



Environmental Investigation Report
Malabar Avenue Property (Tract 7305)
Castro Valley, California

Alameda County

JUN 10 2003

Environmental Health

Prepared For:

Delco Builders & Developers
2552 Stanwell Drive, Suite 203
Concord, California 94520

Prepared By:

Northgate Environmental Management, Incorporated
3629 Grand Avenue
Oakland, California 94610

June 4, 2003



**northgate
environmental
management, inc.**

June 4, 2003

Mr. Phil Rowe
Delco Builders and Developers
2552 Stanwell Drive, Suite 203
Concord, CA 94520

Re: Environmental Investigation Report
Malabar Avenue Property (Tract 7305), Castro Valley, California
Project No: 1109.00

Dear Mr. Rowe:

Northgate Environmental Management, Incorporated is pleased to present our Environmental Investigation Report for the above-referenced site. A copy of the report has been sent to Ms. Eva Chu of Alameda County Environmental Health on your behalf.

We appreciate the opportunity to provide service to you on this project and trust this report meets your needs at this time. Please don't hesitate to call if you have any questions or require additional information.

Sincerely,

Northgate Environmental Management, Inc.

Dennis Laduzinsky, C.E.G.
Associate

Copies: Addressee (2)
Eva Chu (ACEH - 1)

Environmental Investigation Report
Malabar Avenue Property
(Tract 7305)
Castro Valley, California

June 4 2003

Prepared For:

Delco Builders & Developers
2552 Stanwell Drive, Suite 203
Concord, California 95032

Prepared By:

Northgate Environmental Management, Inc.
3629 Grand Avenue
Oakland, California 94610

A handwritten signature in black ink, appearing to read 'Dennis Laduzinsky', written over a horizontal line.

Dennis Laduzinsky, C.E.G./R.E.A.
Associate



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1.0 INTRODUCTION AND SCOPE OF SERVICES

This report presents the results of an environmental investigation performed at 4605, 4611, and 4643 Malabar Avenue in Castro Valley, California. The site consists of an approximate 3.5-acre parcel also referred to as Tract 7305. A Site Location Map is shown on Figure 1 and a Site Plan is shown on Figure 2.

The purpose of the investigation has been to provide additional evaluation of potential environmental concerns related to a former underground fuel storage tank (UST) that was removed from the site in the 1960s, and possible historic pesticide use at the site, as outlined in an e-mail memorandum from Ms. Eva Chu of Alameda County Environmental Health (ACEH) to Mr. Ariu Levi and Ms. Donna Drogos of ACEH dated April 15, 2003. The investigation included the analysis of 16 shallow soil samples for the possible presence of pesticides, and analysis of four soil samples collected from two borings drilled in the vicinity of the former UST for the possible presence of petroleum hydrocarbons. The work was performed in general accordance with the *Work Plan for Environmental Investigation, Malabar Avenue Property (Tract 7305), Castro Valley, California*, dated May 8, 2003, as modified by the *Work Plan Approval* letter from Ms. Chu, dated May 13, 2003.

The scope of work for the investigation included the following services:

- Collecting soil samples from depths of one and three feet below the ground surface (bgs) from eight locations on the northern portion of the site, and analyzing the one-foot samples for organochlorine and organophosphorous pesticides;
- Collecting soil samples from a depth of about one foot bgs at eight locations on the southern and eastern portions of the site, and analyzing the samples for organophosphorous pesticides;
- Drilling two soil borings to depths of nine and 14 feet bgs in the vicinity of a former UST, and analyzing four soil samples for petroleum hydrocarbons as gasoline and diesel;
- Conducting a general reconnaissance of an area of the site reported to have contained a hand-dug well, in an attempt to identify the former well location; and
- Preparing this report.

2.0 BACKGROUND

2.1 Site Location

The site consists of an approximate 3.5-acre parcel located at 4605, 4611, and 4643 Malabar



Avenue in Castro Valley, California. The site is presently covered with a moderate growth of grass and weeds, and is developed with four vacant structures, generally located near the center of the property. The site is located in a residential neighborhood, and is bordered on the east, west, and south by single-family residences. The site is bordered on the north by Malabar Avenue, and partially bordered on the south by Seven Hills Road.

2.2 Previous Investigations

A previous environmental assessment performed at the site (*Phase I Environmental Site Assessment on Proposed Residential Development, 4605, 4611, and 4643 Malabar Avenue, Castro Valley, California* dated September 27, 2000, by Terrasearch, Inc.) indicates that the site was developed as a chicken farm from the early 1900s through the 1960s. Aerial photographs viewed during the investigation reportedly indicated that the southwestern and southeastern portions of the site were used for row crops beginning sometime between 1975 and 1981. The aerial photograph review indicated that agricultural land use ceased sometime prior to 1988. A UST was reportedly removed from the site sometime in the 1960s, and an old hand-dug well was reportedly filled-in in the 1960s. The Phase I investigation concluded that specific soil and groundwater testing should be performed in the area of the former UST. The report also recommended that soil testing be performed in the former agricultural land use area to evaluate potential soil quality impacts due to pesticides.

