/91	911016-C-1	#2	SUPERIOR	84137-2	32	0.86	0.092	1.0	2.0
#3	9.5	ELECTIVE	CONFIRM	SOIL	10/16/91	911016-C-1	#3	SUPERIOR	84137-3	2	0.40	0.015	0.034	0.057
VISIT R														
#1	11.0	ELECTIVE	CONFIRM	SOIL	11/05/91	911105-C-1	#1	SUPERIOR	84299-1	ND	ND	ND	ND	ND
#2	11.0	ELECTIVE	CONFIRM	SOIL	11/05/91	911105-C-1	#2	SUPERIOR	84299-2	ND	ND	ND	ND	ND
#3	11.0	ELECTIVE	CONFIRM	SOIL	11/05/91	911105-C-1	#3	SUPERIOR	84299-3	ND	ND	ND	ND	ND
STOCKPILE SAMPLES														
VISIT E														
#1A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#1A-D	SUPERIOR	83659-1	290	0.34	1.9	2.9	22
#2A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#2A-D	SUPERIOR	83659-2	240	0.074	0.41	1.8	13
#3A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#3A-D	SUPERIOR	83659-3	160	0.18	0.38	1.7	9.2
#4A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#4A-D	SUPERIOR	83659-4	610	ND	1.4	4.6	45
#5A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#5A-D	SUPERIOR	83659-5	200	ND	0.32	1.3	11
#6A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#6A-D	SUPERIOR	83659-6	43	0.006	0.13	0.32	2.1
#7A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#7A-D	SUPERIOR	83659-7	110	0.033	0.29	0.81	6.2
#8A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#8A-D	SUPERIOR	83659-8	250	0.27	1.4	3.2	18
#9A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#9A-D	SUPERIOR	83659-9	100	ND	0.50	0.93	6.2
#10A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#10A-D	SUPERIOR	83659-10	620	1.9	14	11	72
#11A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#11A-D	SUPERIOR	83659-11	57	ND	0.058	0.15	1.4
#12A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#12A-D	SUPERIOR	83659-12	610	1.5	12	11	67
#13A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#13A-D	SUPERIOR	83659-13	1300	2.4	53	28	190

Confirmatory soil samples collected from sidewalls of tank pit.

Confirmatory soil samples collected from overlow dispenser area

Second set of confirm. soil samples collected in dispenser area after further overex.

* Does not match typical gasoline pattern, in heavier hydrocarbon range.
** Does not match typical gasoline pattern.

Standard - The location conformed to established (professional or regulatory) definitions for the type of sample being collected. Example: a standard RWQCB interface sample.

LIA - The local implementing agency inspector chose a sampling location that was different from a standard (pre-defined) location.

Elective - Elective samples are not taken to comply with regulatory requirements, but to obtain information. Sampling locations may be chosen by the property owner, the contractor, a consultant, etc. The samples may or may not be analyzed.

TABLE OF SAMPLING LOCATIONS AND ANALYTICAL RESULTS

NOTE: Analytical results are reported in Parts Per Million or Parts Per Billion

I.D. GIVEN THIS SAMPLE AREA	SAMPLE DEPTH IN FT. BELOW GRADE	SAMPLING LOCATION DICTATED BY	TYPE & METHOD FOR THE SAMPLE OBTAINED	SAMPLE MATRIX	DATE SAMPLED	BTS CHAIN OF CUSTODY I.D.	BTS SAMPLE I.D.	NAME OF DOHS HMTL LABORATORY	LABORATORY SAMPLE I.D.	PPM TPH AS GAS	PPM BEN-ZENE	PPM TOL-UENE	PPM ETHYL BEN-ZENE	PPM XY-LENES
STOCKPILE SAMPLES continued														
VISIT L														
#1A-D	6-12"	ELECTIVE	BAAQMD-M	SOIL	09/11/91	910911-C-1	#1A-D	SUPERIOR	83929-1	ND	ND	ND	ND	0.008
VISIT P														
#1A-D	6-12"	STANDARD	BAAQMD-M	SOIL	10/16/91	911016-C-1	#1A-D	SUPERIOR	84152-1	ND	0.007	ND	0.012	0.063
#2A-D	6-12"	STANDARD	BAAQMD-M	SOIL	10/16/91	911016-C-1	#2A-D	SUPERIOR	84152-2	5.0	0.009	0.014	0.080	0.31
VISIT Q														
#1	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#1	SUPERIOR	12524-1	ND	ND	ND	ND	ND
#2	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#2	SUPERIOR	12524-2	ND	ND	ND	ND	ND
#3	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#3	SUPERIOR	12524-3	ND	ND	ND	ND	ND
#4	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#4	SUPERIOR	12524-4	ND	ND	ND	ND	ND
#5	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#5	SUPERIOR	12524-5	ND	ND	ND	ND	ND
#6	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#6	SUPERIOR	12524-6	ND	ND	ND	ND	ND
#7	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#7	SUPERIOR	12524-7	ND	ND	ND	ND	ND
#8	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#8	SUPERIOR	12524-8	ND	ND	ND	ND	ND
#9	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#9	SUPERIOR	12524-9	ND	ND	ND	ND	ND
#10	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#10	SUPERIOR	12524-10	ND	ND	ND	ND	ND
#11	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#11	SUPERIOR	12524-11	ND	ND	ND	ND	ND
#12	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#12	SUPERIOR	12524-12	ND	ND	ND	ND	ND
#13	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#13	SUPERIOR	12524-13	ND	ND	ND	ND	ND
#14	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#14	SUPERIOR	12524-14	ND	ND	ND	ND	ND
#15	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#15	SUPERIOR	12524-15	1.8	ND	ND	0.013	ND
#16	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#16	SUPERIOR	12524-16	ND	ND	ND	ND	ND
#17	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#17	SUPERIOR	12524-17	ND	ND	ND	ND	ND
#18	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#18	SUPERIOR	12524-18	ND	ND	ND	ND	ND
#19	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#19	SUPERIOR	12524-19	ND	ND	ND	ND	ND
#20	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#20	SUPERIOR	12524-20	220	0.044	ND	0.047	0.44
#21	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#21	SUPERIOR	12524-21	ND	ND	ND	ND	ND
#22	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#22	SUPERIOR	12524-22	ND	ND	ND	ND	ND
#23	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#23	SUPERIOR	12524-23	ND	ND	ND	ND	ND
#24	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#24	SUPERIOR	12524-24	ND	ND	ND	ND	ND
#25	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#25	SUPERIOR	12524-25	ND	ND	ND	ND	ND
#26	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#26	SUPERIOR	12524-26	ND	ND	ND	ND	ND
#27	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#27	SUPERIOR	12524-27	ND	ND	ND	ND	ND
#28	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#28	SUPERIOR	12524-28	ND	ND	ND	ND	ND
#29	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#29	SUPERIOR	12524-29	ND	ND	ND	ND	ND
#30	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#30	SUPERIOR	12524-30-PLACED ON HOLD					
#31	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#31	SUPERIOR	12524-31-PLACED ON HOLD					
#32	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#32	SUPERIOR	12524-32-PLACED ON HOLD					

Standard - The location conformed to established (professional or regulatory) definitions for the type of sample being collected. Example: a standard RWQCB interface sample.

LIA - The local implementing agency inspector chose a sampling location that was different from a standard (pre-defined) location.

Elective - Elective samples are not taken to comply with regulatory requirements, but to obtain information. Sampling locations may be chosen by the property owner, the contractor, a consultant, etc. The samples may or may not be analyzed.

