January 11, 2002

ICES 2262

Ms. Eva Chu Hazardous Materials Specialist Alameda County Health Agency 1131 Harbor Bay Parkway, 2nd Floor Alameda, California 94502

Subject:

Site Mitigation Activities Marina Cove Subdivision Alameda, California

FEB 2 Talle

Dear Eva:

Enclosed please find our report documenting the site mitigation activities that were recently completed at the Marina Cove Subdivision in Alameda, California ("the Site").

The site mitigation activities consisted of:

Removing residual acid from an aboveground 1. storage container;

2. Rinsing and disposing the storage container;

Excavating soil underlying and adjacent to the storage container which was impacted by the acid; and

4. Collecting soil samples to document the residual concentrations of the surficial sediments following removal of the acidaffected soil.

If you have any questions or comments concerning this report, please call me.

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Innovative & Creative

Environmental Solutions

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> Tel(510)652-3222 Pax(510)652-355

Emeryville 94662-9288

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Mr. Henryk Tay, KB Home South Bay Inc.

SITE MITIGATION ACTIVITIES

MARINA COVE SUBDIVISION ALAMEDA, CALIFORNIA

JANUARY 11, 2002

ICES 2262

Prepared for:

Mr. Henryk Tay KB Home South Bay Inc. 2201 Walnut Avenue, Suite 150 Fremont, California 94538



P. O. Box 99288 Emeryville CA 94662-9288 (510) 652-3222



TABLE OF CONTENTS

| PAGE |
|--|
| LIST OF TABLES |
| LIST OF FIGURES iii |
| 1.0 INTRODUCTION |
| 2.0 SITE DESCRIPTION |
| 3.0 REMEDIAL ACTIVITIES |
| 4.0 SOIL SAMPLING |
| 5.0 LABORATORY ANALYSIS |
| 6.0 LABORATORY ANALYTICAL RESULTS |
| 7.0 DISCUSSION |
| 8.0 EXCLUSIONS |
| TABLES |
| FIGURES |
| APPENDICES A: DECON REPORT B: LABORATORY CERTIFICATES C: SHIPPING MANIFESTS |



LIST OF TABLES

| NUMBER | TITLE | |
|--------|---------------------------|--|
| | | |
| 1 | Excavation Sample Results | |
| 2 | Trench Sample Results | |
| 3 | Stockpile Sample Results | |



LIST OF FIGURES

TITLE

| 1 | Site Location |
|-----|------------------|
| | |
| | |
| 2 | Sample Locations |
| 2 A | Sample Locations |

NUMBER



January 11, 2002

ICES 2262

REMEDIAL ACTIVITIES MARINA COVE SUBDIVISION ALAMEDA, CALIFORNIA

1.0 INTRODUCTION

At the request of KB Home South Bay Inc. ("the Client"), Innovative and Creative Environmental Solutions (ICES) has prepared a summary of the remedial activities that were recently completed at the Marina Cove Subdivision in Alameda, California ("the Site"; Figure 1).

The remedial activities consisted of:

- Removing residual acid from an aboveground storage container;
- Rinsing and disposing the storage container;
- 3. Excavating and disposing soil underlying and adjacent to the storage container which was impacted by the acid; and
- 4. Collecting soil samples to document the residual concentrations of the surficial soil following the removal of the acid-affected soil.

2.0 SITE DESCRIPTION

The Site is located on the north side of Buena Vista Avenue, between Entrance Road and Grand Street. The Site consists of several vacant parcels occupying an area of approximately 19.4 acres. One 1,500-gallon aboveground storage container, formerly used to store sulfuric acid, was located at the northwestern portion of the Site.

3.0 REMEDIAL ACTIVITIES

Decon Environmental Services, Inc. (Decon) of Hayward, California was retained by the Client to clean six aboveground caustic acid soda tanks and one 1,500-gallon aboveground sulfuric acid storage



container ("the container") at the Site. A summary of the onsite activities that were performed and reported by Decon is presented below.

Decon mobilized an emergency response cleanup crew to control and contain the sulfuric acid release when a slow and steady leak. from a hole on the container was observed during cleaning activities. Sulfuric acid that had pooled in the bermed secondary containment area was pumped into polyethylene drums The sulfuric acid remaining in the container was also pumped into drums until the liquid level in the container was below the elevation of the hole. Twelve drums of sulfuric acid were generated from the cleanup activities. Additionally, sulfuric acid that was contained within the saturated surficial soil at the floor of the secondary containment berm was extracted using absorbent. The acid-soaked absorbent and soil were shoveled into drums. Decon also pumped approximately 1,100 gallons of sulfuric acid remaining in the container into a separate polyethylene tank that was mobilized to the Site.

Decon reportedly defined the vertical and lateral extent of the sulfuric acid spill when they realized that there was no underlying concrete pad beneath the container. Approximately 20 cubic yards (cy) of visibly stained acid impacted soil underlying the container were excavated to a depth of approximately 4 feet below the existing ground surface (bgs). Decon collected soil samples at the base of the excavation and measured residual pH levels using colormetric pH paper. pH levels ranging from 5 to 6 were recorded for soil samples collected from the base of the excavation. Groundwater encountered during excavation activities was pumped from the excavation and stored in the polyethylene tank.

The process of excavating and sampling/resampling was repeated until the soil and groundwater samples contained a pH of 7. The final excavated area was 18 feet long by 18 feet wide and extended to a depth of approximately 8 to 9 feet bgs. The excavation was subsequently backfilled using onsite crushed concrete.

Approximately 126 tons of acid-affected soil was excavated, placed into lined bins, and disposed at the Chemical Waste Management Class I disposal facility located in Kettleman Hills, California.

A copy of Decon's project report is included in Appendix A.



4.0 SOIL SAMPLING

ICES collected soil samples on October 15, 2001. Ten soil samples (EW-1 through EW-8; and EF-1 and EF-2) were collected from ten test pit locations at the approximate limits of the sulfuric acid excavation. The approximate test pit locations are shown in Figures 2 and 2A. Soil samples were collected from the excavation by driving clean brass tubes into soil excavated by a backhoe from the test pit sidewalls of samples EW-1 through EW-8 at a depth of approximately 4.5 feet bgs; and from the test pit floor of samples EF-1 and EF-2 at depth of approximately 9 feet bgs.

At the request of Ms. Eva Chu of Alameda County Health Services, ICES collected two supplementary soil samples (TR-1 and TR-2) from the discolored soil that was observed in the trench located directly adjacent to and south of the excavation (Figure 2). Additionally, four 4-point composite samples (SP-1 through SP-4) were collected from the stockpiled material excavated from the trench.

After being labeled and sealed with tamper resistant custody tape, the filled brass tubes were immediately placed in a chilled cooler containing crushed ice for transportation to the laboratory. Proper documentation and field chain-of-custody procedures were followed.

All equipment used during this investigation which might have come into contact with contaminated materials was thoroughly decontaminated before and after each use. This was accomplished by washing with Alconox (a laboratory-grade detergent) and rinsing with deionized or distilled water.

5.0 LABORATORY ANALYSIS

The soil samples were sent to McCampbell Analytical Inc. of Pacheco, California, a state-certified laboratory, and selectively analyzed for:

- pH using EPA Method 9045; and
- Volatile organic compounds (VOCs) using EPA Method 8260.

The samples were analyzed on a 48-hour rush to normal 5-day turnaround basis.



6.0 LABORATORY ANALYTICAL RESULTS

The laboratory analytical results are summarized in Tables 1 through 3. Laboratory certificates are presented in Appendix B. The results are as follows:

Analysis of the sidewall and floor samples from the excavation indicated that:

pH levels ranged from 6.41 to 7.34.

Analysis of the samples collected from the trench indicated that:

- pH levels ranged from 5.18 to 6.63.
- Acetone concentrations ranged from 0.130 mg/kg to 0.160 mg/kg.
- Carbon disulfide concentrations ranged from 0.011 mg/kg to 0.020 mg/kg.
- Methyl butyl ketone concentrations ranged from less than 0.005 mg/kg (not detected) to 0.016 mg/kg.
- Methyl ethyl ketone concentrations ranged from 0.083 mg/kg to 0.220 mg/kg.
- The remaining VOC concentrations analyzed using EPA Method 8260 were below their respective detection limits.

Analysis of the stockpile samples indicated that:

- pH levels ranged from 6.08 to 10.69.
- VOC concentrations were less than 0.005 to 0.035 mg/kg (not detected).

7.0 DISCUSSION

Approximately 126 tons of sulfuric acid-affected soil was removed from the Site. Laboratory analytical results indicated that pH levels detected in the soil samples that were collected from the sidewalls and floor of the excavation ranged from 6.41 to 7.34.

The soil samples that were collected to be trench contained non-detectable to low concentrations of acetone. Then disulfide, methyl butyl ketone, and methyl ethyl ketone. pH levels ranged from 5.18 to 6.63. The detectable concentrations



material

of acatome, carbon disulfide, methyl butyl ketone, and methyl ethyl ketone contained in the soil samples are below the U.S. Environmental Protection Agency Region IX Preliminary Remediation Goals for residential landuse.

Non-detectable concentrations of VOCs with pH levels ranging from 6.08 to 10.69 were encountered in the composite soil samples that were collected from the stockpiled material. The stockpiled Tranch material was subsequently loaded onto 18-wheel end dump trucks for transportation to Wasco Landfill. A total of three truckloads of soil were disposed at Vasco Landfill. hazardous waste manifest was prepared for each truckload of soil. Copies of the shipping manifests are included in Appendix C.

Based on the residual pH levels in the soil samples that were collected from the excavation, it appears that the surficial soil containing elevated concentrations of sulfuric acid has been adequately removed.

8.0 **EXCLUSIONS**

ICES assumes no responsibility or liability for the reliance hereon or use hereof of information contained in this report by anyone other than the party to whom it is addressed.