Terrasearch subsequently performed an additional investigation at the site in accordance with recommendations contained in the Phase I assessment. The investigation results are presented in a report titled *Surface and Subsurface Environmental Site Assessment on 4605, 4611 and 4643 Malabar Avenue, Castro Valley California* dated November 3, 2000. Terrasearch's investigation included collecting four soil samples within one foot of the ground surface from the southwest and southeast portions of the site (the former agricultural area observed on the historic aerial photographs), and analyzing the samples for organochlorine pesticides, arsenic, lead, and mercury. Terrasearch also drilled one soil boring in the vicinity of the former UST in an attempt to collect soil and groundwater samples for chemical analysis. However, the report indicates that the boring could not be drilled deeper than five feet due to hard rock encountered in the boring. One soil sample collected from a depth of four feet was analyzed for petroleum hydrocarbons as gasoline and diesel, purgeable aromatic compounds, MTBE, and lead. The previous sampling locations are shown on figure 2.

The shallow soil samples did not contain organochlorine pesticide compounds above the laboratory method reporting limits. Arsenic was measured in two of the samples at concentrations of 4.3 and 5.3 parts per million (ppm). Lead was present in all four samples, with concentrations ranging from 4.4 to 17 ppm. Mercury was detected in one sample, at a concentration of 0.096 ppm. Terrasearch concluded that the measured concentrations of metals were within the range of naturally occurring background levels. As organochlorine pesticides were not detected in the samples, the report concluded that the previous agricultural land use had not impacted shallow soil quality at the site.



The soil sample collected from a depth of four feet near the former UST did not contain hydrocarbon compounds above the laboratory method reporting limits. Based on these test results, Terrasearch concluded that no additional environmental assessment was required at the site.

ACEH subsequently requested that additional testing be performed to further evaluate the potential for impacts to soil and groundwater quality at the site related to the former UST and possible former agricultural land uses. ACEH also requested additional evaluation of the closure status of the former hand-dug well. The present investigation has been performed to address the ACEH requests.

3.0 INVESTIGATION METHODS AND RESULTS

The investigation methods and results for each potential area of concern are described in the following sections.

3.1 Former Agricultural Land Uses

Soil samples were collected at depths of one and three feet bgs to evaluate the site for the presence of residual pesticide compounds related to possible historic agricultural land uses. Samples were collected from 16 locations at the site as shown on Figure 2. Samples were collected using a truck-mounted drill rig equipped with hollow-stem augers. The samples were collected by driving a standard penetration split-spoon sampler to the desired sampling depth. Upon removal from the borehole, the sampler was opened, and soil from the selected sample interval was manually transferred from the sampler to a laboratory-supplied sample jar. The sample was sealed with a Teflon-lined lid, labeled, and placed on ice in an ice chest. A chain-of-custody form was initiated in the field and accompanied the samples to the analytical laboratory.

Soil samples were selectively analyzed at STL of Pleasanton, California, for organochlorine and organophosphorous pesticides using EPA Methods 8081 and 8141, respectively. In accordance with Work Plan, as modified by ACEH, the samples collected from a depth of one-foot bgs on the northern portion of the parcel (samples labeled SS-A1 through A4, and SS-B1 through B4 on Figure 2) were analyzed for organochlorine and organophosphorous pesticides. Samples collected from the southern and eastern portions of the site (samples labeled SS-C1 through C4, and SS-D1 through D4 on Figure 2) were analyzed only for organophosphorous pesticides, as soil in these areas had been previously tested for organochlorine pesticides by Terrasearch.

The chemical test results are presented on Table 1, and the laboratory analytical reports are attached in Appendix A. As shown on Table 1, samples from the northern portion of the site did not contain organochlorine pesticides or organophosphorous pesticides at concentrations above the laboratory method reporting limits (MRLs). The samples collected from the southern and eastern portions of the site did not contain organophosphorous pesticides above the laboratory MRLs.



3.2 Former UST

Soil borings were drilled at two locations in the general vicinity of the former UST, as identified in the field by Ms. Marie Alcorn, the owner of the site at the time the UST was removed. In accordance with procedures outlined in the Work Plan, we attempted to advance a boring to a depth of about 25 feet bgs at a location approximately 25 feet southwest of the former UST. However, due to the presence of hard siltstone and sandstone rock, the initial boring could not be advanced beyond a depth of about 14 feet bgs. During drilling, soil samples were collected at depths of four and nine feet bgs by driving a modified California Sampler equipped with thin brass liners, using a 140-pound hammer falling 30 inches. As shown on the boring logs attached in Appendix B, the blow counts required to drive the sampler were 50 for 3-inches at four feet, and 50 for 2-inches at nine feet. At a depth of 14 feet, the blow counts were 50 for 1-inch, and the boring was terminated due to hard drilling.