TABLE OF SAMPLING LOCATIONS AND ANALYTICAL RESULTS

NOTE: Analytical results are reported in Parts Per Million or Parts Per Billion

I.D. GIVEN THIS SAMPLE AREA	SAMPLE DEPTH IN FT. BELOW GRADE	SAMPLING LOCATION DICTATED BY	TYPE & METHOD FOR THE SAMPLE OBTAINED	SAMPLE MATRIX	DATE SAMPLED	BTS CHAIN OF CUSTODY I.D.	BTS SAMPLE I.D.	NAME OF DOHS HMTL LABORATORY	LABORATORY SAMPLE I.D.	PPM TPH AS GAS	PPM BEN-ZENE	PPM TOL-UENE	PPM ETHYL BEN-ZENE	PPM XY-LENES
STOCKPILE SAMPLES continued														
VISIT R														
#4A-D	6-12"	STANDARD	BAAQMD-M	SOIL	11/05/91	911105-C-1	#4A-D	SUPERIOR	84299-4	ND	ND	ND	ND	ND
#5A-D	6-12"	STANDARD	BAAQMD-M	SOIL	11/05/91	911105-C-1	#5A-D	SUPERIOR	84299-5	ND	ND	ND	ND	0.006
VISIT S														
#1	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#1	SUPERIOR	84430-1	ND	ND	ND	ND	ND
#2	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#2	SUPERIOR	84430-2	ND	ND	ND	ND	0.005
#3	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#3	SUPERIOR	84430-3	ND	ND	ND	ND	ND
#4	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#4	SUPERIOR	84430-4	ND	ND	ND	ND	ND
#5	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#5	SUPERIOR	84430-5	ND	ND	ND	ND	ND
#6	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#6	SUPERIOR	84430-6	ND	ND	ND	ND	ND
#7	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#7	SUPERIOR	84430-7	ND	ND	ND	ND	ND
#8	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#8	SUPERIOR	84430-8	ND	ND	ND	ND	ND
#9	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#9	SUPERIOR	84430-9	ND	ND	ND	ND	ND
#10	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#10	SUPERIOR	84430-10	ND	ND	ND	ND	ND

Standard - The location conformed to established (professional or regulatory) definitions for the type of sample being collected. Example: a standard RWQCB interface sample.

LIA - The local implementing agency inspector chose a sampling location that was different from a standard (pre-defined) location.

Elective - Elective samples are not taken to comply with regulatory requirements, but to obtain information. Sampling locations may be chosen by the property owner, the contractor, a consultant, etc. The samples may or may not be analyzed.

SAMPLING METHODOLOGIES

Specific methods used on this project

Elective Exploratory Samples: This type of sampling employs the same sample collection and handling procedures as are used in standard RWQCB interface sampling, but soil is typically obtained at a greater depth or from a position that is laterally offset from the interface location.

Elective Confirming Samples Following Additional Excavation: In cases where, as a precaution, excavation is continued in order to remove soil which may be contaminated, it is customary to obtain one or more samples of the soil at the furthest extent of excavation. These samples provide information on the condition of the soil remaining after the excavation effort was completed.

As the precautionary excavation is completed, the backhoe is used to dig up soil representative of the material which remains in the bottom of the pit. The sample material is collected and handled according to the same procedures used with other backhoe assisted sampling methodologies and duplicates RWQCB standard interface sampling in all respects except the depth at which the soil is obtained.

Capillary Zone Soil Sample: The capillary zone is the soil horizon immediately above the surface of standing groundwater into which moisture is drawn by capillary action. Capillary zone sampling is most often requested in open pit and open trench situations where lost petroleum products are evident or suspected. In these cases, it is reasoned that a sample of the capillary zone will demonstrate whether or not fuel has been drawn up into the soil above the groundwater and, thereby, provide a rough indication of the volume and duration of the lost fuel condition.

Engineers of the Region 2 RWQCB staff have specified the correct sampling area as being from zero to six inches above the surface of the standing perched water and no more than twelve inches back into the native soil from the lateral backfill/native soil interface.

There are two weaknesses which tend to invalidate capillary zone sampling on the basis of inconsistent results. First, is the difficulty encountered in locating the true surface of the perched water above which the capillary zone resides. The removal of the tank and backfill material tends to artificially lower the water in the immediate vicinity of the tank pit below the true standing water level and mislead observers attempting to evaluate where the capillary zone is located. Second, the zone itself is a narrow horizon which is bordered on the top and bottom by soil which would not be expected to contain nearly the concentration of fuel hydrocarbons as the capillary zone proper. Collecting the correct material is complicated by conditions at the site which usually consist of a broad excavation, with vertical walls descending into a water filled pit. Because of these conditions, direct approach to the sampling area is difficult, dangerous, or impossible.

Assuming that the true and original surface of the perched water can be determined, samples can be safely obtained by one of the following methods. The backhoe bucket can be used to dig up a segment of the pit wall that contains the capillary zone and bring it up for inspection and sampling. An alternative method is to use sections of light weight drill rod and a drive shoe which contains a brass sample liner. This train can be extended across the pit, positioned, and used to drive an undisturbed soil sample.

Stockpile Survey (Modified BAAQMD Protocol): This sampling follows a survey pattern, but uses a modified BAAQMD protocol for sampling stockpiles of material that have been newly removed from a tank pit excavation. This protocol calls for a discrete sample container to be collected for every 12.5 cubic yards of material. The survey includes opposite sides of the stockpile. Strict observance of the BAAQMD protocol (for purposes of evaluating the levels of fuel vapor likely to be discharged from a stockpile) calls for inclusion of the surface material in the brass liner which is driven into the pile at a right angle (to the angle of repose) until the liner is full. Unless specifically asked to follow the BAAQMD protocol, our personnel routinely modify the procedure to exclude the surface soil and collect soil from a depth of eight to eighteen inches. While this prejudices the sample in the direction of yielding higher results than would a strict BAAQMD sample, it is more representative of the levels of fuel hydrocarbons present in the soil and is not likely to mislead the client or contractor into offhauling or backfilling with soil stockpiles that are relatively clean at the surface, but unacceptably contaminated through the remainder of their volume.

Discrete Stockpile Samples: Requests for discrete stockpile samples usually refer to the RWQCB soil characterization protocol which is described in an RWQCB document titled: --Draft--DCW--1/10/90--Stockpile Soil Characterization Procedure. The protocol is used to evaluate whether soil meets standards of suitability that will allow it to be used as backfill. Note that this protocol is not an alternative to the BAAQMD stockpile sampling protocol. It is a different procedure, with a different purpose, issued by a different regulatory agency. BAAQMD samples are typically taken to evaluate air pollution considerations and determine what volume of soil can be lawfully aerated. The RWQCB soil characterization protocol would normally be used after aeration is complete and the soil is ready to be used as backfill.

The RWQCB document describes two alternative approaches. The first and simplest approach calls for the collection of one discrete sample from each twenty cubic yards of material (1:20 cu. yds.) Samples are collected from a grid square containing 20 cu. yds. that has been further divided into alphabetical 10 cu. yd. quadrants. The second approach allows for the collection of a reduced number of discrete samples when a sampling plan is used that employs specific statistical procedures to evaluate the soil.

Sample Containers

Our firm uses new sample containers of the type specified by either EPA or the RWQCB for the collection of samples at sites where underground storage tanks are involved. Soil samples for volatile, semivolatile and nonvolatile analyses are all collected in properly prepared new brass liners which are 2 inches in diameter by 4 inches in length. Closure is accomplished with press fit plastic end caps which are fitted to the open ends of brass tube liners after a sheet of aluminum foil is wrapped over the exposed sample material. No preservative other than cold storage is used on samples captured in sample containers of this type.

Sample Handling Procedures

Solid sample material is captured by advancing the liner into the soil. This may be done by pushing the liner into soft soils or by containing the liner in a drive shoe which can be advanced and then retracted by means of a slide hammer. The open ends of the sample liner are covered with aluminum foil and plastic end caps. The brass liner is then labeled with the appropriate identification numbers which specify the sampling activity designation number, sample collection area, depth etc. that apply to that particular sample. The sample liner is then placed in an ice chest which contains pre-frozen blocks of an inert ice substitute such as Blue Ice or Super Ice.

Sample Designations

All sample containers are identified with both a sampling event number and a discrete sample identification number. Please note that the sampling event number is the number that appears on our chain of custody. It is roughly equivalent to a job number, but applies only to work done on a particular day of the year rather than spanning several days as jobs and projects often do. This is followed by the sample I.D. number which is usually a simple number such as #1, #2, #3.

Chain of Custody

Samples are continuously maintained in either a chilled ice chest, refrigerator, or freezer from the time of collection until acceptance by the State certified Hazardous Materials Testing Laboratory selected to perform the analytical procedures. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date, and signature of person releasing the samples followed by the time, date and signature of the person accepting custody of the samples).