TABLE 1

EXCAVATION SAMPLE RESULTS Marina Cove Subdivision Alameda, California

| Sample ID | Sample Depth (feet) | Нф |
|-------------------------|------------------------|------|
| EXCAVATION SIDEWALL SAM | IPLES | |
| EW-1 | 4.5 | 6.75 |
| EW-2 | 4.5 | 6.41 |
| EW-3 | 4.5 | 7.11 |
| EW-4 | 4.5 | 7.00 |
| EW-5 | 4.5 | 7.22 |
| EW-6 | 4.5 | 7.07 |
| EW-7 | 4.5 | 6.79 |
| EW-8 | 4.5 | 7.34 |
| EXCAVATION FLOOR SAMPLE | s | |
| EF-1 | 9.0 | 6.44 |
| EF-2 | 9.0 | 6.46 |



TABLE 2

TRENCH SAMPLE RESULTS Marina Cove Subdivision Alameda, California

(concentrations are expressed in mg/kg

| Sample ID | Depth (feet) | Acetone | Carbon Disulfide | Methyl butyl ketone | Methyl ethyl ketone | Нд |
|--------------|-----------------|---------|---------------------|------------------------|------------------------|------|
| TR-1 | 0.5 | 0.160 | 0.020 | ND < 0.005 | 0.083 | 6.63 |
| TR-2 | 0.5 | 0.130 | 0.011 | 0.016 | 0.220 | 5.18 |

ND Not Detected

Note:

1. The remaining volatile organic compounds analyzed using EPA Method 8260 were below their respective detection limits.

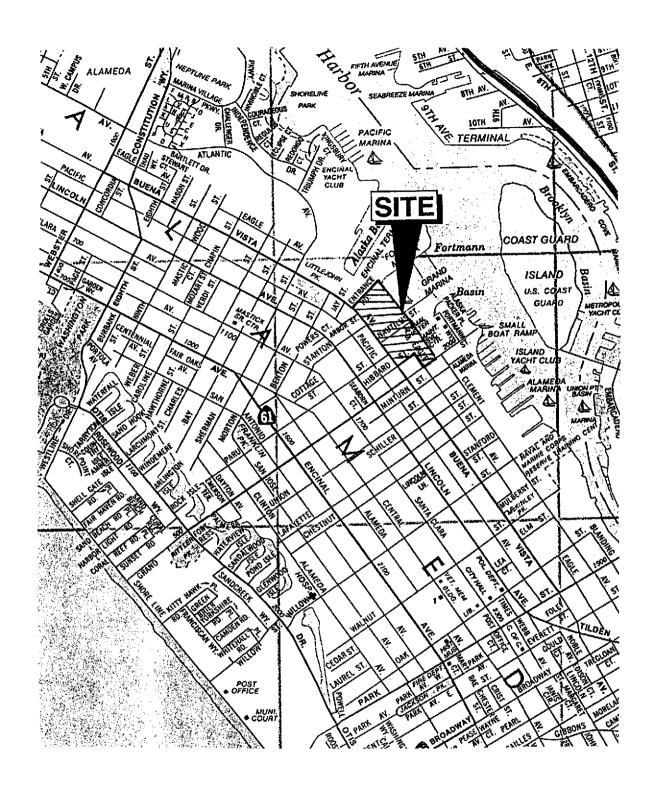


TABLE 3

STOCKPILE SAMPLE RESULTS Marina Cove Subdivision Alameda, California

| Sample ID | VOCs | рН |
|-----------|------------------|-------|
| SP-1 | ND < 0.005-0.035 | 6.96 |
| SP-2 | ND < 0.005-0.035 | 10.69 |
| SP-3 | ND < 0.005-0.035 | 6.08 |
| SP-4 | ND < 0.005-0.035 | 7.51 |
| | | |

ND Not Detected





MAP SOURCE : CSAA

Scale: 1": ± 1320"

January 2002

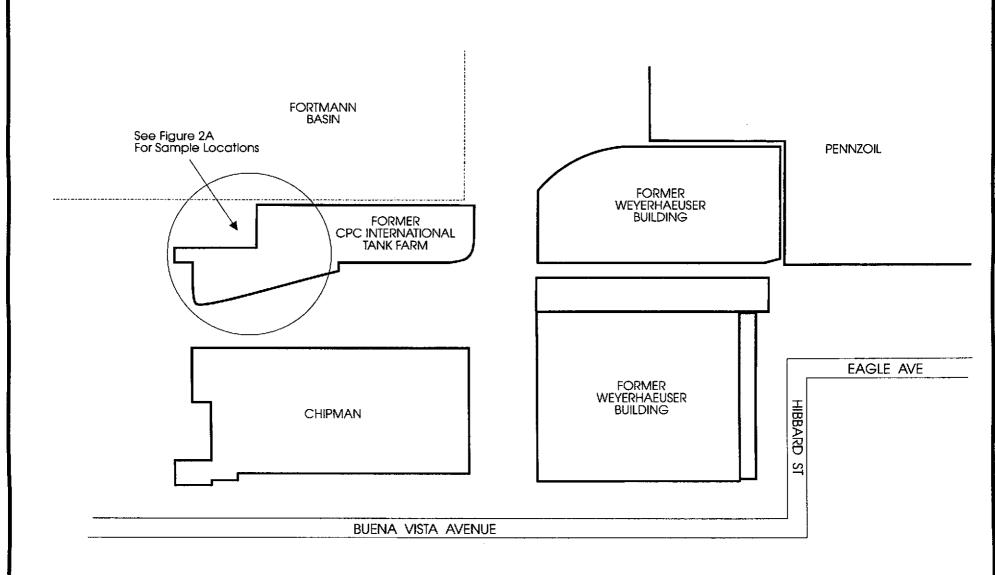


SITE LOCATION

Marina Cove Subdivision, Alameda, California

Figure

Project 2262





Scale: 1": ± 200'

January 2002

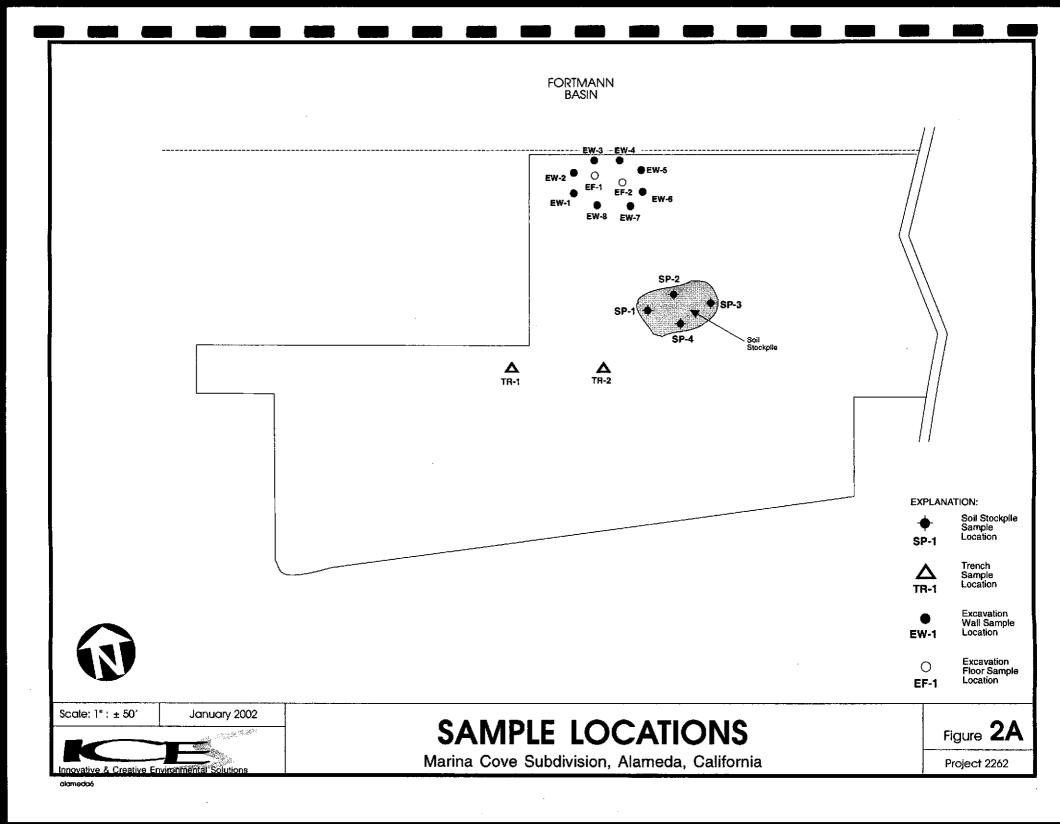


SAMPLE LOCATIONS

Marina Cove Subdivision, Alameda, California

Figure 2

Project 2262





Project Summary Report Sulfuric Acid Spill Cleanup

Former Weyerhauser Facility Alameda, California

Prepared for:

KB Home South Bay 2201 Walnut Avenue Suite 150 Fremont, CA 94538

Prepared by:

DECON Environmental Services 23490 Connecticut Street Hayward, CA 94545

October 4, 2001

#10 732 644A

A. Beckground

DECON Environmental Services, Inc. (DECON) was retained by KB Home South Bay to clean six caustic soda tanks and one sulfuric acid tank at the former Weyerhauser manufacturing facility located at 1521 Buena Vista Avenue in Alameda, California. These tanks had been used to store virgin product for use in the manufacturing of foodstutts at this facility. DECON's contract included removal of the liquid and sludge that remained in these tanks as well as cleaning the tanks so they could be crushed and transported to a steel recycling facility by Iconco, KB Home's demolition contractor.

The sulfuric acid tank at this facility was an above ground, horizontally-mounted steel tank 8 feet in diameter and 20 feet long. Just before 1:00 PM on July 25th, DECON's project manager noticed that this tank was leaking from a small hole in the southern end of the tank. This report describes the assessment and remediation activities performed by DECON in response to this leak.

B. Initial Response

Upon observing a slow, steady leak of sulfuric acid from the tank DECON immediately redirected on-site resources and mobilized an emergency response cleanup crew to control and contain the sulfuric acid release. Sulfuric acid that had pooled in the berned secondary containment area was pumped into poly drums using a 2-inch double diaphragm pump. The sulfuric acid remaining in the tank was also pumped into drums until the liquid level was well below the hole. A total of 12 drums were filled with sulfuric acid from the containment bern and the inside of the tank.

The sulfuric acid released from the tank leaked onto a layer of dirt that had accumulated inside the concrete secondary containment berm surrounding the tank, so not all of the liquid could be pumped into drums. OECON personnel placed absorbent on the spilled liquid that could not be pumped out of the containment area, using a total of 23 bags (575 pounds) of Superfine. This was enough material to soak up the visible liquid and cover the area of moist soil (approximately 80 square feet).

Based on the change in liquid level inside the tank prior to pumping down the remaining liquid as described above, DECON estimated that a telsi of 300 to 400 gallons of sulfuric acid had leaked from the tank. This amount exceeded the reportable quantity for sulfuric acid of 50 gallons, so DECON notified the following governmental agencies of this release:

National Spill Response Center Alameda Fire Department Alameda County Department of Environmental Health

The activities described in the previous three paragraphs were completed between 1:00 PM and 9:00 PM on July 25th. DECON demobilized from the site shortly before dark with the intention of returning the next morning to remove the acid-soaked soil and absorbent from within the bermed area. The concrete base of the secondary containment area would form an effective barrier against migration of sulturic acid into native soil for this short period of time.

C. The Second Day - A New Challenge

DECON mobilized to the site on July 26th prepared to shovel the acid-soaked absorbent and soil into drums and evaluate the condition of the underlying concrete pad. After digging down more than two feet in several locations without hitting concrete, DECON's project manager realized that either the concrete pad had been severely damaged by previous splits from the tank or did not exist. This latter possibility a pad had been severely damaged by previous splits from the tank or did not exist. This latter possibility a segmed unbelievable, in that during 20 years of performing this type of work DECON's project manager and principals have never encountered a site with a concrete containment wall that was not connected to

a concrete pad to form a true secondary containment area.

Unfortunately, further digging in the area of the spill confirmed that there was no concrete pad beneath the sulfuric acid tank. Upon reaching this conclusion, DECON ordered a small excavator with the reach and maneuverability necessary to remove the contaminated soil from the affected area. This excavator was delivered to the site early the following morning.

D. Assessment and Excavation

Based on the fact that there was no concrete pad to intercept the migration of sulfuric acid that leaked from the tank, DECON's approach shifted to one of determining the lateral and vertical extent of soil contamination resulting from this release while removing this contaminated soil from the affected area. Fortunately, the presence of acidic contamination in soil is readily detected in the field by simply measuring the pH of a soil sample using colorimetric pH paper. The basic approach, therefore, was to excavate moist or stained soil, sample adjacent areas to determine if they too were affected by the release, excavate additional soil found to have a low pH, and continue to "chase" the excavation in this manner until all soil samples from the sidewalls and bottom of the pit exhibited a neutral pH.