Because the boring could not be advanced beyond a depth of 14 feet, a second boring was advanced at the area identified by Ms. Alcorn as the location of the former UST. At this location, a shallow depression was present that could represent settlement that might occur in a loosely filled excavation. As shown on the boring log of boring NB-2, possible old fill material was encountered (including fragments of red clay pipe) to a depth of four feet, where siltstone bedrock was again encountered. Soil samples were collected at depths of four and nine feet, with blow counts of 50 for 3-inches and 50 for 4-inches, respectively, and the boring could not be advanced further due to the presence of bedrock. Groundwater was not encountered in the borings.

The bedrock samples were collected at depths of four and nine feet bgs in each boring by filling any open heads pave in the sample tube with Teflon film, and sealing the sample tube with Teflon-lined lids. The samples were labeled, stoned on ice in an ice chest, and transported to the laboratory under chain of custody control. Each sample was analyzed for petroleum hydrocarbons as gasoline and diesel using EPA Method 8015M, and for purgeable aromatic compounds (benzene, toluene, ethylbenzene, and xylenes, or BTEX) and methyl tert-Butyl Ether (MtBE) using EPA Method 8021. Laboratory analytical results are presented on Table 2 and the laboratory reports are attached in Appendix A. As shown on the table, none of the samples contained hydrocarbon compounds, with the exception of the nine-foot bgs sample from boring NB-1, which contained 2.6 ppm of a diesel-range hydrocarbon. However, it should be noted that the laboratory report indicates that the hydrocarbon does not match the laboratory's diesel standard. In our experience, it is not uncommon for low levels of diesel-range hydrocarbons to be present in soil samples related to naturally occurring organic materials or other sources. As we did not observe hydrocarbon odors or other indications of the presence of contamination on any of the samples or soil cuttings generated during the investigation, it is our opinion that the low level of diesel range hydrocarbons reported in the sample do not represent a significant environmental concern.



3.3 Hand Dug Well

Information in the previous reports indicates that a hand-dug well was formerly located on the site. Our interview with Ms. Alcorn confirms that the old well was backfilled in the early 1960s. Ms. Alcorn generally recalls that the well was a brick-lined well, several feet in diameter, and was approximately 60 feet deep. Ms. Alcorn did not recall whether the well was filled with rock or dirt.

During our field investigation, we met with Mr. Jesse Glenn, a neighbor who said he grew corn and other crops on the site for approximately seven years in the 1980s. Mr. Glenn showed us an area on the site where he recalled that the old well was located. Northgate performed a general inspection of this area by probing the ground with a steel rod. This inspection revealed the presence of an approximate two-foot diameter circle of bricks located near the ground surface, at the approximate location shown on Figure 2. The interior of the circle was solid, and could not be probed with the steel rod, whereas most areas nearby could be penetrated to a depth of a foot or more with the steel probe. In our opinion, this ring of brick could potentially mark the location of the former hand dug well. We recommend that a geotechnical engineer examine this area during any future site grading activities. However, in our opinion, these type of old hand-dug wells are not generally amenable to pressure grouting as suggested in the ACEH memorandum.

4.0 CONCLUSIONS AND RECOMMENDATIONS

This investigation was conducted to evaluate the site for the possible presence of residual pesticides in shallow soil related to previous agricultural land uses, and for the possible presence of petroleum hydrocarbons related to a UST that was removed from the site in the 1960s. The investigation consisted of analyzing 16 soil samples collected within one foot of the ground surface for organophosphorous and/or organochlorine pesticides, and analyzing four soil samples collected from two borings drilled in the vicinity of the former UST for petroleum hydrocarbons as gasoline and diesel. In addition, the investigation included the inspection of an area of the site reported to have contained an old, filled-in hand dug well.

As described in the report, none of the shallow soil samples were found to contain organochlorine or organophosphorous pesticides above the laboratory method reporting limits (MRLs). In our opinion, these results, along with the test results from previous investigations performed at the site, indicate that shallow soil at the site does not appear to have been impacted by possible historic agricultural land use.

Borings drilled in the vicinity of the former UST encountered hard sandstone and siltstone rock at a depth of about four feet below the ground surface (bgs), and could not be advanced beyond a depth of 14 feet bgs using a drill rig equipped with hollow-stem augers. Soil samples collected at depths of four and nine feet bgs from a boring drilled at the reported former UST location did not contain petroleum hydrocarbons as gasoline or diesel above the laboratory MRL. Samples collected at depths of four and nine feet bgs from a boring located about 25 feet southwest (downgradient) of the former UST did not contain hydrocarbons, except for 2.6-ppm total



petroleum hydrocarbons as diesel reported in the sample from nine feet bgs. Benzene, toluene, ethylbenzene, xylenes, or MtBE were not reported present in any of the samples above the laboratory MRLs. It should be noted that the laboratory report indicates that the diesel hydrocarbons reported in the sample did not match the laboratory's diesel standard. In addition, we did not observe indications of the possible presence of petroleum hydrocarbon contamination during the drilling and sampling program. In our experience, low levels of diesel-range hydrocarbons reported in soil samples can sometimes be related to the presence of naturally occurring organic material in soil or rock, or as an artifact of the drilling and sampling process. In our opinion, the low level of diesel range hydrocarbon reported in the one soil sample does not appear to represent a significant environmental concern.