Laboratory Identification Numbers

Following receipt of the samples and completion of the Chain of Custody form, the laboratory then assigns their own identification numbers to the samples. Different laboratories use different numbering systems and, according to their own internal conventions, may or may not assign sequential numbers to samples which are placed on temporary "hold", pending the results of other analyses. Laboratory identification numbers (if assigned and available) are included in the TABLE, and will be found on the certified analytical report by the analytical laboratory.

Certified Analytical Report

The certified analytical report (CAR) generated by the laboratory is the official document in which they issue their findings. The Results of Analyses section of the TABLE OF SAMPLING LOCATIONS AND ANALYTICAL RESULTS should correspond exactly with the laboratory's CAR. Any discrepancy between analytical values should be decided in favor of the CAR, for while it may, itself, be in error with regard to a particular number, the CAR remains the recognized document until such time as it is amended with a corrected report.

The certified analytical report should also be reviewed when samples are taken from below waste oil tanks as any detection of the EPA halogenated and purgeable aromatic compounds may be grounds for requiring further action. Also the TABLE OF SAMPLING LOCATIONS AND ANALYTICAL RESULTS is insufficiently spacious to allow anything more than a simple listing of the detected compounds. The TABLE does not include such information as the detection limits at which other compounds were not detected. The full text of the laboratory report will be found in the Analytical Appendix.

Professional Review

Blaine Tech Services, Inc. employs the services of outside professional engineering and engineering geological firms to conduct independent evaluations and review of the technical methods and procedures used by Blaine Tech Services, Inc. in the conduct of its strictly technical work. The scope of these professional reviews is limited to evaluating the adequacy and repeatability of the technical procedures performed by Blaine Tech Services, Inc. personnel and does not extend to making evaluations or recommendations about the general condition of the site.

Reportage

Submission to the Regional Water Quality Control Board and the local implementing agency should include copies of the sampling report, the chain of custody, and the certified analytical report issued by the Hazardous Materials Testing Laboratory. The property owner should attach a cover letter and submit all documents together in a package.

The following addresses have been listed here for your convenience:

Water Quality Control Board
San Francisco Bay Region
1800 Harrison Street
Room 700
Oakland, CA 94612
ATTN: Lester Feldman

Alameda County Health Agency
Hazardous Materials Management
80 Swan Way, Room 200
Oakland, CA 94621
ATTN: Pamela Evans

Please call if we can be of any further assistance.

Richard C. Blaine

Independent professional review:

Jeremy Wire
Engineering Geologist, EG-71

RCB/dmp

ANALYTICAL APPENDIX

Supporting documents

CHAIN OF CUSTODY FORMS
CERTIFIED ANALYTICAL REPORTS
TABLE OF SAMPLING LOCATIONS AND ANALYTICAL RESULTS

BLAINE TECH SERVICES INC.

1370 TULLY ROAD., SUITE 505
SAN JOSE, CA 95122
(408) 995 5535

CHAIN OF CUSTODY 910805-G-1

CLIENT Chevron USA

SITE Chevron #92384

15526 Hesperian Blvd.

San Lorenzo, CA

C = COMPOSITE ALL CONTAINERS

CONDUCT ANALYSIS TO DETECT

LAB Superior DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA
☐ LIA
☐ OTHER

☒ RWQCB REGION II

SPECIAL INSTRUCTIONS

#544-4730

Contact Nancy Wukelich

SAMPLE I.D.	MATRIX S = SOIL W = H2O	CONTAINERS TOTAL	Btex	TPH-G, BTXE	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
#1	S	1	X	✓		24 hrs		
#2	S	1	X	✓		" "		
#3	S	1	X	✓		" "		
#4	S	1	X	✓		" "		

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
	8/5/91	1430	Charles M Dunn	24 hours

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Charles M Dunn	8-5-91	1545			
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
				08/05/91	1545

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

Superior Precision Analytical, Inc.
825 Arnold Drive, Ste. 114 ▪ Martinez, California 94553 ▪ (415) 229-1512 / fax (415) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 83641
CLIENT: Blaine Tech Services, Inc.
CLIENT JOB NO.: 910805-G-1

DATE RECEIVED: 08/05/91
DATE REPORTED: 08/06/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
83641- 1	1	08/05/91	08/06/91
83641- 2	2	08/05/91	08/06/91
83641- 3	3	08/05/91	08/06/91
83641- 4	4	08/05/91	08/06/91

Laboratory Number:		83641 1	83641 2	83641 3	83641 4
ANALYTE LIST		Amounts/Quantitation Limits (mg/Kg)			
OIL AND GREASE:		NA	NA	NA	NA
TPH/GASOLINE RANGE:	*	8	150	2	390
TPH/DIESEL RANGE:		NA	NA	NA	NA
BENZENE:		0.54	0.65	ND<0.005	1.0
TOLUENE:		0.012	0.31	ND<0.005	0.47
ETHYL BENZENE:		0.029	2.5	0.006	5.7
XYLENES:		0.016	0.71	0.008	1.7

Superior Precision Analytical, Inc.
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C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 83641

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/Kg = part per million (ppm)
* = Does Not Match Typical Gasoline Pattern, In Heavier Hydrocarbon Range.

OIL AND GREASE ANALYSIS By Standard Methods Method 503E:
Minimum Detection Limit in Soil: 50mg/Kg

Modified EPA-SW846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 1mg/Kg
Standard Reference: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/Kg
Standard Reference: 06/26/91

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/Kg
Standard Reference: 07/08/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	06/26/91	200 ng	86/101	17	70-130
Benzene	07/08/91	200 ng	106/96	10	70-130
Toluene	07/08/91	200 ng	102/94	8	70-130
Ethyl Benzene	07/08/91	200 ng	100/93	7	70-130
Total Xylene	07/08/91	200 ng	96/90	7	70-130

Richard Srna, Ph.D.
Laboratory Director

BLAINE TECH SERVICES INC.

1370 TULLY ROAD., SUITE 505
SAN JOSE, CA 95122
(408) 995 5535

CHAIN OF CUSTODY 910807-G-1

CLIENT Chevron USA

SITE Chevron #92384
15526 Hesperian Blvd
San Lorenzo, CA

CONDUCT ANALYSIS TO DETECT

LAB Superior DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ LIA ☐ OTHER ☒ RWQCB REGION II

SPECIAL INSTRUCTIONS

#544-4730
contact
Nancy Vukelich - Chevron
Elaine Holland - BTS

SAMPLE I.D.	MATRIX S = SOIL W = H2O	CONTAINERS TOTAL	Brass	C = COMPOSITE ALL CONTAINERS	TPH-G, BTXE	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
#1 (A-D)	S	4	X	C	✓		ASAP		
#2 (A-D)	S	4	X	C	✓		" "		
#3 (A-D)	S	4	X	C	✓		" "		
#4 (A-D)	S	4	X	C	✓		" "		
#5 (A-D)	S	4	X	C	✓		" "		
#6 (A-D)	S	4	X	C	✓		" "		
#7 (A-D)	S	4	X	C	✓		" "		
#8 (A-D)	S	4	X	C	✓		" "		
#9 (A-D)	S	4	X	C	✓		" "		
#10 (A-D)	S	4	X	C	✓		" "		

SAMPLING COMPLETED DATE 8-7-91 TIME 1500

SAMPLING PERFORMED BY Charles M Dunn

RESULTS NEEDED NO LATER THAN ASAP

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Charles M Dunn	8-7-91	1600			
				8/7/91	1600

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

BLAINE TECH SERVICES INC.