Implementation of this strategy began on the morning of July 27th. Prior to beginning the excavation and assessment activities, DECON needed to move the sulfuric acid tank out of the way. DECON pumped the flquid remaining in the tank into a separate poly tank mobilized to the site early that morning. Approximately 1100 gallons of sulfuric acid remaining in the steel tank were pumped into the poly tank.

Working with Iconco's field superintendent, DECON's project manager attempted to move the entire tank out of the way using the large excavator that Iconco had on site. This effort was unsuccessful, so DECON began to excavate the contaminated soil that was accessible while mobilizing the resources necessary to cold cut the top half of the steel tank and remove it in two pieces. Starting from the level area southwest of the release, DECON excavated approximately 20 cubic yards of visibly impacted soil down to a depth of four feet below grade. Samples taken from the base of this excavation had a pH between 5 and 6.

On Monday, July 30th DECON arrived at the site in the morning to find a small pool of persimple open pit which had a pH of 2. DECON pumped 20 to 30 gallons of perched groundwater into the poly tank and placed absorbent on the area to dry out the soil in this portion of the excavation. The level of this water was nearly 10 feet above the level of water in the estuary, so the water in the excavation could not have accumulated in the pit due to tidal activity.

DECON next focused on removing the steel tank to allow access to the remainder of the contaminated area. A pneumatic chisel was used to cut off the top half of the tank and loonco's excavator removed it from the bottom half. The studge remaining in the bottom half was then solidified using absorbent and placed on visqueen. Next the bottom half of the tank and the concrete saddles were moved out of the way so that the remainder of the contaminated area could be excavated and characterized. That afternoon an additional 25 to 30 cubic yards of soil were excavated and placed on visqueen. The pH of sidewall and bottom samples from the new portion of the excavation ranged from 3 along the eastern wall to 7 in the southwest corner. The excavator had to be repositioned to allow excavation of additional soil from the eastern wall of the pit, which required assistance from loonco.

On the morning of July 31st Iconco cleared a path and DECON positioned the excavator right next to the southern wall of the pit. DECON pumped out a small volume of free liquid and then excavated to remove additional soil from the east wall, north wall, and bottom of the pit. Each of these areas was sampled for pH after excavating an additional six inches of material. This pattern of free liquid removal, sampling, excavation and resampling continued for three more days until all sidewall and bottom samples had a pH between 7 and 8 (i.e. neutral). A total of 30 to 35 additional cubic yards of contaminated soil were removed from the pit between July 31st and August 3rd.

DECON returned to the site on August 15th after receiving profile approval for disposal of the contaminated soil. A small amount of water with a pH of 5 had accumulated in the northwest corner of the open excavation, so DECON pumped this water into the poly tank and excavated 2 to 3 more cubic yards of soil. This pattern continued for a few more days until all soil and water samples had a pH of at least 7.

Representatives from Isis, KB Home's environmental consultant, visited the site during this period of time and recommended that DECON dlg an exploratory trench 5 feet out from the northwest corner of the excavation to collect a soil sample at the same depth as the bottom of the pit. This soil sample had a pH of 7, confirming that this corner had effectively been cleaned up. The final excavated area was 18 feet long x 18 feet wide and had a depth of 8 to 9 feet below the starting grade.

E. Backfilling and Compaction

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The excavated area was backfilled to using crushed concrete from the stockpile generated by iconco's onsite demolition activities. This material was compacted to 90% of the relative dry density using a backhoe with a vibratory tamper attachment.

F. Transportation and Disposel

The contaminated soil was placed into lined roll off bins and profiled into Chemical Waste Management's Class 1 TSD facility at Kettleman Hills. The soil was accepted by this facility as a non-RCRA hazardous waste solid (i.e. a California hazardous waste) with a state waste code of 611. The manifest numbers, quantities, and shipping dates for the 8 bins of contaminated soil generated during this sulfuric acid spill cleanup are as follows:

| Manifest# | Shipping Date | Quantity (Tons) |
|-----------|-----------------------|------------------|
| 98398976 | 8-16-01 | 9.52 (1 bin) |
| 98398977 | 8-16-01 | 8.75 (1 bin) |
| 98398986 | 8-17-01 | 16.39 (1 bin) |
| 98398987 | g-17 -0 1 | . 14.67 (1 bin) |
| 98398990 | 8-29-01 | 9.65 (1 bin) |
| 98398991 | 8-27-01 | 18.68 (2 bins) |
| | 8-23-01 | 15.28 (1 bin) |
| 98398992 | 8-22-01 | 14.28 (1 bin) |
| 98398993 | . 8-28-0 1 | 18.70 (2 bins) |
| 96396995 | · 6-20-0 1 | |
| | Total | 126.12 (11 bins) |

Copies of these 9 manifests are attached.

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| | 4. Generator's Phone ((510) 795-4773 Attn: Henry | k Tery | | | | |
| 1 | 5. Transporter 1 Company Name ACTI C1A | | 1, 0 4,8 | | | W. Oracles |
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DTSC 90224 [4/97]

TSDF SENDS THIS CCPY TO GENERATOR WITHIN 30 DAYS.
IGenerators who submit hazardous waste for transport out-of-state,
produce completed copy of this copy and send to DTSC within 30 days.

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| 16. GENERATOR'S CERTIFICATION: I hereby deck | ere that the contents of this consignment are fully of proper condition for transport by highway occur | and accurately des | cribed abovi la internation | e by proper shipping not each national go | y name and are dos vernment regulation | sified. 13. |
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DTSC 8022A 14/971 EPA 8700—22 TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS.

IGenerators who submit hozordous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.

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| 3 | . Generator's Name and Mailing Address Kauffman Broad Homes South Bay | - | | A CALL | ial Docomers N | 79 | 83989 | | | | | | | |
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| 4 | i. Generator's Phane (1510) 795-4773 Attn: Henryk Tay | | | E | 174 | - 1-1-4 | 4313130 | | | | | | | |
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| [| P. Designated Facility Name and Site Address 10 US EPA ID Number Chemical W2ste Management Inc | | | 0 | 4777 | 264 | Callin | | | | | | | |
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| | IN CASE OF EMERGENCY CONTACT: DECON Environmental Services, Inc. (510) 475-2901 Ste pick up address: 1501 Buene Wish Avenue Alameda CA | | | | | | | | | | | | | |
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| F A | 20 Facility Owner or Operator Carmication of receipt of hazardous materials covered by the Prigned Typed Name Signature | his monified except as | gred in Ite | -m 19 | | | Month Day | | | | | | | |

OTSC 8022A (4/97) EPA 8700-22

(Generators who submit hazardous waste for transport aut-of-state, produce completed copy of this copy and send to DTSC within 30 days.)

| 1 | , ((39/MPG)OX 3 O3 C) ~ (20) | ifest Document | No. | 2. Page 1 | Information in the shaded area is not required by Federal law. | | | | | | | | | | |
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| \vdash | 3. Generator's Name and Mailing Address - Kauffrsian Groad Homes South Bay | | | militar Documents | 7983989 | | | | | | | | | | |
| | 2201 Walnut Avenue, Suite 150, Fremont, CA 94538 | | B// State G | selection's ID; | TO ME PORT OF THE PARTY OF THE | | | | | | | | | | |
| | 4. Generator's Phone 1 (510) 795-4773 Attn: Henryk Tay | | 200 | 阿爾斯 | | | | | | | | | | | |
| - | 5. Transporter 1 Company Name 6. US EPA ID Number | | C. Sante | enteorier ATD | | | | | | | | | | | |
| | Universal Environmental C ₁ A ₁ D 9 8 3 6 5 | 2 2 7 2 | Differen | netaris Phone 73 | HAM (707) 741-6 | | | | | | | | | | |
| - | 7, Transparter 2 Company Name 8, US EPA ID Number | | E: State T | bheodal (ID | | | | | | | | | | | |
| | | 111. | F. Transpi | efer's Phone (19) | 公共以及对于国际 | | | | | | | | | | |
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| I | 15. Special Handling Instructions and Additional Information | | A KANTAN SE | Caraminate Contractors | | | | | | | | | | | |
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| | IN CASE OF EMERGENCY CONTACT: DECON Environmental Services, Inc. (510) 475-2501 | | | | | | | | | | | | | | |
| | Site pick up address: 1521 Buene Vista Avenue Alameda | CA | | | - terrified made | | | | | | | | | | |
| | 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and | ing to applicable | cribed dibovi le internatio | ה מקפירני proper איז ppin nal and national go | g rame and the comment, part vernment regulations. | | | | | | | | | | |
| | 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and occurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. The respect to the degree I have determined to be economic. | | | | | | | | | | | | | | |
| | If i am a large quantity generator, I certify that I have a program in place to reduce the volume and soxicity of waste generated to the degree I have determined to be economic precisable and that I have selected the practicable method of treatment, storage, or disposal currently everlable to me which minimizes the present and future threat to human precisable and that I have selected the practicable method and the environment; QR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method. | | | | | | | | | | | | | | |
| - 34 2 44 | and the environment; OK III am a strain quantity generally, available to me and that I can afford. | | | | Month Day | | | | | | | | | | |
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DTSC 8022A (4/97) EPA 8700—22 TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS.
[Generators who submit hozardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.]

| AT CAME | mia—Environmental Protection Agency d OMS No. 2050-0039 (Expires 9-30-99) type. Form designed for use on elite (12-pitch) | | <u> </u> | | | cromento, Calif |
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| 1 | 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully an marked, and labeled, and are in all respects in proper condition for transport by highway occurred. | d occurately de: | gel bed abov No inversatio | re by proper shipping and and national go | менциона, ца В мение фист | guigitions. |
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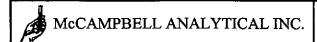
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TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS.
IGenerators who submit hozordous waste for monsport out-of-state,
produce completed copy of this copy and send to DTSC within 30 days



APPENDIX B

LABORATORY CERTIFICATES



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

| ICES | Client Project ID: #2262; Alameda | Date Sampled: 10/15/01 | | | | |
|----------------------|-----------------------------------|--------------------------|--|--|--|--|
| P O Box 99288 | Subdivision | Date Received: 10/15/01 | | | | |
| Emeryville, CA 94662 | Client Contact: Peng Leong | Date Extracted: 10/15/01 | | | | |
| | Client P.O: | Date Analyzed: 10/15/01 | | | | |

10/22/01

Dear Peng:

Enclosed are:

- 1). the results of 6 samples from your #2262; Alameda Subdivision project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Edward Hamilton, Lab Director

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Telephone: 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

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| Emeryville, CA 94662 | | | | ent Contact: Peng Leong | Date Extracted: 10/15/01 | | | | | | | | |
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| 80774 | EW-4 | s | | 7.00 (| 0 @ 26.2° C | | | | | | | | |
| 80775 | EW-5 | s | | 7.22 (| 2 @ 26.1℃ | | | | | | | | |
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DHS Certification No. 1644



__Edward Hamilton, Lab Director

1:1 distal water



CHAIN-OF-CUSTODY



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PO Box 99288 • Emeryville • CA 94662-9288 Tel (510) 652-3222 • Fax (510) 652-3555

| Project Nam | ne | Projec | Project No. ANALYSIS | | | | | | Laboratory Name/Address | | | | | | | |
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| Lab Number | ICES Sample Identification | Date Collected | Sample Type | No. of Cont. | F | | | | | Comments / Hazards | | | | | | |
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| | EW-3 | 10-15-01 | Soil | 1 | X | | | | | 80773 | | | | | | |
| | EW-4 | 10-15-01 | Soil |] | Х | | | | | | | | | | | |
| | EW-5 | 10-15-01 | Soll | 1 | X | | | | | 80774 | | | | | | |
| | EW-6 | 10-15-01 | Soil | 1 | X | | | | | 80775 | | | | | | |
| | EW-8 | 10-15-01 | Soll | 1 | X | , | | | | 80776 | | | | | | |
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| Relinquished by: (Signature) | J. Dutto | /0//5 pate | Ť | IME | (Signature) Received by: (Signature) ICF/(®) | \mathcal{M}_{\perp} | | <u>OUV</u> PRESERVATIO | | DATE TIME METALS OTHER | | | | | | |
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110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

| ICES | Client Project ID: #2262; Alameda | Date Sampled: 10/15/01 |
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| P O Box 99288 | Subdivision | Date Received: 10/15/01 |
| Emeryville, CA 94662 | Client Contact: Peng Leong | Date Extracted: 10/15/01 |
| | Client P.O: | Date Analyzed: 10/15/01 |

10/22/01

Dear Peng:

Enclosed are:

- 1). the results of 2 samples from your #2262; Alameda Subdivision project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Edward Hamilton, Lab Director



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CHAIN-OF-CUSTODY
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PO Box 99288 • Emeryville • CA 94662-9288 Tel (510) 652-3222 • Fax (510) 652-3555

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TURNAROUND TIME:

NOTE: Please send reports and involces to the above address.