Our site reconnaissance indicated the presence of an approximate 2-foot diameter circle of brick located at the ground surface on the southern portion of the site. This feature could potentially represent the former hand dug well that was reportedly filled in the 1960s. The circle is currently filled to the ground surface, and could not be penetrated with a hand driven steel probe. We recommend that this feature be evaluated by a geotechnical engineer during any site grading activities to assess potential geotechnical impacts to site development.

5.0 LIMITATIONS

The purpose of an environmental assessment is to reasonably evaluate the potential for or actual impact of past practices on a given site area. In performing an environmental assessment, it is understood that a balance must be struck between a reasonable inquiry into the environmental issues and an exhaustive analysis of each conceivable issue of potential concern. The following paragraphs discuss the assumptions and parameters under which such an assessment (which may include professional opinions) is conducted.

No investigation is thorough enough to absolutely rule out the presence of hazardous materials at a given site. If hazardous conditions have not been identified during the assessment, such a finding should not therefore be construed as a guarantee of the absence of such materials on the site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed.

Environmental conditions may exist at the site that cannot be identified by visual observation. Where subsurface work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations.

Except where there is express concern of our client, or where specific environmental contaminants have been previously reported by others, naturally occurring toxic substances, potential environmental contaminants inside buildings, or contaminant concentrations that are not of current environmental concern may not be reflected in this document.

Where the scope of services is limited to interview and/or review of readily available reports and literature, any conclusions, and/or recommendations are necessarily based largely on information



supplied by others, the accuracy or sufficiency of which may not be independently reviewed by us.

Any opinions and/or recommendations presented apply to site conditions existing at the time of performance of services. We are unable to report on, or accurately predict, generally unforeseeable events that may impact the site following performance of services, whether occurring naturally or caused by external forces. Therefore, we cannot assume responsibility of such events or their impact. We also cannot assume responsibility for changes in environmental standards, practices, or regulations.



Table 1
Soil Sample Analytical Results - Pesticides
 Malabar Avenue Property
 Castro Valley, California

| Sample Location | Sample Depth (ft) | Organochlorine Pesticides (EPA 8081) | Organophosphorous Pesticides (EPA 8141) |
|-----------------|-------------------|--------------------------------------|---|
| SS-A1 | 1 | ND | <77 <i>mcg/kg</i> |
| SS-A2 | 1 | ND | <81 |
| SS-A3 | 1 | ND | <76 |
| SS-A4 | 1 | ND | <77 |
| SS-B1 | 1 | ND | <74 |
| SS-B2 | 1 | ND | <79 |
| SS-B3 | 1 | ND | <73 |
| SS-B4 | 1 | ND | <78 |
| SS-C1 | 1 | -- | <75 |
| SS-C2 | 1 | -- | <76 |
| SS-C3 | 1 | -- | <77 |
| SS-C4 | 1 | -- | <76 |
| SS-D1 | 1 | -- | <77 |
| SS-D2 | 1 | -- | <76 |
| SS-D3 | 1 | -- | <78 |
| SS-D4 | 1 | -- | <78 |

NOTES

ND: Not detected above the laboratory method reporting limit; limits vary with compound
 <: Not detected at or above the indicated laboratory method reporting limit
 --: Not Analyzed.

TABLE 2
Soil Sample Analytical Results - Petroleum Hydrocarbons
Malabar Avenue Property
Castro Valley, California