1370 TULLY ROAD., SUITE 505
SAN JOSE, CA 95122
(408) 995 5535

CHAIN OF CUSTODY 910807-G-1

CLIENT Chevron USA

SITE Chevron #92384
15526 Hesperian Blvd
San Lorenzo, CA

CONDUCT ANALYSIS TO DETECT

LAB Superior DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ LIA ☐ OTHER ☒ RWQCB REGION II

SPECIAL INSTRUCTIONS
#544-4730
Contact
Nancy Vukelich - Chevron
Elaine Holland - BTS

SAMPLE I.D.	MATRIX S = SOIL W = H2O	CONTAINERS TOTAL	Brass	C = COMPOSITE ALL CONTAINERS	TPH-G, BTXE	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
#11 (A-D)	S	4	X	C	✓		ASAP		
#12 (A-D)	S	4	X	C	✓		" "		
#13 (A-D)	S	4	X	C	✓		" "		

SAMPLING COMPLETED DATE 8-7-91 TIME 1500

SAMPLING PERFORMED BY Charles McGraw

RESULTS NEEDED NO LATER THAN ASAP

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Charles McGraw	8-7-91	1600			
				08/07/91	1600

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

Superior Precision Analytical, Inc.
825 Arnold Drive, Ste. 114 • Martinez, California 94553 • (415) 229-1512 / fax (415) 229-1526

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 83659
CLIENT: Blaine Tech Services, Inc.
CLIENT JOB NO.: 910807-G-1

DATE RECEIVED: 08/07/91
DATE REPORTED: 08/08/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
83659- 1	1(A-D)	08/07/91	08/07/91
83659- 2	2(A-D)	08/07/91	08/07/91
83659- 3	3(A-D)	08/07/91	08/07/91
83659- 4	4(A-D)	08/07/91	08/07/91
83659- 5	5(A-D)	08/07/91	08/07/91
83659- 6	6(A-D)	08/07/91	08/07/91
83659- 7	7(A-D)	08/07/91	08/07/91
83659- 8	8(A-D)	08/07/91	08/07/91
83659- 9	9(A-D)	08/07/91	08/07/91
83659-10	10(A-D)	08/07/91	08/07/91

Laboratory Number:	83659 1	83659 2	83659 3	83659 4	83659 5
ANALYTE LIST	Amounts/Quantitation Limits (mg/Kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	290	240	160	610	200
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	0.34	0.074	0.18	ND<0.12	ND<0.12
TOLUENE:	1.9	0.41	0.38	1.4	0.32
ETHYL BENZENE:	2.9	1.8	1.7	4.6	1.3
XYLENES:	22	13	9.2	45	11

Laboratory Number:	83659 6	83659 7	83659 8	83659 9	83659 10
ANALYTE LIST	Amounts/Quantitation Limits (mg/Kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	43	110	250	100	620
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	0.006	0.033	0.27	ND<0.12	1.9
TOLUENE:	0.13	0.29	1.4	0.50	14
ETHYL BENZENE:	0.32	0.81	3.2	0.93	11
XYLENES:	2.1	6.2	18	6.2	72

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 83659
CLIENT: Blaine Tech Services, Inc.
CLIENT JOB NO.: 910807-G-1

DATE RECEIVED: 08/07/91
DATE REPORTED: 08/08/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
83659-11	11(A-D)	08/07/91	08/07/91
83659-12	12(A-D)	08/07/91	08/07/91
83659-13	13(A-D)	08/07/91	08/07/91

Laboratory Number:	83659 11	83659 12	83659 13
ANALYTE LIST	Amounts/Quantitation Limits (mg/Kg)		
OIL AND GREASE:	NA	NA	NA
TPH/GASOLINE RANGE:	57	610	1300
TPH/DIESEL RANGE:	NA	NA	NA
BENZENE:	ND<0.030	1.5	2.4
TOLUENE:	0.058	12	53
ETHYL BENZENE:	0.15	11	28
XYLENES:	1.4	67	190

Superior Precision Analytical, Inc.
825 Arnold Drive, Ste. 114 • Martinez, California 94553 • (415) 229-1512 / fax (415) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 83659

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/kg = part per million (ppm)

OIL AND GREASE ANALYSIS By Standard Methods Method 503E:
Minimum Detection Limit in Soil: 50mg/kg

Modified EPA-SW846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 1mg/kg
Standard Reference: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg
Standard Reference: 06/26/91

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg
Standard Reference: 07/08/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	06/26/91	200 ng	88/93	5	70-130
Benzene	07/08/91	200 ng	99/87	13	70-130
Toluene	07/08/91	200 ng	100/90	11	70-130
Ethyl Benzene	07/08/91	200 ng	102/92	10	70-130
Total Xylene	07/08/91	200 ng	106/99	7	70-130

Richard Srna, Ph.D.
Laboratory Director

BLAINE TECH SERVICES INC.

1370 TULLY ROAD., SUITE 505
SAN JOSE, CA 95122
(408) 995 5535

CHAIN OF CUSTODY: 910809-G-1

CLIENT: Chevron USA

SITE: CHEVRON # 92384
15526 Hesperian
San Lorenzo, CA

CONDUCT ANALYSIS TO DETECT: TPH-G, BTXE

LAB: SUPERIOR   DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- ☐ EPA
- ☐ LIA
- ☐ OTHER
- ☒ RWQCB REGION #

SPECIAL INSTRUCTIONS

Release # 544-4730
CHEVRON USA
Nancy Vukelich

SAMPLE I.D.	MATRIX (S = SOIL, W = H2O)	CONTAINERS TOTAL	Brass	C = COMPOSITE ALL CONTAINERS	TPH-G, BTXE	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
#1	S	1	x		✓		Routine		
#2	S	1	x		✓		" "		
#3	S	1	x		✓		" "		
#4	S	1	x		✓		" "		
#5	S	1	x		✓		" "		
#6	S	1	x		✓		" "		

SAMPLING COMPLETED: DATE 8/9/91 TIME 1030
SAMPLING PERFORMED BY: Charles McGlown
RESULTS NEEDED NO LATER THAN: Routine

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Charles McGlown	8/9/91	1300	Brenda L. Olin	8/09/91	13:00

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

Superior Precision Analytical, Inc.
825 Arnold Drive, Ste. 114 ▪ Martinez, California 94553 ▪ (415) 229-1512 / fax (415) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 83682
CLIENT: Blaine Tech Services, Inc.
CLIENT JOB NO.: 910809-G-1

DATE RECEIVED: 08/09/91
DATE REPORTED: 08/15/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
83682- 1	#1	08/09/91	08/13/91
83682- 2	#2	08/09/91	08/13/91
83682- 3	#3	08/09/91	08/13/91
83682- 4	#4	08/09/91	08/14/91
83682- 5	#5	08/09/91	08/13/91
83682- 6	#6	08/09/91	08/13/91

Laboratory Number:	83682 1	83682 2	83682 3	83682 4	83682 5
ANALYTE LIST	Amounts/Quantitation Limits (mg/Kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	1400	ND <1	47	ND <1	* 1
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	15	ND<.005	0.071	ND<.005	0.19
TOLUENE:	70	ND<.005	0.12	ND<.005	ND<.005
ETHYL BENZENE:	31	ND<.005	0.84	ND<.005	ND<.005
XYLENES:	170	ND<.005	2.7	ND<.005	0.020

Laboratory Number:	83682 6
ANALYTE LIST	Amounts/Quantitation Limits (mg/Kg)
OIL AND GREASE:	NA
TPH/GASOLINE RANGE:	ND <1
TPH/DIESEL RANGE:	NA
BENZENE:	ND<.005
TOLUENE:	ND<.005
ETHYL BENZENE:	ND<.005
XYLENES:	ND<.005

Superior Precision Analytical, Inc.
825 Arnold Drive, Ste. 114 ▪ Martinez, California 94553 ▪ (415) 229-1512 / fax (415) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 83682

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/Kg = part per million (ppm)
* = Does Not Match Typical Gasoline Pattern.