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Page _____ of ____



| ICES | Client Project ID: #2262; Alameda | Date Sampled: 10/15/01 | | |
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| P O Box 99288 | Subdivision | Date Received: 10/15/01 | | |
| Emeryville, CA 94662 | Client Contact: Peng Leong | Date Extracted: 10/15/01 | | |
| | Client P.O: | Date Analyzed: 10/15/01 | | |

10/22/01

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| ICES P O Box 99288 | | | | ent Project ID: #2262; Alameda odivision | Date Sampled: 10/15/01 Date Received: 10/15/01 | | | | | | |
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| Emeryvill | e, CA 94662 | | Cli | ent Contact: Peng Leong | Date Extracted: 10/15/01 | | | | | | |
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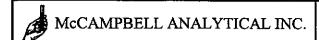


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PO Box 99288 • Emeryville • CA 94662-9288 Tel (510) 652-3222 • Fax (510) 652-3555

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| Lab Number | ICES Sample Identification | Date Collected | Sample Type | No. of Cont. | ··· | На | | | | | | | Comments / Hazards |
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| | EF-1 | 10-15-01 | Soil | . 1 | | Х | | | | | | | 80768 |
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| | | DATE | 1 | TIME | | | | | | | | <u> </u> | ATE / TIME |
| Relinquished by: (Signature) | De my | 10.15-0 | | 1:40 | Receir (Signa | ved by: iture) | ?< | ∫′≺ | ζ, | 19 | 4 | / | 115 1:40 |
| Relinquished by: (Signature) | B. Buth | DATE 10/16 | | TIME | Recei (Signa | ved by: |). [. | D | مر اللا | 2/ | | <i>(</i> | AVE TIME |
| Relinquished by: (Signature) | | DATE | | TIME | Recei (Signa | ved by: iture) | * | <u> </u> | | | | D | ATE TIME |

NOTE: Please send reports and involces to the above address.



| ICES | Client Project ID: #2262; Alameda | Date Sampled: 10/15/01 | | |
|----------------------|-----------------------------------|--------------------------|--|--|
| P O Box 99288 | Subdivision | Date Received: 10/15/01 | | |
| Emeryville, CA 94662 | Client Contact: Peng Leong | Date Extracted: 10/15/01 | | |
| | Client P.O: | Date Analyzed: 10/15/01 | | |

10/22/01

Dear Peng:

Enclosed are:

- 1). the results of 1 samples from your #2262; Alameda Subdivision project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

| ICES P O Box 99288 Emeryville, CA 94662 | | | | ent Project ID: #2262; Alameda odivision ent Contact: Peng Leong ent P.O: | Date Sampled: 10/15/01 Date Received: 10/15/01 Date Extracted: 10/15/01 Date Analyzed: 10/15/01 | | | | | | |
|---|---|------|----|--|--|--|--|--|--|--|--|
| Analytical methods | | | | рН ЕРА 150.1, 9040, 9045 | | | | | | | |
| Lab ID | Client ID | Mati | ix | рН (| @_ ° C | | | | | | |
| 80769 | EF-2 | S | | 6.46 @ | 226.1℃ | | | | | | |
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| Accuracy | Limit or Method unless otherwise | w | | ± (| 0.05 | | | | | | |
| stated; ND above the re | means not detected eporting limit; N/A not applicable | s | | ± | 0.1 | | | | | | |
| Reporting Units | | | | - log(<i>a</i> ң | ')@_℃ | | | | | | |





CHAIN-OF-CUSTODY



28235 Zices 296

PO Box 99288 • Emeryville • CA 94662-9288 Tel (510) 652-3222 • Fax (510) 652-3555

| Project Name | Project Name | | | Project No. | | | | AN/ | ALYSIS | | Laboratory Name/Address | | | |
|--|-------------------------------------|-------------------|----------------|-----------------|-----------------|--|-----------------|--------------------|-----------|------|--------------------------------|-------|-----------------------------|----------|
| , | Alameda Subdivi Alameda, Califoi | ision rnia | - | ICES _2262 | | | | | | | | | McCampbell Analytical | |
| Lab Number | ICES Sample Identification | Date Collected | Sample Type | No. of Cont. | | Ha | | | | | | | Comments / Hazards | |
| | EF-2 | 10-15-01 | Soil | 1 | | Х | | | | | | | 80769 | |
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| Relinquished by: (Signature) | xk my | DATE 10.15 | ا ت | TIME / 140 | Recel (Signa | ved by: | 3 | . 4 | 3 | w | Ho. | 10 | | to) |
| Relinquished by: (Signature) Relinquished by: (Signature) | 3. Butto | 10/15 DAYE | | TIME | | ved by: ature) ved by: ature) | I.e | lÜ. | la | D | our. | 1 | TIME 10/15 2:30 DATE TIME | <u>C</u> |

TURNAROUND TIME:

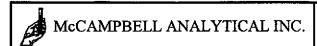
NOTE : Please send reports and invoices to the above address.

24 Hours

48 Hours

O 3 Days

O Normal : 5 Days



| ICES | Client Project ID: #2262; Alameda | Date Sampled: 10/15/01 | | |
|----------------------|-----------------------------------|--------------------------|--|--|
| P O Box 99288 | Subdivision | Date Received: 10/15/01 | | |
| Emeryville, CA 94662 | Client Contact: Peng Leong | Date Extracted: 10/15/01 | | |
| | Client P.O: | Date Analyzed: 10/15/01 | | |

10/22/01

Dear Peng:

Enclosed are:

- 1). the results of 2 samples from your #2262; Alameda Subdivision project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

| ICES | Client Project ID: #2262; Alameda | Date Sampled: 10/15/01 | | |
|----------------------|-----------------------------------|--------------------------|--|--|
| P O Box 99288 | Subdivision | Date Received: 10/15/01 | | |
| Emeryville, CA 94662 | Client Contact: Peng Leong | Date Extracted: 10/15/01 | | |
| | Client P.O: | Date Analyzed: 10/19/01 | | |
| EDA method 9260 | Volatile Organics By GC/MS | | | |

| Ì | EPA method 8260 | |
|---|-----------------|-------|
| I | Lab ID | 80782 |
| ı | Client ID | TR-1 |
| ı | Matrix | S |

| Matrix | | | | S | i | r | | |
|------------------------------|----------------|-----|----------|-----------------------------------|----------------|---------------|-----|--|
| Compound | Concentration* | | ıg Limit | Compound | Concentration* | Reportin W | | |
| (1) | | W | S | | | ,,, | S | |
| Acetone (b) | 160 | 5.0 | 25 | trans-1,3-Dichloropropene | ND | 1.0 | 5.0 | |
| Benzene | ND | 1.0 | 5.0 | Ethylene dibromide | ND | 1.0 | 5.0 | |
| Bromobenzene | ND | 1.0 | 5.0 | Ethylbenzene | ND | 1.0 | 5.0 | |
| Bromochloromethane | ND | 1.0 | 5.0 | Hexachlorobutadiene | ND | 5.0 | 25 | |
| Bromodichloromethane | ND | 1.0 | 5.0 | Iodomethane | ND | 1.0 | 5.0 | |
| Bromoform | ND | 1.0 | 5.0 | Isopropylbenzene | ND | 1.0 | 5.0 | |
| Bromomethane | ND | 1.0 | 5.0 | p-Isopropyl toluene | ND | 1.0 | 5.0 | |
| n-Butyl benzene | ND | 1.0 | 5.0 | Methyl butyl ketone (d) | ND | 1.0 | 5.0 | |
| sec-Butyl benzene | ND | 1.0 | 5.0 | Methylene Chloride ^(e) | ND | 1.0 | 5.0 | |
| tert-Butyl benzene | ND | 1.0 | 5.0 | Methyl ethyl ketone (f) | 83 | 2.0 | 10 | |
| Carbon Disulfide | 20 | 1.0 | 5.0 | Methyl isobutyl ketone (8) | ND | 1.0 | 5.0 | |
| Carbon Tetrachloride | ND | 1.0 | 5.0 | Methyl tert-Butyl Ether (MTBE) | | 1.0 | 5.0 | |
| Chlorobenzene | ND | 1.0 | 5.0 | Naphthalene | ND | 5.0 | 5.0 | |
| Chloroethane | ND | 1.0 | 5.0 | n-Propyl benzene | ND | 1.0 | 5.0 | |
| 2-Chloroethyl Vinyl Ether(c) | ND | 1.0 | 5.0 | Styrene (x) | ND | 1.0 | 5.0 | |
| Chloroform | ND | 1.0 | 5.0 | 1,1,1,2-Tetrachloroethane | ND | 1.0 | 5.0 | |
| Chloromethane | ND | 1.0 | 5.0 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 5.0 | |
| 2-Chlorotoluene | ND | 1.0 | 5.0 | Tetrachloroethene | ND | 1.0 | 5.0 | |
| 4-Chlorotoluene | ND | 1.0 | 5.0 | Toluene (I) | ND | 1.0 | 5.0 | |
| Dibromochloromethane | ND | 1.0 | 5.0 | 1,2,3-Trichlorobenzene | ND | 5.0 | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | 10 | 1,2,4-Trichlorobenzene | ND | 5.0 | 25 | |
| Dibromomethane | ND | 1.0 | 5.0 | 1,1,1-Trichloroethane | ND | 1.0 | 5.0 | |
| 1,2-Dichlorobenzene | ND | 1.0 | 5.0 | 1,1,2-Trichloroethane | ND | 1.0 | 5.0 | |
| 1,3-Dichlorobenzene | ND | 1.0 | 5.0 | Trichloroethene | ND | 1.0 | 5.0 | |
| 1,4-Dichlorobenzene | ND | 1.0 | 5.0 | Trichlorofluoromethane | ND | 1.0 | 5.0 | |
| Dichlorodifluoromethane | ND | 1.0 | 5.0 | 1,2,3-Trichloropropane | ND | 1.0 | 5.0 | |
| 1,1-Dichloroethane | ND | 1.0 | 5.0 | 1,2,4-Trimethylbenzene | ND | 1.0 | 5.0 | |
| 1,2-Dichloroethane | ND | 1.0 | 5.0 | 1,3,5-Trimethylbenzene | ND | 1.0 | 5.0 | |
| 1,1-Dichloroethene | ND | 1.0 | 5.0 | Vinyl Acetate (m) | ND | 5.0 | 25 | |
| cis-1,2-Dichloroethene | ND | 1.0 | 5.0 | Vinyl Chloride (n) | ND | 1.0 | 5.0 | |
| trans-1,2-Dichloroethene | ND | 1.0 | 5.0 | Xylenes, total (0) | ND | 1.0 | 5.0 | |
| 1,2-Dichloropropane | ND | 1.0 | 5.0 | Comments: | | | | |
| 1,3-Dichloropropane | ND | 1.0 | 5.0 | Surrogate R | ecoveries (%) | | | |
| 2,2-Dichloropropane | ND | 1.0 | 5.0 | Dibromofluoromethane | | 9 | 6 | |
| 1,1-Dichloropropene | ND | 1.0 | 5.0 | Toluene-d8 | | 10 | 05 | |
| cis-1,3-Dichlоторгореле | ND | 1.0 | 5.0 | 4-Bromofluorobenzene | | 1 | 116 | |