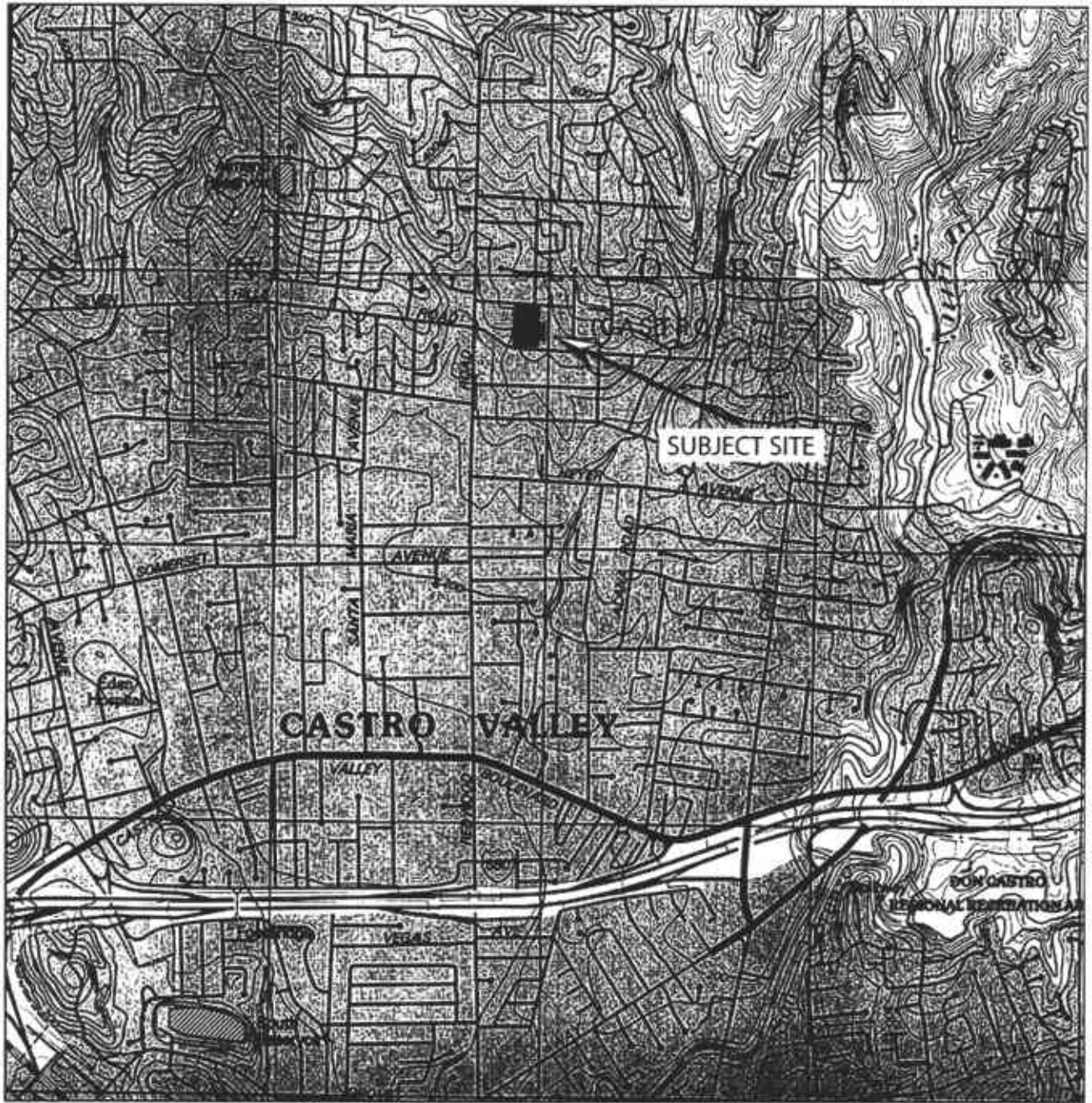
| Analyte | Sample Location and Depth | | | |
|--------------------------------|---------------------------|--------|----------|--------|
| | NB1-4 | NB1-9 | NB2-4.25 | NB2-9 |
| TPH as Gasoline - EPA 8015M | <1.0 | <1.0 | <1.0 | <1.0 |
| TPH as Diesel - EPA 8015M | <1.0 | 2.6* | <1.0 | <1.0 |
| Purgeable Aromatics - EPA 8021 | | | | |
| Benzene | <0.005 | <0.005 | <0.005 | <0.005 |
| Toluene | <0.005 | <0.005 | <0.005 | <0.005 |
| Ethyl benzene | <0.005 | <0.005 | <0.005 | <0.005 |
| Xylenes | <0.005 | <0.005 | <0.005 | <0.005 |
| MTBE - EPA 8021 | <0.005 | <0.005 | <0.005 | <0.005 |

NOTES

Results reported in mg/kg (parts per million)