OIL AND GREASE ANALYSIS By Standard Methods Method 503E:
Minimum Detection Limit in Soil: 50mg/Kg

Modified EPA-SW846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 1mg/Kg
Standard Reference: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/Kg
Standard Reference: 06/26/91

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/Kg
Standard Reference: 07/08/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	06/26/91	200 ng	115/97	17	70-130
Benzene	07/08/91	200 ng	85/86	1	70-130
Toluene	07/08/91	200 ng	85/85	0	70-130
Ethyl Benzene	07/08/91	200 ng	89/91	2	70-130
Total Xylene	07/08/91	200 ng	95/97	2	70-130

Richard Srna, Ph.D.
(for)
Laboratory Director

Fax copy of Lab Report and COC to Chevron Contact: ☑ Yes ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: San Leandro Q
Facility Address: Hesperian & Sky Ranch
Consultant Project Number: 910911-C1
Consultant Name: Blaine Tech Services
Address:
Project Contact (Name): Elaine Holland
(Phone): (Fax Number):

Chevron Contact (Name): Nancy Ducklich
(Phone):
Laboratory Name: Superior Martinez
Laboratory Release Number:
Samples Collected by (Name):
Collection Date:
Signature:

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)					Remarks
W A-D		4	S	C	1330	N/A	Yes	X												composite

CC: Blaine Tech Services

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
[signature]	BTS	9-11-91 1455			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) [signature]		Date/Time 9/11/91 1455

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.DWG/03.91/HSH

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 83929
CLIENT: Blaine Tech Services, Inc.
CLIENT JOB NO.: 910911-C1

DATE RECEIVED: 09/11/91
DATE REPORTED: 09/19/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
83929- 1	#1A-D	09/10/91	09/18/91

Laboratory Number: 83929
1

ANALYTE LIST	Amounts/Quantitation Limits (mg/Kg)
OIL AND GREASE:	NA
TPH/GASOLINE RANGE:	ND <1
TPH/DIESEL RANGE:	NA
BENZENE:	ND<.005
TOLUENE:	ND<.005
ETHYL BENZENE:	ND<.005
XYLENES:	0.008

Superior Precision Analytical, Inc.
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C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 83929

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/Kg = part per million (ppm)

OIL AND GREASE ANALYSIS By Standard Methods Method 503E:
Minimum Detection Limit in Soil: 50mg/Kg

Modified EPA-SW846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 1mg/Kg
Standard Reference: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/Kg
Standard Reference: 06/26/91

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/Kg
Standard Reference: 07/08/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	06/26/91	200 ng	96/96	0	70-130
Benzene	07/08/91	200 ng	102/101	1	70-130
Toluene	07/08/91	200 ng	97/97	0	70-130
Ethyl Benzene	07/08/91	200 ng	96/96	0	70-130
Total Xylene	07/08/91	200 ng	91/91	0	70-130

Richard Srna, Ph.D.
(for)
Laboratory Director

Fax copy of Lab Report and COC to Chevron Contact: ☑ Yes ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: 92384
Facility Address: 15526 HESPERIAN
Consultant Project Number: SAN LORENZO
Consultant Name: BLAINE TECH SERVICES
Address:
Project Contact (Name): Elaine Holland
(Phone): (Fax Number):

Chevron Contact (Name): NANCY VUKELICH
(Phone):
Laboratory Name: SUPERIOR MARTINEZ
Laboratory Release Number: 583-2160
Samples Collected by (Name): GLEN BENNETT
Collection Date: 10.16.91
Signature:

cc: BTS

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015) *run in series	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)					Remarks
#1		1	S	G	—	—	YES	1												
#2		1	S	G	—	—	YES	1												
#3		1	S	G	—	—	YES	1												

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	BTS	10-16-91 1445			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
					10/16/91 1500

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.DWG/03 91/HCH

Fax copy of Lab Report and COC to Chevron Contact: ☑ Yes ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: 92384
Facility Address: HESPERIAN - SYCAMORE
Consultant Project Number: SAN LORENZO
Consultant Name: BLAINE TECH SERVICES
Address: 1370 TULLY RD. #505
Project Contact (Name): Elaine Holland
(Phone) (Fax Number)

Chevron Contact (Name): NANCY VUKELICH
(Phone)
Laboratory Name: SUPERIOR, MARTINEZ
Laboratory Release Number:
Samples Collected by (Name): GLEN BENNETT
Collection Date: 10-17-91
Signature: [signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015) RUN IN 4X BLKS	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)						Remarks
1A-D		4	S	C	—	—	Y	✓													cc: Blaine Tech Services
2A-D		4	S	C	—	—	Y	✓													

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
[signature]	BTS	10.17.91 1030			
			Received For Laboratory By (Signature): [signature]		10/17/91 1030

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days (circled)
10 Days
As Contracted

COC-3.DWG/03 91/HCH

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 84137
CLIENT: Blaine Tech Services, Inc.
CLIENT JOB NO.: SAN LORENZO

DATE RECEIVED: 10/16/91
DATE REPORTED: 10/23/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
84137- 1	1	10/16/91	10/23/91
84137- 2	2	10/16/91	10/23/91
84137- 3	3	10/16/91	10/23/91

Laboratory Number:	84137 1	84137 2	84137 3
ANALYTE LIST	Amounts/Quantitation Limits (mg/Kg)		
OIL AND GREASE:	NA	NA	NA
TPH/GASOLINE RANGE:	180	32	2
TPH/DIESEL RANGE:	NA	NA	NA
BENZENE:	0.97	0.86	0.40
TOLUENE:	1.3	0.092	0.015
ETHYL BENZENE:	3.8	1.0	0.034
XYLENES:	6.6	2.0	0.057

Superior Precision Analytical, Inc.
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C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 84137

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/Kg = part per million (ppm)

OIL AND GREASE ANALYSIS By Standard Methods Method 503E:
Minimum Detection Limit in Soil: 50mg/Kg

Modified EPA-SW846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 1mg/Kg
Standard Reference: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/Kg
Standard Reference: 10/04/91

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/Kg
Standard Reference: 10/11/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	10/04/91	200 ng	106/100	6	70-130
Benzene	10/11/91	200 ng	97/95	2	70-130
Toluene	10/11/91	200 ng	92/91	1	70-130
Ethyl Benzene	10/11/91	200 ng	92/92	0	70-130
Total Xylene	10/11/91	200 ng	99/98	1	70-130

Richard Srna, Ph.D.
Laboratory Director

Superior Precision Analytical, Inc.
875 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 84152
CLIENT: Blaine Tech Services, Inc.
CLIENT JOB NO.: SAN LORENZO

DATE RECEIVED: 10/17/91
DATE REPORTED: 10/24/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
84152- 1	1A-D	10/17/91	10/24/91
84152- 2	2A-D	10/17/91	10/23/91

Laboratory Number:	84152 1	84152 2
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)	
OIL AND GREASE:	NA	NA
TPH/GASOLINE RANGE:	ND<1	5
TPH/DIESEL RANGE:	NA	NA
BENZENE:	0.007	0.009
TOLUENE:	ND<.005	0.014
ETHYL BENZENE:	0.012	0.080
XYLENES:	0.063	0.31

Fax copy of Lab Report and COC to Chevron Contact: ☑ Yes ☐ No 84294

Chain-of-Custody-Recor

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 9-3381
Facility Address HESPERIAN + SYCAMORE
Consultant Project Number [redacted]
Consultant Name [redacted]
Address 1370 TULY ROAD SJ, 95122
Project Contact (Name) Elaine Holland
(Phone) (Fax Number)

Chevron Contact (Name) NANCY VUKELICH
(Phone)
Laboratory Name SUPERIOR MARTINEZ
Laboratory Release Number
Samples Collected by (Name) GLEN BENNETT
Collection Date 11-1-91
Signature

Sample Number	Lab Sample Number	Number of Containers	Matrix: S = Soil, W = Water, A = Air, C = Charcoal	Type: G = Grab, C = Composite, D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (TCAP or AA)	Remarks
1		1	S	D		—	Yes	X								CC: Blaine Tech Services
2								X								
3								X								
4								X								
5								X								
6								X								
7								X								
8								X								
9								X								
10								X								
11								X								
12								X								
13								X								
14								X								

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
[signature]	BTS	11-1-91 1500			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
			[signature]		11/1/91 1510

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.PMS/03.01/NEH

09/11/91 13:51 ☎ 408 293 8773 BLAINE TECH

Fax copy of Lab Report and COC to Chevron Contact: ☑ Yes ☐ No 82294

Chain-of-Custody-Recor

Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591	Chevron Facility Number 92384 Facility Address HESPERIAN + SYCAMORE Consultant Project Number SAN LORENZO Consultant Name BLAINE TECH SERVICES Address 1370 TULLY ROAD SJ, 95122 Project Contact (Name) Elaine Holland (Phone) (Fax Number)	Chevron Contact (Name) NANCY VUKEVICH (Phone) Laboratory Name SUPERIOR, MARTINEZ Laboratory Release Number Samples Collected by (Name) GLEN BENNETT Collection Date 11-1-91 Signature [signature]

Analyses To Be Performed

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)						Remarks
# 15		1	S	D		—	Yes	X													CC: Blaine Tech Services
16								X													
17								X													
18								X													
19								X													
20								X													
21								X													
22								X													
23								X													
24								X													
25								X													
26								X													
27								X													
28								X													