^{*}water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

DHS Certification No. 1644

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

⁽b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

| ICES | Client | | ID: #2 | 262; Alameda | Date Sampled: 10/15/01 | | | | |
|------------------------------|----------------|----------|------------------------------|--|------------------------|--------------------|--------------|--|--|
| P O Box 99288 | Subdiv | 151011 | | | ate Received: 10/1: | leceived: 10/15/01 | | | |
| Emeryville, CA 94662 | Client | Contac | t: Peng | Pate Extracted: 10/1 | Extracted: 10/15/01 | | | | |
| | Client | P.O: | | Γ | ate Analyzed: 10/1 | 9/01 | | | |
| EPA method 8260 | 1 | Volatile | Orga | nics By GC/MS | | | • • • | | |
| Lab ID | <u> </u> | - | | 80783 | | | | | |
| Client | | | | TR-2 | | | - | | |
| Matrix | | | | S | | | | | |
| | | Reportir | or I instit | i | | Reportin | o I imit | | |
| Compound | Concentration* | W | S | Compound | Concentration* | W | S | | |
| Acetone (b) | 130 | 5.0 | 25 | trans 1.2 Dicklaraneana | ND | 1.0 | 5.0 | | |
| Benzene | ND 130 | 1.0 | 5.0 | trans-1,3-Dichloropropene Ethylene dibromide | ND ND | 1.0 | 5.0 | | |
| Bromobenzene | ND | 1.0 | 5.0 | Ethylbenzene | ND ND | 1.0 | 5.0 | | |
| Bromochloromethane | ND | 1.0 | 5.0 | Hexachlorobutadiene | ND ND | 5.0 | 25 | | |
| Bromodichloromethane | ND ND | 1.0 | 5.0 | Iodomethane | ND ND | 1.0 | 5.0 | | |
| Bromoform | ND | 1.0 | 5.0 | Isopropylbenzene | ND ND | 1.0 | 5.0 | | |
| Bromomethane | ND ND | 1.0 | 5.0 | p-Isopropyl toluene | ND ND | 1.0 | 5.0 | | |
| n-Butyl benzene | ND | 1.0 | 5.0 | Methyl butyl ketone (d) | 16 | 1.0 | 5.0 | | |
| sec-Butyl benzene | ND | 1.0 | 5.0 | Methylene Chloride ^(e) | ND ND | 1.0 | 5.0 | | |
| tert-Butyl benzene | ND | 1.0 | 5.0 | Methyl ethyl ketone (1) | 220 | 2.0 | 10 | | |
| Carbon Disulfide | 11 | 1.0 | 5.0 | Methyl isobutyl ketone (g) | ND ND | 1.0 | 5.0 | | |
| Carbon Tetrachloride | ND | 1.0 | 5.0 | Methyl tert-Butyl Ether (MT | | 1.0 | 5.0 | | |
| Chlorobenzene | ND | 1.0 | 5.0 | Naphthalene | ND ND | 5.0 | 5.0 | | |
| Chloroethane | ND | 1.0 | 5.0 | n-Propyl benzene | ND ND | 1.0 | 5.0 | | |
| 2-Chloroethyl Vinyl Ether(c) | ND | 1.0 | 5.0 | Styrene (k) | ND | 1.0 | 5.0 | | |
| Chloroform | ND | 1.0 | 5.0 | 1,1,1,2-Tetrachloroethane | ND | 1.0 | 5.0 | | |
| Chloromethane | ND | 1.0 | 5.0 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 5.0 | | |
| 2-Chlorotoluene | ND | 1.0 | 5.0 | Tetrachloroethene | ND | 1.0 | 5.0 | | |
| 4-Chlorotoluene | ND | 1.0 | 5.0 | Toluene (1) | ND | 1.0 | 5.0 | | |
| Dibromochloromethane | ND | 1.0 | 5.0 | 1,2,3-Trichlorobenzene | ND | 5.0 | 25 | | |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | 10 | 1,2,4-Trichlorobenzene | ND | 5.0 | 25 | | |
| Dibromomethane | ND | 1.0 | 5.0 | 1,1,1-Trichloroethane | ND | 1.0 | 5.0 | | |
| 1,2-Dichlorobenzene | ND | 1.0 | 5.0 | 1,1,2-Trichloroethane | ND | 1.0 | 5.0 | | |
| 1,3-Dichlorobenzene | ND | 1.0 | 5.0 | Trichloroethene | ND | 1.0 | 5.0 | | |
| 1,4-Dichlorobenzene | ND | 1.0 | 5.0 | Trichlorofluoromethane | ND | 1.0 | 5.0 | | |
| Dichlorodifluoromethane | ND | 1.0 | 5.0 | 1,2,3-Trichloropropane | ND | 1.0 | 5.0 | | |
| 1,1-Dichloroethane | ND | 1.0 | 5.0 | 1,2,4-Trimethylbenzene | ND | 1.0 | 5.0 | | |
| 1,2-Dichloroethane | ND | 1.0 | 5.0 | 1,3,5-Trimethylbenzene | ND | 1.0 | 5.0 | | |
| 1,1-Dichloroethene | ND | 1.0 | 5.0 | Vinyl Acetate (m) | ND | 5.0 | 25 | | |
| cis-1,2-Dichloroethene | ND | 1.0 | 5.0 | Vinyl Chloride (a) | ND | 1.0 | 5.0 | | |
| trans-1,2-Dichloroethene | ND | 1.0 | 5.0 | Xylenes, total (0) | ND | 1.0 | 5.0 | | |
| 1,2-Dichloropropane | ND | 1.0 | 5.0 | Comments: | | | | | |
| 1,3-Dichloropropane | ND | 1.0 | 5.0 Surrogate Recoveries (%) | | | | | | |
| 2,2-Dichloropropane | ND . | 1.0 | 5.0 | Dibromofluoromethane | | 10 | | | |
| 1,1-Dichloropropene | ND | 1.0 | 5.0 | Toluene-d8 | | |)3 | | |
| cis-1,3-Dichloropropene | ND | 1.0 | 5.0 | 4-Bromofluorobenzene | | 11 | 16 | | |

^{*}water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

DHS Certification No. 1644

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

⁽b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

| ICES P O Box 9 | 9288 | • | Clic Sub | ent Project ID; #2262; Alameda edivision | Date Sampled: 10/15/01 Date Received: 10/15/01 | | | | |
|--------------------------|--|------|-----------------------|---|---|--|--|--|--|
| | e, CA 94662 | | Clie | ent Contact: Peng Leong | Date Extracted: 10/15/01 | | | | |
| | | | Clie | ent P.O: | Date Analyzed: 10/15/01 | | | | |
| | | | | 1 | он | | | | |
| | Analytical method | S | EPA 150.1, 9040, 9045 | | | | | | |
| Lab ID | Client ID | Matr | ix | рН | @_°C | | | | |
| 80782 | TR-1 | s | | 6.63 @ |) 26.2°C | | | | |
| 80783 | TR-2 | S | | 5.18 @ |) 26.2°C | | | | |
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| Reporting | Limit or Method | | | | 0.05 | | | | |
| Accuracy stated; ND r | unless otherwise neans not detected porting limit; N/A | W | | | 0.05 | | | | |
| means i | not applicable | S | | | 0.1 | | | | |
| Repo | | | - $\log(a_{\rm f})$ | †)@_ ° C | | | | | |



110 2nd Ave. South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622

http://www.mccampbell.com E-mail: main@mccampbell.com

QC REPORT

VOCs (EPA 8240/8260)

10/10/01-10/20/01

Extraction: EDA 5030

| Date: 10/19/01-10/20/01 | Extraction | : EPA: | 5030 | | mausx. | 2011 | |
|-------------------------|------------|---------|----------|------------------|-----------|--------------|------|
| | | Concent | tration: | ug/kg | %Rec | overy | |
| Compound | Sample | MS | MSD | Amount Spiked | MS | MSD | RPD |
| SampleID: 101901 | | | | | instrumer | <u>nt:</u> G | C-4 |
| Surrogate | ND | 102.0 | 112.0 | 100.00 | 102 | 112 | 9.3 |
| tert-Amyl Methyl Ether | ND | 42.0 | 43.5 | 50.00 | 84 | 87 | 3.5 |
| Methyl tert-Butyl Ether | ND | 37.5 | 40.0 | 50.00 | 75 | 80 | 6.5 |
| Ethyl tert-Butyl Ether | ND | 44.5 | 46.0 | 50.00 | 89 | 92 . | 3.3 |
| Di-isopropyl Ether | ND | 58.5 | 61.0 | 50.00 | 117 | 122 | 4.2 |
| Toluene | ND | 54.5 | 56.0 | 50.00 | 109 | 112 | 2.7 |
| Benzene | ND | 60.5 | 62.0 | 50.00 | 121 | 124 | 2.4 |
| Chlorobenzene | ND | 48.5 | 49.5 | 50.00 | 97 | 99 | 2.0 |
| Trichloroethane | ND | 42.5 | 43.0 | 50.00 | 85 | 86 | 1.2 |
| 1,1-Dichloroethene | ND | 50.0 | 41.5 | 50.00 | 100 | 83 | 18.6 |

% Re covery =
$$\frac{(MS-Sample)}{AmountSpiked} \cdot 100$$



NOTE : Please send reports and invoices to the above address.