<: Not detected at or above the indicated laboratory method reporting limit

*: Hydrocarbon does not match the laboratory standard



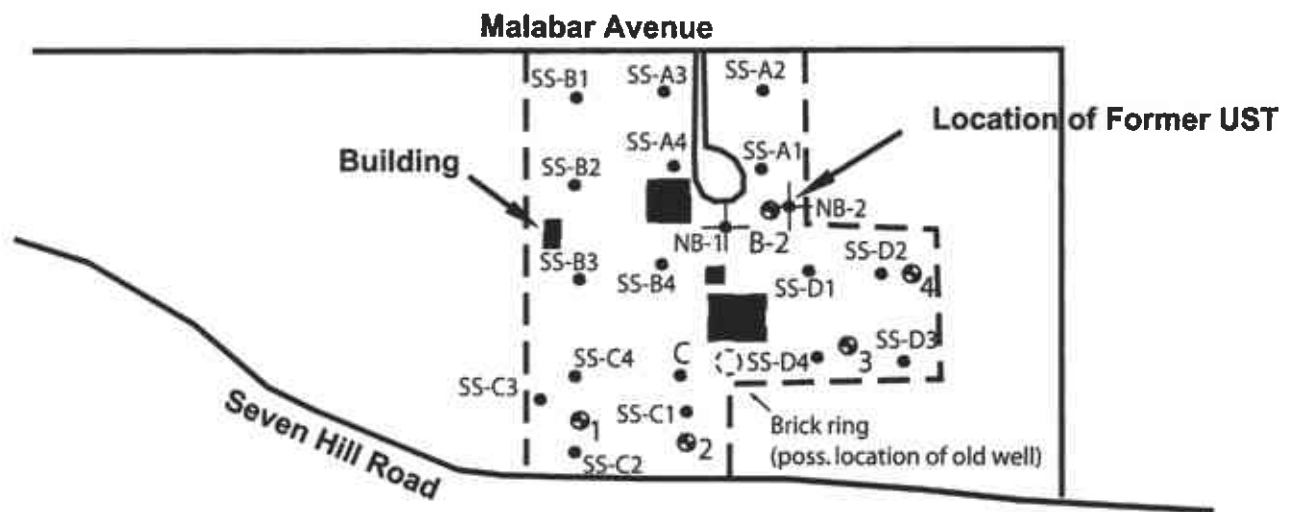
TN*/MN
15°

0 1000 FEET 0 500 1000 METERS

FIGURE 1
Site Location Map

 **northgate**
environmental
management, inc

Malabar Avenue Property
Hayward, California
June 2003
Proj. No. 1109.00



- SS-A1 • Pesticide Sample Location
- ⊕ Boring at Former UST
- ⊙ Previous Sample Location (Terrasearch)

-no scale -

Source: Terrasarch, 2000

FIGURE 2
Site Plan

Northgate Environmental, Oakland

May 28, 2003

3629 Grand Avenue
Oakland, CA 94610

Attn.: Dennis Laduzinsky

Project#: 1109.00

Project: Malabar Ave.

Site: Castro Valley

Dear Mr. Laduzinsky

Attached is our report for your samples received on 05/19/2003 17:19

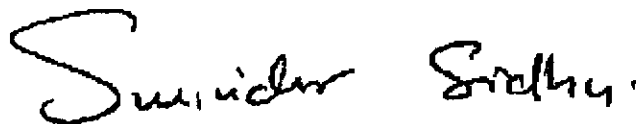
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 07/03/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: ssidhu@stl-inc.com

Sincerely,



Surinder Sidhu
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Samples Reported

| Sample Name | Date Sampled | Matrix | Lab # |
|-------------|--------------|--------|-------|
| SS-A1-1 | 05/16/2003 | Soil | 1 |
| SS-A2-1 | 05/16/2003 | Soil | 3 |
| SS-A3-1 | 05/16/2003 | Soil | 5 |
| SS-A4-1 | 05/16/2003 | Soil | 7 |
| SS-B1-1 | 05/16/2003 | Soil | 9 |
| SS-B2-1 | 05/16/2003 | Soil | 11 |
| SS-B3-1 | 05/16/2003 | Soil | 13 |
| SS-B4-1 | 05/16/2003 | Soil | 15 |

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/02/2003 14:51

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue
Oakland, CA 94610
Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00
Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 3550/8081 Test(s): 8081
Sample ID: SS-A1-1 Lab ID: 2003-05-0529 - 1
Sampled: 05/16/2003 Extracted: 5/20/2003 06:25
Matrix: Soil QC Batch#: 2003/05/20-01.13

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|-------|----------|------------------|------|
| Aldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Dieldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Endrin aldehyde | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Endrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Endrin ketone | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Heptachlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Heptachlor epoxide | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| 4,4'-DDT | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| 4,4'-DDE | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| 4,4'-DDD | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Endosulfan I | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Endosulfan II | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| alpha-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| beta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| gamma-BHC (Lindane) | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| delta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Endosulfan sulfate | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| 4,4'-Methoxychlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Toxaphene | ND | 100 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Chlordane (Technical) | ND | 50 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| alpha-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| gamma-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Surrogates(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 68.4 | 50-125 | % | 1.00 | 05/21/2003 09:19 | |
| Decachlorobiphenyl (Pest/8081) | 73.1 | 46-142 | % | 1.00 | 05/21/2003 09:19 | |

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/02/2003 14:51

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland
Attn.: Dennis Laduzinsky

3629 Grand Avenue
Oakland, CA 94610
Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00
Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 3550/8081 Test(s): 8081
Sample ID: SS-A2-1 Lab ID: 2003-05-0529 - 3
Sampled: 05/16/2003 Extracted: 5/30/2003 07:25
Matrix: Soil QC Batch#: 2003/05/30-01.13

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|-------|----------|------------------|------|
| Aldrin | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Dieldrin | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Endrin aldehyde | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Endrin | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Endrin ketone | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Heptachlor | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Heptachlor epoxide | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| 4,4'-DDT | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| 4,4'-DDE | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| 4,4'-DDD | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Endosulfan I | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Endosulfan II | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| alpha-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| beta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| gamma-BHC (Lindane) | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| delta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Endosulfan sulfate | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| 4,4'-Methoxychlor | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Toxaphene | ND | 100 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Chlordane (Technical) | ND | 50 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| alpha-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| gamma-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Surrogates(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 83.2 | 50-125 | % | 1.00 | 05/30/2003 12:40 | |
| Decachlorobiphenyl (Pest/8081) | 78.2 | 46-142 | % | 1.00 | 05/30/2003 12:40 | |

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/02/2003 14:51

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 3550/8081 Test(s): 8081
 Sample ID: SS-A3-1 Lab ID: 2003-05-0529 - 5
 Sampled: 05/16/2003 Extracted: 5/20/2003 06:25
 Matrix: Soil QC Batch#: 2003/05/20-01.13
 Analysis Flag: Irr (See Legend and Note Section)