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Turn Around Time (Circle Choice)
[signature]	BTS	11-1-91 1510				24 Hrs. 48 Hrs. (5 Days) 10 Days (As Contracted)
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) [signature]		Date/Time 11/01/91 1510	

COC-3.DWG/03.91/NCH

Fax copy of Lab Report and COC to Chevron Contact: ☑ Yes ☐ No   84294

Chain-of-Custody-Record

Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591	Chevron Facility Number: 92384 Facility Address: HESPERIAN + SYCAMORE Consultant Project Number: SAN LORENZO Consultant Name: BLAINE TECH SERVICES Address: 1370 TULLY ROAD SJ, 95122 Project Contact (Name): Elaine Holland (Phone): (Fax Number):	Chevron Contact (Name): NANCY VUKEVICH (Phone): Laboratory Name: SUPERIOR, MARTINEZ Laboratory Release Number: Samples Collected by (Name): GLEN BENNETT Collection Date: 11-1-91 Signature: [signature]

Analyses To Be Performed

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)						Remarks
#29		1	S	D		—	YES	X													
#30		1	S	G		—	YES	X													HOLD
31		1	S	G		—	YES	X	ANALYSES CANCELLED AS												HOLD
32		1	S	G		—	YES	X	GLEN BENNETT 11/5/91												HOLD

CC: Blaine Tech Services

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
[signature]	BTS	11-1-91 1510			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
			[signature]		11/01/91 1510

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.DWG/03.91/NCH

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1555 Burke, Unit I ▪ San Francisco, California 94124 ▪ (415) 647 2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 12524
CLIENT: Blaine Tech Services
CLIENT JOB NO.: SAN LORENZO

DATE RECEIVED: 11/01/91
DATE REPORTED: 11/11/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
12524- 1	1	10/31/91	11/07/91
12524- 2	2	10/31/91	11/07/91
12524- 3	3	10/31/91	11/07/91
12524- 4	4	10/31/91	11/07/91
12524- 5	5	10/31/91	11/07/91
12524- 6	6	10/31/91	11/07/91
12524- 7	7	10/31/91	11/07/91
12524- 8	8	10/31/91	11/07/91
12524- 9	9	10/31/91	11/07/91
12524-10	10	10/31/91	11/08/91

Laboratory Number:	12524 1	12524 2	12524 3	12524 4	12524 5
ANALYTE LIST	Amounts/Quantitation Limits (mg/Kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<1	ND<1	ND<1	ND<1	ND<1
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
TOLUENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
ETHYL BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
XYLENES:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005

Laboratory Number:	12524 6	12524 7	12524 8	12524 9	12524 10
ANALYTE LIST	Amounts/Quantitation Limits (mg/Kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<1	ND<1	ND<1	ND<1	ND<1
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
TOLUENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
ETHYL BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
XYLENES:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005

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C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 12524
CLIENT: Blaine Tech Services
CLIENT JOB NO.: SAN LORENZO

DATE RECEIVED: 11/01/91
DATE REPORTED: 11/11/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
12524-11	11	10/31/91	11/07/91
12524-12	12	10/31/91	11/07/91
12524-13	13	10/31/91	11/07/91
12524-14	14	10/31/91	11/07/91
12524-15	15	10/31/91	11/07/91
12524-16	16	10/31/91	11/07/91
12524-17	17	10/31/91	11/07/91
12524-18	18	10/31/91	11/08/91
12524-19	19	10/31/91	11/07/91
12524-20	20	10/31/91	11/08/91

Laboratory Number:	12524 11	12524 12	12524 13	12524 14	12524 15
ANALYTE LIST	Amounts/Quantitation Limits (mg/Kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<1	ND<1	ND<1	ND<1	1.8
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
TOLUENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
ETHYL BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	.013
XYLENES:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005

Laboratory Number:	12524 16	12524 17	12524 18	12524 19	12524 20
ANALYTE LIST	Amounts/Quantitation Limits (mg/Kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<1	ND<1	ND<1	ND<1	220
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	.044
TOLUENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.03
ETHYL BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	.047
XYLENES:	ND<.005	ND<.005	ND<.005	ND<.005	.44

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C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 12524
CLIENT: Blaine Tech Services
CLIENT JOB NO.: SAN LORENZO

DATE RECEIVED: 11/01/91
DATE REPORTED: 11/11/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
12524-21	21	10/31/91	11/08/91
12524-22	22	10/31/91	11/07/91
12524-23	23	10/31/91	11/07/91
12524-24	24	10/31/91	11/07/91
12524-25	25	10/31/91	11/07/91
12524-26	26	10/31/91	11/07/91
12524-27	27	10/31/91	11/08/91
12524-28	28	10/31/91	11/08/91
12524-29	29	10/31/91	11/08/91
12524-30	30	10/31/91	/ /

Laboratory Number:	12524 21	12524 22	12524 23	12524 24	12524 25
ANALYTE LIST	Amounts/Quantitation Limits (mg/Kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<1	ND<1	ND<1	ND<1	ND<1
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
TOLUENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
ETHYL BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
XYLENES:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005

Laboratory Number:	12524 26	12524 27	12524 28	12524 29	12524 30
ANALYTE LIST	Amounts/Quantitation Limits (mg/Kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<1	ND<1	ND<1	ND<1	NA
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	NA
TOLUENE:	ND<.005	ND<.005	ND<.005	ND<.005	NA
ETHYL BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	NA
XYLENES:	ND<.005	ND<.005	ND<.005	ND<.005	NA

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 12524
CLIENT: Blaine Tech Services
CLIENT JOB NO.: SAN LORENZO

DATE RECEIVED: 11/01/91
DATE REPORTED: 11/11/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
12524-31	31	10/31/91	/ /
12524-32	32	10/31/91	/ /

Laboratory Number:	12524 31	12524 32
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)	
OIL AND GREASE:	NA	NA
TPH/GASOLINE RANGE:	NA	NA
TPH/DIESEL RANGE:	NA	NA
BENZENE:	NA	NA
TOLUENE:	NA	NA
ETHYL BENZENE:	NA	NA
XYLENES:	NA	NA

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C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 12524

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/kg = part per million (ppm)

OIL AND GREASE ANALYSIS By Standard Methods Method 503E:
Minimum Detection Limit in Soil: 50mg/kg

Modified EPA-SW846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 1mg/kg
Standard Reference: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg
Standard Reference: 07/23/91

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg
Standard Reference: 06/13/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	07/23/91	200ng	94/99	5.9	59-121
Benzene	06/13/91	200ng	88/91	6.1	70-125
Toluene	06/13/91	200ng	88/93	5.5	74-116
Ethyl Benzene	06/13/91	200ng	83/87	4.1	75-120
Total Xylene	06/13/91	600ng	92/97	4.4	75-119

Richard Srna, Ph.D.
Laboratory Director

Fax copy of Lab Report and COC to Chevron Contact: ☑ Yes ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591	Chevron Facility Number 9-1384 Facility Address SAN LORENZO, CA. Consultant Project Number SAN LORENZO Consultant Name BLAINE TECH SERVICES Address 1370 TULLY RD #505 SJ, CA Project Contact (Name) Elaine Holland (Phone) (Fax Number)	Chevron Contact (Name) NANCY VUKELICH (Phone) Laboratory Name SUPERIOR, MARTINEZ Laboratory Release Number Samples Collected by (Name) GLEN BENNETT Collection Date 11-5-91 Signature [signature]

Analyses To Be Performed

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)					Remarks CC: Blaine Tech Services
#1		1	S	G		—	YES	X												48 HRS.
2		1	S	G		—	YES	X												48 HRS.
3		1	S	G		—	YES	X												48 HRS.
4A-D		4	S	C		—	YES	X												5 DAY
5A-D		4	S	C		—	YES	X												5 DAY

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Turn Around Time (Circle Choice)
[signature]	BTS	11-5-91 1235				24 Hrs. 48 Hrs. 5 Days 10 Days As Contracted SEE ABOVE
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) [signature]		Date/Time 11/5/91 1235	

COC-3.DWG/03 91/HCH

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 ▪ Martinez, California 94553 ▪ (510) 229-1512 / fax (510) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 84299
CLIENT: Blaine Tech Services, Inc.
CLIENT JOB NO.: SAN LORENZO