TURNAROUND TIME:

CHAIN-OF-CUSTODY



28239 Zices 300

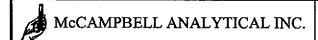
O 3 Days

Normal : 5 Days

PO Box 99288 • Emeryvilla • CA 94662-9288 Tel (510) 652-3222 • Fax (510) 652-3555

a was na terustes

| Project Nar | me | | Projec | ct No. | | | | ANAL | YSIS | | Laboratory Name/Address |
|-----------------------------------|---------------------------------|-------------------|----------------|-----------------|---------------------|----------------|---------|----------|----------|--------------|--------------------------|
| · | Alameda Subdl Alameda, Calif | ivision ornia | | ICES 2262 | | | | | | | McCampbell Analytical |
| Lab Number | ICES Sample Identification | Date Collected | Sample Type | No. of Cont. | . (| VOCs | Ha | | | | Comments / Hazards |
| | | - | | · | | | | | - | 90790 | |
| | TR-1 | 10-15-01 | Soll | 1 | | Χ | X | | ⊒ | 80782 | Analyze VOCs on |
| | TR-2 | 10-15-01 | Soll | 1. | | Χ | X | | | 80783 | normal TAT. |
| | | | | | | | | | ÷ . | 00700 | |
| | | | | | | | | | | | Analyze pH on |
| | | | | | | | <u></u> | | | | 48-hour TAT. |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| Relinquished by: " (Signature) | Juke wy | DATE (D · \5 · 0 | <u> 1</u> | YO . | Receive (Signati | ad by: ure) | B | , {< |) }_u | Ets. | 10/15 1,40 |
| Relinquished by: (Signature) | BButto | 10/15 | | TIME | Receive (Signati | ad by: ure) | Λ | Da | NI. | ſ | DATE TIME |
| Relinquished by: (Signature) | | DATE | | rime - | Receive (Signati | | ICE/I® | | J | PRESERVATION | |
| | | | , | | | | AAAA / | MODITION | | APPROPRIAT | |



| ICES | Client Project ID: #2262; Alameda | Date Sampled: 10/15/01 | | |
|------------------------------------|-----------------------------------|--------------------------|--|--|
| P O Box 99288 Emeryville, CA 94662 | Subdivision | Date Received: 10/15/01 | | |
| | Client Contact: Peng Leong | Date Extracted: 10/15/01 | | |
| | Client P.O: | Date Analyzed: 10/15/01 | | |

10/22/01

Dear Peng:

Enclosed are:

- 1). the results of 4 samples from your #2262; Alameda Subdivision project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

dward Hamilton I ah Director

| ICES | | II | - | ID: #2 | 262; Alameda | Date S | Sampled: 10/15/ | 01 | | |
|------------------------------|--|------------|---------------|-------------|--------------------------------|---------------------------------------|------------------|-------------|---------|--|
| P O Box 99288 | | Subdiv | ision | | | Date F | Received: 10/15. | /01 | | |
| Emeryville, CA 94662 | | Client (| Contact | : Peng | Leong | Date Extracted: 10/15/01 | | | | |
| | | Client l | P.O: | | | Date Analyzed: 10/19/01 | | | | |
| | | 7 | olatile | Orga | nies By GC/MS | | • | | | |
| EPA method 8260 | | | | | | | | | | |
| Lab ID | | | | | 80778 | | | | • | |
| Client | | | | | SP-1 | | | | | |
| Matrix | | | | | S | | | | | |
| Hunix | | | | - × · · · · | | | | Reportin | - 1 JJs | |
| Compound | Conc | entration* | Reportin W | S | Compound | | Concentration* | W | S | |
| Acetone (b) | N | (D<35 | 5.0 | 25 | trans-1,3-Dichloroproper | ıe | ND | 1.0 | 5.0 | |
| Benzene | - | ND | 1.0 | 5.0 | Ethylene dibromide | | ND | 1.0 | 5.0 | |
| Bromobenzene | 1 | ND | 1.0 | 5.0 | Ethylbenzene | | ND | 1.0 | 5.0 | |
| Bromochloromethane | l - | ND | 1.0 | 5.0 | Hexachlorobutadiene | | ND | 5.0 | 25 | |
| Bromodichloromethane | | ND | 1.0 | 5.0 | Iodomethane | - | ND | 1.0 | 5.0 | |
| Bromoform | | ND | 1.0 | 5.0 | Isopropylbenzene | · · · · · · · · · · · · · · · · · · · | ND | 1.0 | 5.0 | |
| Bromomethane | | ND | 1.0 | 5.0 | p-Isopropyl toluene | | ND | 1.0 | 5.0 | |
| n-Butyl benzene | | ND | 1.0 | 5.0 | Methyl butyl ketone (d) | | ND | 1.0 | 5.0 | |
| sec-Butyl benzene | | ND | 1.0 | 5.0 | Methylene Chloride(e) | | ND | 1.0 | 5.0 | |
| tert-Butyl benzene | | ND | 1.0 | 5.0 | Methyl ethyl ketone (i) | | ND | 2.0 | 10 | |
| Carbon Disulfide | | ND | 1.0 | 5.0 | Methyl isobutyl ketone (8) | | ND | 1.0 | 5.0 | |
| Carbon Tetrachloride | | ND | 1.0 | 5.0 | Methyl tert-Butyl Ether (MTBE) | | u=- | 1.0 | 5.0 | |
| Chlorobenzene | | ND | 1.0 | 5.0 | Naphthalene | <u></u> | ND | 5.0 | 5.0 | |
| Chloroethane | | ND | 1.0 | 5.0 | n-Propyl benzene | | ND | 1.0 | 5.0 | |
| 2-Chloroethyl Vinyl Ether(c) | | ND | 1.0 | 5.0 | Styrene (k) | | ND | 1.0 | 5.0 | |
| Chloroform | | ND | 1.0 | 5.0 | 1,1,1,2-Tetrachloroethan | e | ND | 1.0 | 5.0 | |
| Chloromethane | - | ND | 1.0 | 5.0 | 1,1,2,2-Tetrachloroethan | | ND | 1.0 | 5.0 | |
| 2-Chlorotoluene | | ND | 1.0 | 5.0 | Tetrachioroethene | | ND | 1.0 | 5.0 | |
| 4-Chlorotoluene | | ND | 1.0 | 5.0 | Toluene (1) | | ND | 1.0 | 5.0 | |
| Dibromochloromethane | | ND | 1.0 | 5.0 | 1.2.3-Trichlorobenzene | | ND | 5.0 | 25 | |
| 1,2-Dibromo-3-chloropropane | | ND | 2.0 | 10 | 1.2.4-Trichlorobenzene | | ND | 5.0 | 25 | |
| Dibromomethane | | ND | 1.0 | 5.0 | 1,1,1-Trichloroethane | | ND | 1.0 | 5.0 | |
| 1.2-Dichlorobenzene | | ND | 1.0 | 5.0 | 1.1.2-Trichloroethane | | ND | 1.0 | 5.0 | |
| 1,3-Dichlorobenzene | | ND | 1.0 | 5.0 | Trichloroethene | | ND | 1.0 | 5.0 | |
| 1.4-Dichlorobenzene | | ND | 1.0 | 5.0 | Trichlorofluoromethane | | ND | 1.0 | 5.0 | |
| Dichlorodifluoromethane | | ND | 1.0 | 5.0 | 1,2,3-Trichloropropane | | ND | 1.0 | 5.0 | |
| 1,1-Dichloroethane | | ND | 1.0 | 5.0 | 1.2.4-Trimethylbenzene | | ND | 1.0 | 5.0 | |
| 1,2-Dichloroethane | t | ND | 1.0 | 5.0 | 1,3,5-Trimethylbenzene | | ND | 1.0 | 5.0 | |
| 1,1-Dichloroethene | 1 | ND | 1.0 | 5.0 | Vinyl Acetate (m) ND | | | 5.0 | 25 | |
| cis-1,2-Dichloroethene | h | ND | 1.0 | 5.0 | Vinyl Chloride (n) | | ND | 1.0 | 5.0 | |
| trans-1,2-Dichloroethene | ! | ND | 1.0 | 5.0 | Xylenes, total (0) | | ND | 1.0 | 5.0 | |
| 1.2-Dichloropropane | | ND | 1.0 | 5.0 | Comments: | | · | | | |
| 1,3-Dichloropropane | | ND | 1.0 | 5.0 | | rogate Re | ecoveries (%) | | | |
| 2,2-Dichloropropane | \vdash | ND | 1.0 | 5.0 | Dibromofluoromethane | - aBuse Er | (/*/ | 9 | 5 | |
| 1,1-Dichloropropene | | ND | 1.0 | 5.0 | Toluene-d8 | | | | 06 | |
| -3 | | | | 1 | - 3.44 | | | | | |

water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

1.0 5.0 4-Bromofluorobenzene

ND

DHS Certification No. 1644

cis-1,3-Dichloropropene

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

⁽b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

| ICES | | | | ID: #2 | 262; Alameda | Date S | ampled: 10/15/ | 01 ———— | | | |
|---|--------|----------------------|---------|-------------|-----------------------------------|------------------------------|------------------------|------------|------------|--|--|
| P O Box 99288 | | Subdiv | ision | | | Date F | Received: 10/15 | /01 | | | |
| Emeryville, CA 94662 | | Client (| Contact | · Deno | Leong | Date F | extracted: 10/15 | /01 | | | |
| Emeryvine, CA 94002 | | Chent | Comac | I Chg | Leong | | | | | | |
| | | Client I | P.O: | | | Date A | ate Analyzed: 10/19/01 | | | | |
| | | 7 | olatile | Orga | nics By GC/MS | | | , | | | |
| EPA method 8260 | | | | | | | | | | | |
| Lab ID | | | | | 80779 | | | | | | |
| Client | | | | | SP-2 | | | | | | |
| Matrix | | | | | S | | | · | | | |
| Compound | Concer | entration* Reporting | | g Limit | Compound | | Concentration* | Reportin | | | |
| | | Concentration | | S | · · · · · · | | | W | S | | |
| Acetone (b) | N | D<35 | 5.0 | 25 | trans-1,3-Dichloropropene | ; | ND | 1.0 | 5.0 | | |
| Benzene | | ND | 1.0 | 5.0 | Ethylene dibromide | | ND | 1.0 | 5.0 | | |
| Bromobenzene | | ND | 1.0 | 5.0 | Ethylbenzene | | ND | 1.0 | 5.0 | | |
| Bromochloromethane | | ND | 1.0 | 5.0 | Hexachlorobutadiene | | ND | 5.0 | 25 | | |
| Bromodichloromethane | | ND | 1.0 | 5.0 | Iodomethane | | ND | 1.0 | 5.0 | | |
| Bromoform | | ND | 1.0 | 5.0 | Isopropylbenzene | | ND | 1.0 | 5.0 | | |
| Bromomethane | | ND | 1.0 | 5.0 | p-Isopropyl toluene | | ND | 1.0 | 5.0 | | |
| n-Butyl benzene | | ND | 1.0 | 5.0 | Methyl butyl ketone (d) | | ND | 1.0 | 5.0 | | |
| sec-Butyl benzene | 1 | ND | | 5.0 | Methylene Chloride ^(e) | | ND | 1.0 | 5.0 | | |
| tert-Butyl benzene | | ND | 1.0 | 5.0 | Methyl ethyl ketone (f) | | ND | 2.0 | 10 | | |
| Carbon Disulfide | | ND | 1.0 | 5.0 | Methyl isobutyl ketone (8) | (TDE) | ND | 1.0 | 5.0 | | |
| Carbon Tetrachloride | 1. | ND | 1.0 | 5.0 | | thyl tert-Butyl Ether (MTBE) | | 1.0 | 5.0 5.0 | | |
| Chlorobenzene | | ND | 1.0 | 5.0 | Naphthalene | | ND ND | 5.0 1.0 | 5.0 | | |
| Chloroethane | | ND ND | 1.0 | 5.0 | n-Propyl benzeпе Styrene (к) | | ND ND | 1.0 | 5.0 | | |
| 2-Chloroethyl Vinyl Ether ^(e) Chloroform | | ND | | 5.0 | 1,1,1,2-Tetrachloroethane | | ND ND | 1.0 | 5.0 | | |
| Chloromethane | | ND | 1.0 | 5.0 | 1,1,2,2-Tetrachloroethane | | ND | 1.0 | 5.0 | | |
| 2-Chlorotoluene | | ND | 1.0 | 5.0 | Tetrachloroethene | | ND | 1.0 | 5.0 | | |
| 4-Chlorotoluene | | ND | 1.0 | 5.0 | Toluene (1) | | ND | 1.0 | 5.0 | | |
| Dibromochloromethane | | ND | 1.0 | 5.0 | 1,2,3-Trichlorobenzene | | ND | 5.0 | 25 | | |
| 1,2-Dibromo-3-chloropropane | | ND | 2.0 | 10 | 1.2.4-Trichlorobenzene | | ND | 5.0 | 25 | | |
| Dibromomethane | | ND | 1.0 | 5.0 | 1,1,1-Trichloroethane | | ND | 1.0 | 5.0 | | |
| 1,2-Dichlorobenzene | | ND | 1.0 | 5.0 | 1,1,2-Trichloroethane | | ND | 1.0 | 5.0 | | |
| 1,3-Dichlorobenzene | 1 | ND | 1.0 | 5.0 | Trichloroethene | | ND | 1.0 | 5.0 | | |
| 1,4-Dichlorobenzene | | ND | 1.0 | 5.0 | Trichlorofluoromethane | | ND | 1.0 | 5.0 | | |
| Dichlorodifluoromethane | | ND | 1.0 | 5.0 | 1,2,3-Trichloropropane | | ND | 1.0 | 5.0 | | |
| 1,1-Dichloroethane | | ND | 1.0 | 5.0 | 1,2,4-Trimethylbenzene | | ND | 1.0 | 5.0 | | |
| 1,2-Dichloroethane | | ND | 1.0 | 5.0 | 1,3,5-Trimethylbenzene | | ND | 1.0 | 5.0 | | |
| 1,1-Dichloroethene | 1 | ND | 1.0 | 5.0 | i.0 Vinyl Acetate (m) | | ND | 5.0 | 25 | | |
| cis-1,2-Dichloroethene | | ND | 1.0 | 5.0 | Vinyl Chloride (n) | | ND | 1.0 | 5.0 | | |
| trans-1,2-Dichloroethene | | ND | 1.0 | 5.0 | Xylenes, total (6) | | ND | 1.0 | 5.0 | | |
| 1,2-Dichloropropane |] | ND | 1.0 | 5.0 | Comments: | | | | | | |
| 1,3-Dichloropropane |] | ND | 1.0 | 5.0 | - | ogate Re | coveries (%) | | | | |
| 2,2-Dichloropropane | | ND | 1.0 | 5.0 | Dibromofluoromethane | | | | 4 | | |
| 1,1-Dichloropropene | | ND | 1.0 | 5.0 | Toluene-d8 | | | |)6 | | |
| cis-1,3-Dichloropropene | | ND | 1.0 | 5.0 | 4-Bromofluorobenzene | | | 1 | 17 | | |