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|-------|----------|------------------|------|
| Aldrin | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Dieldrin | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Endrin aldehyde | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Endrin | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Endrin ketone | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Heptachlor | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Heptachlor epoxide | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| 4,4'-DDT | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| 4,4'-DDE | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| 4,4'-DDD | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Endosulfan I | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Endosulfan II | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| alpha-BHC | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| beta-BHC | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| gamma-BHC (Lindane) | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| delta-BHC | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Endosulfan sulfate | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| 4,4'-Methoxychlor | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Toxaphene | ND | 200 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Chlordane (Technical) | ND | 100 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| alpha-Chlordane | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| gamma-Chlordane | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Surrogates(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 77.2 | 50-125 | % | 2.00 | 05/21/2003 10:21 | |
| Decachlorobiphenyl (Pest/8081) | 76.2 | 46-142 | % | 2.00 | 05/21/2003 10:21 | |

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

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06/02/2003 14:51

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 3550/8081 Test(s): 8081
 Sample ID: SS-A4-1 Lab ID: 2003-05-0529 - 7
 Sampled: 05/16/2003 Extracted: 5/20/2003 06:25
 Matrix: Soil QC Batch#: 2003/05/20-01.13

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|-------|----------|------------------|------|
| Aldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Dieldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Endrin aldehyde | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Endrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Endrin ketone | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Heptachlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Heptachlor epoxide | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| 4,4'-DDT | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| 4,4'-DDE | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| 4,4'-DDD | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Endosulfan I | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Endosulfan II | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| alpha-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| beta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| gamma-BHC (Lindane) | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| delta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Endosulfan sulfate | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| 4,4'-Methoxychlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Toxaphene | ND | 100 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Chlordane (Technical) | ND | 50 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| alpha-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| gamma-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Surrogates(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 75.6 | 50-125 | % | 1.00 | 05/21/2003 12:25 | |
| Decachlorobiphenyl (Pest/8081) | 76.1 | 46-142 | % | 1.00 | 05/21/2003 12:25 | |

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06/02/2003 14:51

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue
Oakland, CA 94610
Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00
Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 3550/8081 Test(s): 8081
Sample ID: **SS-B1-1** Lab ID: 2003-05-0529 - 9
Sampled: 05/16/2003 Extracted: 5/20/2003 06:25
Matrix: Soil QC Batch#: 2003/05/20-01.13

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|-------|----------|------------------|------|
| Aldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Dieldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Endrin aldehyde | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Endrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Endrin ketone | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Heptachlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Heptachlor epoxide | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| 4,4'-DDT | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| 4,4'-DDE | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| 4,4'-DDD | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Endosulfan I | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Endosulfan II | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| alpha-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| beta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| gamma-BHC (Lindane) | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| delta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Endosulfan sulfate | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| 4,4'-Methoxychlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Toxaphene | ND | 100 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Chlordane (Technical) | ND | 50 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| alpha-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| gamma-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Surrogates(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 75.2 | 50-125 | % | 1.00 | 05/21/2003 10:52 | |
| Decachlorobiphenyl (Pest/8081) | 73.6 | 46-142 | % | 1.00 | 05/21/2003 10:52 | |

Severn Trent Laboratories, Inc.

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06/02/2003 14:51

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue
Oakland, CA 94610
Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00
Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 3550/8081 Test(s): 8081
Sample ID: **SS-B2-1** Lab ID: 2003-05-0529 - 11
Sampled: 05/16/2003 Extracted: 5/20/2003 06:25
Matrix: Soil QC Batch#: 2003/05/20-01.13

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|-------|----------|------------------|------|
| Aldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Dieldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Endrin aldehyde | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Endrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Endrin ketone | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Heptachlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Heptachlor epoxide | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| 4,4'-DDT | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| 4,4'-DDE | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| 4,4'-DDD | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Endosulfan I | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Endosulfan II | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| alpha-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| beta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| gamma-BHC (Lindane) | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| delta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Endosulfan sulfate | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| 4,4'-Methoxychlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Toxaphene | ND | 100 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Chlordane (Technical) | ND | 50 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| alpha-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| gamma-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Surrogates(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 81.4 | 50-125 | % | 1.00 | 05/21/2003 11:23 | |
| Decachlorobiphenyl (Pest/8081) | 84.1 | 46-142 | % | 1.00 | 05/21/2003 11:23 | |

Severn Trent Laboratories, Inc.