DATE RECEIVED: 11/05/91
DATE REPORTED: 11/13/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
84299- 1	#1	11/05/91	11/07/91
84299- 2	#2	11/05/91	11/07/91
84299- 3	#3	11/05/91	11/07/91
84299- 4	#4A-D	11/05/91	11/12/91
84299- 5	#5A-D	11/05/91	11/12/91

Laboratory Number:	84299 1	84299 2	84299 3	84299 4	84299 5
ANALYTE LIST	Amounts/Quantitation Limits (mg/Kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<1	ND<1	ND<1	ND<1	ND<1
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
TOLUENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
ETHYL BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
XYLENES:	ND<.005	ND<.005	ND<.005	ND<.005	0.006

Superior Precision Analytical, Inc.
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C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 84299

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/kg = part per million (ppm)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Soil: 50mg/kg

Modified EPA-SW846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 1mg/kg
Standard Reference: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg
Standard Reference: 10/04/91

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg
Standard Reference: 10/11/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	10/04/91	200 ng	96/87	10	70-130
Benzene	10/11/91	200 ng	85/85	0	70-130
Toluene	10/11/91	200 ng	89/88	1	70-130
Ethyl Benzene	10/11/91	200 ng	90/89	1	70-130
Total Xylene	10/11/91	200 ng	102/101	1	70-130

Richard Srna, Ph.D.
Laboratory Director

Fax copy of Lab Report and COC to Chevron Contact: ☑ Yes ☐ No 84430 **Chain-of-Custody-Record**

Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591	Chevron Facility Number 92384 Facility Address HESPERIAN + SYCAMORE Consultant Project Number SAN LORENZO Consultant Name BLAINE TECH SERVICES Address 1370 TULLY ROAD SJ, 95122 Project Contact (Name) Elaine Holland (Phone) (Fax Number)	Chevron Contact (Name) NANCY VUKEVICH (Phone) Laboratory Name SUPERIOR, MARTINEZ Laboratory Release Number Samples Collected by (Name) GLEN BENNETT Collection Date 11-20-91 Signature [signature]

Analyses To Be Performed

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)						Remarks
1	1	1	S	D	—	—	YES	X													CC: Blaine Tech Services
2	2							X													
3	3							X													
4	4							X													
5	5							X													
6	6							X													
7	7							X													
8	8							X													
9	9							X													
10	10							X													

Please Initial: BU
Samples Stored in ice. BU
Appropriate containers BU
Samples preserved BU
VOA's without headspace
Comments:

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Turn Around Time (Circle Choice)
[signature]	BTS	1215 11-20-91				24 Hrs. (48 Hrs.) 5 Days 10 Days As Contracted
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Recieved For Laboratory By (Signature) [signature]		Date/Time 1215 11/20/91	

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 ▪ Martinez, California 94553 ▪ (510) 229-1512 / fax (510) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 84430
CLIENT: Blaine Tech Services, Inc.
CLIENT JOB NO.:San Lorezo

DATE RECEIVED: 11/20/91
DATE REPORTED: 11/21/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
84430- 1	1	11/20/91	11/20/91
84430- 2	2	11/20/91	11/21/91
84430- 3	3	11/20/91	11/20/91
84430- 4	4	11/20/91	11/20/91
84430- 5	5	11/20/91	11/20/91
84430- 6	6	11/20/91	11/20/91
84430- 7	7	11/20/91	11/20/91
84430- 8	8	11/20/91	11/20/91
84430- 9	9	11/20/91	11/20/91
84430-10	10	11/20/91	11/21/91

Laboratory Number:	84430 1	84430 2	84430 3	84430 4	84430 5
ANALYTE LIST	Amounts/Quantitation Limits (mg/Kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<1	ND<1	ND<1	ND<1	ND<1
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
TOLUENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
ETHYL BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
XYLENES:	ND<.005	0.005	ND<.005	ND<.005	ND<.005

Laboratory Number:	84430 6	84430 7	84430 8	84430 9	84430 10
ANALYTE LIST	Amounts/Quantitation Limits (mg/Kg)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<1	ND<1	ND<1	ND<1	ND<1
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
TOLUENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
ETHYL BENZENE:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
XYLENES:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005

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C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 84430

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/kg = part per million (ppm)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Soil: 50mg/kg

Modified EPA-SW846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 1mg/kg
Standard Reference: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg
Standard Reference: 10/04/91

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg
Standard Reference: 10/11/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	10/04/91	200 ng	92/87	6	70-130
Benzene	10/11/91	200 ng	99/101	2	70-130
Toluene	10/11/91	200 ng	93/95	2	70-130
Ethyl Benzene	10/11/91	200 ng	91/93	2	70-130
Total Xylene	10/11/91	200 ng	95/99	4	70-130

Richard Srna, Ph.D.
Laboratory Director

TABLE OF SAMPLING LOCATIONS AND ANALYTICAL RESULTS

NOTE: Analytical results are reported in Parts Per Million or Parts Per Billion

I.D. GIVEN THIS SAMPLE AREA	SAMPLE DEPTH IN FT. BELOW GRADE	SAMPLING LOCATION DICTATED BY	TYPE & METHOD FOR THE SAMPLE OBTAINED	SAMPLE MATRIX	DATE SAMPLED	BTS CHAIN OF CUSTODY I.D.	BTS SAMPLE I.D.	NAME OF DOHS HMTL LABORATORY	LABORATORY SAMPLE I.D.	PPM TPH AS GAS	PPM BENZENE	PPM TOLUENE	PPM ETHYL BENZENE	PPM XYLENES
TANK PIT SAMPLES														
VISIT C														
#1	8-10.0	ELECTIVE	EXPLOR	SOIL	08/05/91	910805-G-1	#1	SUPERIOR	83641-1	8.0 *	0.54	0.012	0.029	0.016
#2	--	ELECTIVE	CAPILLAR	SOIL	08/05/91	910805-G-1	#2	SUPERIOR	83641-2	150	0.65	0.31	2.5	0.71
#3	--	ELECTIVE	CAPILLAR	SOIL	08/05/91	910805-G-1	#3	SUPERIOR	83641-3	2.0	ND	ND	0.006	0.008
#4	--	ELECTIVE	CAPILLAR	SOIL	08/05/91	910805-G-1	#4	SUPERIOR	83641-4	390	1.0	0.47	5.7	1.7
VISIT F														
#1	12.0	ELECTIVE	CONFIRM	SOIL	08/09/91	910809-G-1	#1	SUPERIOR	83682-1	1400	15	70	31	170
#2	5.0	ELECTIVE	CONFIRM	SOIL	08/09/91	910809-G-1	#2	SUPERIOR	83682-2	ND	ND	ND	ND	ND
#3	12.0	ELECTIVE	CONFIRM	SOIL	08/09/91	910809-G-1	#3	SUPERIOR	83682-3	47	0.071	0.12	0.84	2.7
#4	5.0	ELECTIVE	CONFIRM	SOIL	08/09/91	910809-G-1	#4	SUPERIOR	83682-4	ND	ND	ND	ND	ND
#5	11.0	ELECTIVE	CONFIRM	SOIL	08/09/91	910809-G-1	#5	SUPERIOR	83682-5	1.0 **	0.19	ND	ND	0.020
#6	4.0	ELECTIVE	CONFIRM	SOIL	08/09/91	910809-G-1	#6	SUPERIOR	83682-6	ND	ND	ND	ND	ND
VISIT P														
#1	10.0	ELECTIVE	CONFIRM	SOIL	10/16/91	911016-C-1	#1	SUPERIOR	84137-1	180	0.97	1.3	3.8	6.6
#2	14.0	ELECTIVE	CAPILLAR	SOIL	10/16/91	911016-C-1	#2	SUPERIOR	84137-2	32	0.86	0.092	1.0	2.0
#3	9.5	ELECTIVE	CONFIRM	SOIL	10/16/91	911016-C-1	#3	SUPERIOR	84137-3	2	0.40	0.015	0.034	0.057
VISIT R														
#1	11.0	ELECTIVE	CONFIRM	SOIL	11/05/91	911105-C-1	#1	SUPERIOR	84299-1	ND	ND	ND	ND	ND
#2	11.0	ELECTIVE	CONFIRM	SOIL	11/05/91	911105-C-1	#2	SUPERIOR	84299-2	ND	ND	ND	ND	ND
#3	11.0	ELECTIVE	CONFIRM	SOIL	11/05/91	911105-C-1	#3	SUPERIOR	84299-3	ND	ND	ND	ND	ND
STOCKPILE SAMPLES														
VISIT E														
#1A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#1A-D	SUPERIOR	83659-1	290	0.34	1.9	2.9	22
#2A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#2A-D	SUPERIOR	83659-2	240	0.074	0.41	1.8	13
#3A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#3A-D	SUPERIOR	83659-3	160	0.18	0.38	1.7	9.2
#4A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#4A-D	SUPERIOR	83659-4	610	ND	1.4	4.6	45
#5A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#5A-D	SUPERIOR	83659-5	200	ND	0.32	1.3	11
#6A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#6A-D	SUPERIOR	83659-6	43	0.006	0.13	0.32	2.1
#7A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#7A-D	SUPERIOR	83659-7	110	0.033	0.29	0.81	6.2
#8A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#8A-D	SUPERIOR	83659-8	250	0.27	1.4	3.2	18
#9A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#9A-D	SUPERIOR	83659-9	100	ND	0.50	0.93	6.2
#10A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#10A-D	SUPERIOR	83659-10	620	1.9	14	11	72
#11A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#11A-D	SUPERIOR	83659-11	57	ND	0.058	0.15	1.4
#12A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#12A-D	SUPERIOR	83659-12	610	1.5	12	11	67
#13A-D	6-12"	STANDARD	BAAQMD-M	SOIL	08/07/91	910807-G-1	#13A-D	SUPERIOR	83659-13	1300	2.4	53	28	190