^{*}water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

DHS Certification No. 1644

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

⁽b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

| ICES | | Client I | Project | ID: #2 | 262; Alameda | Date S | Date Sampled: 10/15/01 | | | | |
|----------------------|----------------|-------------|---------|----------|-------------------------|-------------------------|------------------------|----------|---|--|--|
| P O Box 99288 | Subdivi | ision | | | Date l | Date Received: 10/15/01 | | | | | |
| Emeryville, CA 94662 | | Client (| Contac | t: Peng | Leong | Date 1 | Extracted: 10/15 | 5/01 | • | | |
| | Client I | P.O: | | | Date Analyzed: 10/19/01 | | | | | | |
| EPA method 8260 | | V | olatile | Orga | nies By GC/MS | | · | | | | |
| La | b ID | | | | 80780 |) | | | • | | |
| Cl | ent ID | | | | SP-3 | | | | | | |
| Ma | atrix | | | | S | | | | | | |
| Compound C | Concentration* | Reportin | g Limit | Compound | | Concentration* | Reportin | ng Limit | | | |
| Compound | | Ouceun anon | W | S | Compound | · | Concentiation | W | S | | |
| | | | | | | | | | | | |

| Matrix | | | S | | | | | | | | |
|------------------------------|----------------|----------|---------|--------------------------------|----------------|----------|---------|--|--|--|--|
| Compound | Concentration* | Reportin | g Limit | Compound | Concentration* | Reportin | g Limit | | | | |
| | Concentration | W | S | Compound | Concentration | W | S | | | | |
| Acetone (b) | ND<35 | 5.0 | 25 | trans-1,3-Dichloropropene | ND | 1.0 | 5.0 | | | | |
| Benzene | ND | 1.0 | 5.0 | Ethylene dibromide | ND | 1.0 | 5.0 | | | | |
| Bromobenzene | ND | 1.0 | 5.0 | Ethylbenzene | ND | 1.0 | 5.0 | | | | |
| Bromochloromethane | ND | 1.0 | 5.0 | Hexachlorobutadiene | ND | 5.0 | 25 | | | | |
| Bromodichloromethane | ND | 1.0 | 5.0 | Iodomethane | ND | 1.0 | 5.0 | | | | |
| Bromoform | ND | 1.0 | 5.0 | Isopropyibenzene | ND | 1.0 | 5.0 | | | | |
| Bromomethane | ND | 1.0 | 5.0 | p-Isopropyl toluene | ND | 1.0 | 5.0 | | | | |
| n-Butyl benzene | ND | 1.0 | 5.0 | Methyl butyl ketone (d) | ND | 1.0 | 5.0 | | | | |
| sec-Butyl benzene | ND | 1.0 | 5.0 | Methylene Chloride(e) | ND | 1.0 | 5.0 | | | | |
| tert-Butyl benzene | ND | 1.0 | 5.0 | Methyl ethyl ketone (1) | ND | 2.0 | 10 | | | | |
| Carbon Disulfide | ND | 1.0 | 5.0 | Methyl isobutyl ketone (g) | ND | 1.0 | 5.0 | | | | |
| Carbon Tetrachloride | ND | 1.0 | 5.0 | Methyl tert-Butyl Ether (MTBE) | | 1.0 | 5.0 | | | | |
| Chlorobenzene | ND | 1.0 | 5.0 | Naphthalene | ND | 5.0 | 5.0 | | | | |
| Chloroethane | ND | 1.0 | 5.0 | n-Propyl benzene | ND | 1.0 | 5.0 | | | | |
| 2-Chloroethyl Vinyl Ether(e) | ND | 1.0 | 5.0 | Styrene (k) | ND | 1.0 | 5.0 | | | | |
| Chloroform | ND | 1.0 | 5.0 | 1,1,1,2-Tetrachloroethane | ND | 1.0 | 5.0 | | | | |
| Chloromethane | ND | 1.0 | 5.0 | 1,1,2,2-Tetrachloroethane | ND . | 1.0 | 5.0 | | | | |
| 2-Chlorotoluene | ND | 1.0 | 5.0 | Tetrachloroethene | ND | 1.0 | 5.0 | | | | |
| 4-Chlorotoluene | ND | 1.0 | 5.0 | Toluene (1) | ND | 1.0 | 5.0 | | | | |
| Dibromochloromethane | ND | 1.0 | 5.0 | 1,2,3-Trichlorobenzene | ND | 5.0 | 25 | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | 10 | 1,2,4-Trichlorobenzene | ND | 5.0 | 25 | | | | |
| Dibromomethane | ND | 1.0 | 5.0 | 1,1,1-Trichloroethane | ND | 1.0 | 5.0 | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | 5.0 | 1,1,2-Trichloroethane | ND | 1.0 | 5.0 | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | 5.0 | Trichloroethene | ND | 1.0 | 5.0 | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | 5.0 | Trichlorofluoromethane | ND | 1.0 | 5.0 | | | | |
| Dichlorodifluoromethane | ND | 1.0 | 5.0 | 1,2,3-Trichloropropane | ND | 1.0 | 5.0 | | | | |
| 1,1-Dichloroethane | ND | 1.0 | 5.0 | 1,2,4-Trimethylbenzene | ND | 1.0 | 5.0 | | | | |
| 1,2-Dichloroethane | ND | 1.0 | 5.0 | 1,3,5-Trimethylbenzene | ND | 1.0 | 5.0 | | | | |
| 1,1-Dichloroethene | ND | 1.0 | 5.0 | Vinyl Acetate (nt) | ND | 5.0 | 25 | | | | |
| cis-1,2-Dichloroethene | ND | 1.0 | 5.0 | Vinyl Chloride (n) | ND | 1.0 | 5.0 | | | | |
| trans-1,2-Dichloroethene | ND | 1.0 | 5.0 | Xylenes, total (6) | ND | 1.0 | 5.0 | | | | |
| 1,2-Dichloropropane | ND | 1.0 | 5.0 | Comments: | | | | | | | |
| 1,3-Dichloropropane | ND | 1.0 | 5.0 | Surrogate Re | ecoveries (%) | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | 5.0 | Dibromofluoromethane | | | 4 | | | | |
| 1,1-Dichloropropene | ND | 1.0 | 5.0 | Toluene-d8 | | 10 | 06 | | | | |
| cis-1,3-Dichloropropene | ND | 1.0 | 5.0 | 4-Bromofluorobenzene | | 11 | 18 | | | | |

^{*}water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

DHS Certification No. 1644

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

⁽b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

| ICES | Client Project ID: #2262; Alameda | Date Sampled: 10/15/01 | | | | | | |
|---------------------------------------|-----------------------------------|--------------------------|--|--|--|--|--|--|
| P O Box 99288 Emeryville, CA 94662 | Subdivision | Date Received: 10/15/01 | | | | | | |
| | Client Contact: Peng Leong | Date Extracted: 10/15/01 | | | | | | |
| | Client P.O: | Date Analyzed: 10/19/01 | | | | | | |
| Volatile Organics By GC/MS | | | | | | | | |

| EPA method 8260 | - - |
|-----------------|------------|
| Lab ID | 80781 |
| Client ID | SP-4 |
| Matrix | S |

| Matrix | | S | | | | | | | | |
|------------------------------|----------------|----------|---------|-----------------------------------|----------------|----------|----------|--|--|--|
| Compound | Concentration* | Reportin | g Limit | Compound | Concentration* | Reportir | ng Limit | | | |
| | Concentration | W | S | Сотрошна | Concentration | W | S | | | |
| Acetone (6) | ND<35 | 5.0 | 25 | trans-1,3-Dichloropropene | ND | 1.0 | 5.0 | | | |
| Benzene | ND | 1.0 | 5.0 | Ethylene dibromide | ND | 1.0 | 5.0 | | | |
| Bromobenzene | ND | 1.0 | 5.0 | Ethylbenzene | ND | 1.0 | 5.0 | | | |
| Bromochloromethane | ND | 1.0 | 5.0 | Hexachlorobutadiene | ND | 5.0 | 25 | | | |
| Bromodichloromethane | ND | 1.0 | 5.0 | Iodomethane | NĎ | 1.0 | 5.0 | | | |
| Bromoform | ND | 1.0 | 5.0 | Isopropylbenzene | ND | 1.0 | 5.0 | | | |
| Bromomethane | ND | 1.0 | 5.0 | p-Isopropyl toluene | ND | 1.0 | 5.0 | | | |
| n-Butyl benzene | ND | 1.0 | 5.0 | Methyl butyl ketone (d) | ND | 1.0 | 5.0 | | | |
| sec-Butyl benzene | ND | 1.0 | 5.0 | Methylene Chloride ^(e) | ND | 1.0 | 5.0 | | | |
| tert-Butyl benzene | ND | 1.0 | 5.0 | Methyl ethyl ketone (f) | ND | 2.0 | 10 | | | |
| Carbon Disulfide | ND | 1.0 | 5.0 | Methyl isobutyl ketone (g) | ND | 1.0 | 5.0 | | | |
| Carbon Tetrachloride | ND | 1.0 | 5.0 | Methyl tert-Butyl Ether (MTBE) | | 1.0 | 5.0 | | | |
| Chlorobenzene | ND | 1.0 | 5.0 | Naphthalene | ND | 5.0 | 5.0 | | | |
| Chloroethane | ND | 1.0 | 5.0 | n-Propyl benzene | ND | 1.0 | 5.0 | | | |
| 2-Chloroethyl Vinyl Ether(c) | ND | 1.0 | 5.0 | Styrene (k) | ND | 1.0 | 5.0 | | | |
| Chloroform | ND | 1.0 | 5.0 | 1,1,1,2-Tetrachloroethane | ND | 1.0 | 5.0 | | | |
| Chloromethane | ND | 1.0 | 5.0 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 5.0 | | | |
| 2-Chlorotoluene | ND | 1.0 | 5.0 | Tetrachloroethene | ND | 1.0 | 5.0 | | | |
| 4-Chlorotoluene | ND | 1.0 | 5.0 | Toluene (1) | ND | 1.0 | 5.0 | | | |
| Dibromochloromethane | ND | 1.0 | 5.0 | 1,2,3-Trichlorobenzene | ND | 5.0 | 25 | | | |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | 10 | 1,2,4-Trichlorobenzene | ND | 5.0 | 25 | | | |
| Dibromomethane | ND | 1.0 | 5.0 | 1,1,1-Trichloroethane | ND | 1.0 | 5.0 | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | 5.0 | 1,1,2-Trichloroethane | ND | 1.0 | 5.0 | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | 5.0 | Trichloroethene | ND | 1.0 | 5.0 | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | 5.0 | Trichlorofluoromethane | ND | 1.0 | 5.0 | | | |
| Dichlorodifluoromethane | ND | 1.0 | 5.0 | 1,2,3-Trichloropropane | ND | 1.0 | 5.0 | | | |
| 1,1-Dichloroethane | ND | 1.0 | 5.0 | 1,2,4-Trimethylbenzene | ND | 1.0 | 5.0 | | | |
| 1,2-Dichloroethane | ND | 1.0 | 5.0 | 1,3,5-Trimethylbenzene | ND | 1.0 | 5.0 | | | |
| 1,1-Dichloroethene | ND | 1.0 | 5.0 | Vinyl Acetate (m) | ND | 5.0 | 25 | | | |
| cis-1,2-Dichloroethene | ND | 1.0 | 5.0 | Vinyl Chloride (n) | ND | 1.0 | 5.0 | | | |
| trans-1,2-Dichloroethene | ND | 1.0 | 5.0 | Xylenes, total (0) | ND | 1.0 | 5.0 | | | |
| 1,2-Dichloropropane | ND | 1.0 | 5.0 | Comments: | | | | | | |
| 1,3-Dichloropropane | ND | 1.0 | 5.0 | Surrogate Recoveries (%) | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | 5.0 | | | | 3 | | | |
| 1,1-Dichloropropene | ND | 1.0 | 5.0 | Toluene-d8 | | 10 |)6 | | | |
| cis-1,3-Dichloropropene | ND | 1.0 | 5.0 | 4-Bromofluorobenzene | | 11 | 6 | | | |

water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

DHS Certification No. 1644

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

⁽b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.



| ICES P O Box 9 | 9288 | | Cli Sul | ent Project ID: #2262; Alameda odivision | Date Sampled: 10/15/01 Date Received: 10/15/01 | | | | | |
|----------------|---|------|------------|---|---|--|--|--|--|--|
| Emeryville | e, CA 94662 | | Cli | ent Contact: Peng Leong | Date Extracted: 10/15/01 | | | | | |
| | | | Cli | ent P.O: | Date Analyzed: 10/15/01 | | | | | |
| , | Analytical methods | | | ħ | н | | | | | |
| , | Marytical methods | • | | EPA 150.1 | , 9040, 9045 | | | | | |
| Lab ID | Client ID | Matr | ix | pH @ _°C | | | | | | |
| 80778 | SP-1 | s | | 6.96 @ |) 26.2°C | | | | | |
| 80779 | SP-2 | s | | 10.69 @ | ⊋ 26.3°C | | | | | |
| 80780 | SP-3 | s | | 6.08 @ |) 26.3°C | | | | | |
| 80781 | SP-4 | s | | 7.51 @ |), 26.3°C | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| Accuracy | Limit or Method unless otherwise neans not detected | w | | ±(| 0.05 | | | | | |
| above the re | porting limit; N/A not applicable | S | | ± | 0.1 | | | | | |
| Repo | rting Units | | | - log(a _H | †)@_°C | | | | | |



QC REPORT

VOCs (EPA 8240/8260)

Date: 10/10/01-10/20/01

Matrix: Soil

| Date: 10/19/01-10/20/01 | Extraction | EPA 5 | 5030 | | Matrix: | Soil | |
|-------------------------|------------|---------|----------|------------------|-----------|---------------|------|
| | | Concent | tration: | ug/kg | %Rec | overy | |
| Compound | Sample | MS | MSD | Amount Spiked | MS | MSD | RPD |
| SampleID: 101901 | | | | | Instrumer | <u>nt:</u> G(| C-4 |
| Surrogate | ND | 102.0 | 112.0 | 100.00 | 102 | 112 | 9.3 |
| tert-Amyl Methyl Ether | ND | 42.0 | 43.5 | 50.00 | 84 | 87 | 3.5 |
| Methyl tert-Butyl Ether | ND | 37.5 | 40.0 | 50.00 | 75 | 80 | 6.5 |
| Ethyl tert-Butyl Ether | ND | 44.5 | 46.0 | 50.00 | 89 | 92 | 3.3 |
| Di-isopropyl Ether | ND | 58.5 | 61.0 | 50.00 | 117 | 122 | 4.2 |
| Toluene | ND | 54.5 | 56.0 | 50.00 | 109 | 112 | 2.7 |
| Benzene | ND | 60.5 | 62.0 | 50.00 | 121 | 124 | 2.4 |
| Chlorobenzene | ND | 48.5 | 49.5 | 50.00 | 97 | 99 | 2.0 |
| Trichloroethane | ND | 42.5 | 43.0 | 50.00 | 85 | 86 | 1.2 |
| 1,1-Dichloroethene | ND | 50.0 | 41.5 | 50.00 | 100 | 83 | 18.6 |

$$\% \text{ Re covery} = \frac{\left(MS - Sample\right)}{AmountSpiked} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2.100$$



CHAIN-OF-CUSTODY



| | | | Z (Ce) | | | | | | | 8.8 | | | |
|--|--------------------|-----------------------------|----------------|-----------------|------------------|---------------------------------------|----|----------|--------------------|-------------|-------------------------|-------------------------------|--|
| Project Name Alameda Subdivis Alameda, Califori | | | Projec | ANALYSIS | | | | | | Laboratory | Laboratory Name/Address | | |
| | | | | | | | | | | | McC An | ampbell aiytical | |
| | | | ICES | | | | | | | | , 41 | / way near | |
| Lab ICES S Number Identif | ample Ication C | Date Collected | Sample Type | No. of Cont. | | VOCs | Ha | | | | Corne | ents / Hazards | |
| | | 0.15.01 | 0 - 11 | , | | | ,, | | - : | 00770 | . | | |
| | | 0-15-01 | Soll |] | | X | X | | | 80778 | <u></u> | Analyze VOCs on | |
| | | 0-15-01 | Soll | 1 | | X | X | | | 80779 | normal TAT. | | |
| | | 0-15-01 | Soll | J | | X | X | | <u>:</u> | _=- | | | |
| Si | P-4 1 | 0-15-01 | Soll | 1 | | Х | X | | | 80780 | • • | Analyze pH on 48-hour TAT. | |
| | | | | | | | | | - | 80781 | 48-hour | | |
| | | | | | | · · · · · · · · · · · · · · · · · · · | | | · + | | | | |
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| | | | | | | | | | | | | | |
| | | | | | | | | | | | | · | |
| Relinquished by: (Signature) DATE TIME 10:15:01 11:123 | | | | | Receiv | red by: | | | <u> </u> | | DATE | TIME | |
| (Signature) | | | · / | ,40 | (Signa | ture) | 15 | <u> </u> | M | US_ | 10/15 | (,4 | |
| Relinquished by: Signature) | 4× . | DATE 0/15 | | IME | Receiv (Signa | red by: iture) | U | D | W) | 21 | DATE | TIME | |
| Relinquished by: (Signature) | ר | Received by: (Signature) | | | | VOASI ORGINETU CLOTUCO | | | | | | | |



APPENDIX C

SHIPPING MANIFESTS

P. D. 1

TICKET 203586

CUSTOMER: ELC / ELC COMPINY

TRUCK: 181

ACCT#: 5020003 PROFILE #1 82987 1885/55/81 :319G

TIME: 09:29 - 09:89

GENERATOR: 62987 / KB HOME BOUTH BA

ORIGIN: 0004 / FREMONT

LICENSE COMMENT:

B1500 LBS Manual GROWS 1

TARE : 31100 LBS Weight

ME T t 50400 185

RATE

No:

WABTE

GUNNTITY

UNIL

AMOUNT

Could be the second of the second

BOIL / BOIL - ADC 25. 20

I certify that I have not disposed pny/liquid or hazardous waste

Ne sungarrent

CUSTOMER

REPUBLIC SERVICES VASCO ROAD, LLC 4001 N. Vasco Road. Livermore, California 94550 • (925) 447-0491

TICKET 203735

CUSTOMER: ELC / EALC COMPANY

TRUCK: Y4

D. O. :

ACCTO: 5020003

PROFILE #: 02987

DOTE: 10/22/2001

11M(1)2105 - 12165

GENERATOR: 02987 / KB HOME SOUTH BA

DRIBIN: 0004 / FREMUNT

LICENSE:

COMMENT:

WASTE.

B**R**U\$5 1 75100 LBS

TARE: 33000 LPS

HET: 42100 LBS

DUANTITY UNIT RATE

AMDLINI

SOIL / SOIL - ADC

21.65

I certify that I have not disposed

of any liquid or hezardous waste

P. D. :

TICULT. 20

TICKET: 203723 CLISTOMER: ELC / EALC COMPANY

TRUCK! 101

ACCT01 5020803 PROFILE 0: 02987 PATE: 10/22/2991

TIME: 11:54 - 11:54

GENERATOR: 02987 / KB HOME SOUTH BA

DRIGIN: 9004 / FREMONT

LICENSE:

GROSS: 83148 LBS

TARE: 3(100 LBS

WARTE

DUANTETY UNIT

RATE

AMOUNT

SOIL / SOIL - ADC

26.02

I certify that I have not disposed of any liquid or hazardous waste

Heighbaster i

Cuttores of

CUSTOMER