* Does not match typical gasoline pattern, in heavier hydrocarbon range.
** Does not match typical gasoline pattern.

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TABLE OF SAMPLING LOCATIONS AND ANALYTICAL RESULTS

NOTE: Analytical results are reported in Parts Per Million or Parts Per Billion

I.D. GIVEN THIS SAMPLE AREA	SAMPLE DEPTH IN FT. BELOW GRADE	SAMPLING LOCATION DICTATED BY	TYPE & METHOD FOR THE SAMPLE OBTAINED	SAMPLE MATRIX	DATE SAMPLED	BTS CHAIN OF CUSTODY I.D.	BTS SAMPLE I.D.	NAME OF DOHS EMTL LABORATORY	LABORATORY SAMPLE I.D.	PPM TPH AS GAS	PPM BEN-ZENE	PPM TOL-UENE	PPM ETHYL BEN-ZENE	PPM XY-LENES
STOCKPILE SAMPLES continued														
VISIT L														
#1A-D	6-12"	ELECTIVE	BAAQMD-M	SOIL	09/11/91	910911-C-1	#1A-D	SUPERIOR	83929-1	ND	ND	ND	ND	0.008
VISIT P														
#1A-D	6-12"	STANDARD	BAAQMD-M	SOIL	10/16/91	911016-C-1	#1A-D	SUPERIOR	84152-1	ND	0.007	ND	0.012	0.063
#2A-D	6-12"	STANDARD	BAAQMD-M	SOIL	10/16/91	911016-C-1	#2A-D	SUPERIOR	84152-2	5.0	0.009	0.014	0.080	0.31
VISIT Q														
#1	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#1	SUPERIOR	12524-1	ND	ND	ND	ND	ND
#2	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#2	SUPERIOR	12524-2	ND	ND	ND	ND	ND
#3	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#3	SUPERIOR	12524-3	ND	ND	ND	ND	ND
#4	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#4	SUPERIOR	12524-4	ND	ND	ND	ND	ND
#5	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#5	SUPERIOR	12524-5	ND	ND	ND	ND	ND
#6	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#6	SUPERIOR	12524-6	ND	ND	ND	ND	ND
#7	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#7	SUPERIOR	12524-7	ND	ND	ND	ND	ND
#8	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#8	SUPERIOR	12524-8	ND	ND	ND	ND	ND
#9	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#9	SUPERIOR	12524-9	ND	ND	ND	ND	ND
#10	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#10	SUPERIOR	12524-10	ND	ND	ND	ND	ND
#11	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#11	SUPERIOR	12524-11	ND	ND	ND	ND	ND
#12	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#12	SUPERIOR	12524-12	ND	ND	ND	ND	ND
#13	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#13	SUPERIOR	12524-13	ND	ND	ND	ND	ND
#14	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#14	SUPERIOR	12524-14	ND	ND	ND	ND	ND
#15	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#15	SUPERIOR	12524-15	1.8	ND	ND	0.013	ND
#16	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#16	SUPERIOR	12524-16	ND	ND	ND	ND	ND
#17	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#17	SUPERIOR	12524-17	ND	ND	ND	ND	ND
#18	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#18	SUPERIOR	12524-18	ND	ND	ND	ND	ND
#19	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#19	SUPERIOR	12524-19	ND	ND	ND	ND	ND
#20	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#20	SUPERIOR	12524-20	220	0.044	ND	0.047	0.44
#21	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#21	SUPERIOR	12524-21	ND	ND	ND	ND	ND
#22	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#22	SUPERIOR	12524-22	ND	ND	ND	ND	ND
#23	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#23	SUPERIOR	12524-23	ND	ND	ND	ND	ND
#24	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#24	SUPERIOR	12524-24	ND	ND	ND	ND	ND
#25	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#25	SUPERIOR	12524-25	ND	ND	ND	ND	ND
#26	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#26	SUPERIOR	12524-26	ND	ND	ND	ND	ND
#27	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#27	SUPERIOR	12524-27	ND	ND	ND	ND	ND
#28	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#28	SUPERIOR	12524-28	ND	ND	ND	ND	ND
#29	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#29	SUPERIOR	12524-29	ND	ND	ND	ND	ND
#30	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#30	SUPERIOR	12524-30-PLACED ON HOLD					
#31	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#31	SUPERIOR	12524-31-PLACED ON HOLD					
#32	6-12"	RWQCB	DISCRETE	SOIL	11/01/91	911101-C-1	#32	SUPERIOR	12524-32-PLACED ON HOLD					

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I.D. GIVEN THIS SAMPLE AREA	SAMPLE DEPTH IN FT. BELOW GRADE	SAMPLING LOCATION DICTATED BY	TYPE & METHOD FOR THE SAMPLE OBTAINED	SAMPLE MATRIX	DATE SAMPLED	BTS CHAIN OF CUSTODY I.D.	BTS SAMPLE I.D.	NAME OF DOHS HMTL LABORATORY	LABORATORY SAMPLE I.D.	PPM TPH AS GAS	PPM BENZENE	PPM TOLUENE	PPM ETHYL BENZENE	PPM XYLENES
STOCKPILE SAMPLES continued														
VISIT R														
#4A-D	6-12"	STANDARD	BAAQMD-M	SOIL	11/05/91	911105-C-1	#4A-D	SUPERIOR	84299-4	ND	ND	ND	ND	ND
#5A-D	6-12"	STANDARD	BAAQMD-M	SOIL	11/05/91	911105-C-1	#5A-D	SUPERIOR	84299-5	ND	ND	ND	ND	0.006
VISIT S														
#1	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#1	SUPERIOR	84430-1	ND	ND	ND	ND	ND
#2	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#2	SUPERIOR	84430-2	ND	ND	ND	ND	0.005
#3	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#3	SUPERIOR	84430-3	ND	ND	ND	ND	ND
#4	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#4	SUPERIOR	84430-4	ND	ND	ND	ND	ND
#5	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#5	SUPERIOR	84430-5	ND	ND	ND	ND	ND
#6	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#6	SUPERIOR	84430-6	ND	ND	ND	ND	ND
#7	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#7	SUPERIOR	84430-7	ND	ND	ND	ND	ND
#8	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#8	SUPERIOR	84430-8	ND	ND	ND	ND	ND
#9	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#9	SUPERIOR	84430-9	ND	ND	ND	ND	ND
#10	6-12"	RWQCB	DISCRETE	SOIL	11/20/91	911120-C-1	#10	SUPERIOR	84430-10	ND	ND	ND	ND	ND

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