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06/02/2003 14:51

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 3550/8081

Test(s): 8081

Sample ID: SS-B3-1

Lab ID: 2003-05-0529 - 13

Sampled: 05/16/2003

Extracted: 5/20/2003 06:25

Matrix: Soil

QC Batch#: 2003/05/20-01.13

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|-------|----------|------------------|------|
| Aldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Dieldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Endrin aldehyde | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Endrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Endrin ketone | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Heptachlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Heptachlor epoxide | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| 4,4'-DDT | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| 4,4'-DDE | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| 4,4'-DDD | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Endosulfan I | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Endosulfan II | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| alpha-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| beta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| gamma-BHC (Lindane) | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| delta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Endosulfan sulfate | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| 4,4'-Methoxychlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Toxaphene | ND | 100 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Chlordane (Technical) | ND | 50 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| alpha-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| gamma-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Surrogates(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 74.7 | 50-125 | % | 1.00 | 05/21/2003 11:54 | |
| Decachlorobiphenyl (Pest/8081) | 82.3 | 46-142 | % | 1.00 | 05/21/2003 11:54 | |

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06/02/2003 14:51

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland
Attn.: Dennis Laduzinsky

3629 Grand Avenue
Oakland, CA 94610
Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00
Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 3550/8081 Test(s): 8081
Sample ID: SS-B4-1 Lab ID: 2003-05-0529 - 15
Sampled: 05/16/2003 Extracted: 5/20/2003 06:25
Matrix: Soil QC Batch#: 2003/05/20-01.13

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|-------|----------|------------------|------|
| Aldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Dieldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Endrin aldehyde | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Endrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Endrin ketone | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Heptachlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Heptachlor epoxide | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| 4,4'-DDT | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| 4,4'-DDE | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| 4,4'-DDD | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Endosulfan I | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Endosulfan II | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| alpha-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| beta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| gamma-BHC (Lindane) | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| delta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Endosulfan sulfate | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| 4,4'-Methoxychlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Toxaphene | ND | 100 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Chlordane (Technical) | ND | 50 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| alpha-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| gamma-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Surrogates(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 77.3 | 50-125 | % | 1.00 | 05/21/2003 12:56 | |
| Decachlorobiphenyl (Pest/8081) | 80.9 | 46-142 | % | 1.00 | 05/21/2003 12:56 | |

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/02/2003 14:51

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Batch QC Report

Prep(s): 3550/8081

Method Blank

MB: 2003/05/20-01.13-001

Soil

Test(s): 8081

QC Batch # 2003/05/20-01.13

Date Extracted: 05/20/2003 06:25

| Compound | Conc. | RL | Unit | Analyzed | Flag |
|--------------------------------|-------|--------|-------|------------------|------|
| Aldrin | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Dieldrin | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Endrin aldehyde | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Endrin | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Endrin ketone | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Heptachlor | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Heptachlor epoxide | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| 4,4'-DDT | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| 4,4'-DDE | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| 4,4'-DDD | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Endosulfan I | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Endosulfan II | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| alpha-BHC | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| beta-BHC | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| gamma-BHC (Lindane) | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| delta-BHC | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Endosulfan sulfate | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| 4,4'-Methoxychlor | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Toxaphene | ND | 100 | ug/Kg | 05/20/2003 15:04 | |
| Chlordane (Technical) | ND | 50 | ug/Kg | 05/20/2003 15:04 | |
| alpha-Chlordane | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| gamma-Chlordane | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Surrogates(s) | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 85.8 | 50-125 | % | 05/20/2003 15:04 | |
| Decachlorobiphenyl (Pest/8081) | 79.7 | 46-142 | % | 05/20/2003 15:04 | |

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/02/2003 14:51

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue
Oakland, CA 94610
Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00
Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Batch QC Report

Prep(s): 3550/8081

Test(s): 8081

Laboratory Control Spike

Soil

QC Batch # 2003/05/20-01.13

LCS 2003/05/20-01.13-002

Extracted: 05/20/2003

Analyzed: 05/20/2003 15:35

LCSD 2003/05/20-01.13-003

Extracted: 05/20/2003

Analyzed: 05/20/2003 16:06

| Compound | Conc. ug/Kg | | Exp.Conc. | Recovery | | RPD | Ctrl.Limits % | | Flags | |
|------------------------------|-------------|------|-----------|----------|------|-----|---------------|------|-------|-----|
| | LCS | LCSD | | LCS | LCSD | | % | Rec. | RPD | LCS |
| Aldrin | 14.2 | 15.1 | 16.7 | 85.0 | 90.4 | 6.2 | 37-136 | 25 | | |
| Dieldrin | 14.1 | 15.1 | 16.7 | 84.4 | 90.4 | 6.9 | 58-135 | 35 | | |
| Endrin | 14.1 | 15.3 | 16.7 | 84.4 | 91.6 | 8.2 | 58-134 | 35 | | |
| Heptachlor | 15.1 | 14.8 | 16.7 | 90.4 | 88.6 | 2.0 | 40-136 | 20 | | |
| 4,4'-DDT | 14.2 | 15.5 | 16.7 | 85.0 | 92.8 | 8.8 | 55-132 | 35 | | |
| gamma-BHC (Lindane) | 14.2 | 15.0 | 16.7 | 85.0 | 89.8 | 5.5 | 37-137 | 35 | | |
| Surrogates(s) | | | | | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 44.3 | 46.1 | 50 | 88.7 | 92.1 | | 50-125 | 0 | | |
| Decachlorobiphenyl | 41.7 | 45.9 | 50 | 83.5 | 91.7 | | 46-142 | 0 | | |

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Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Legend and Notes

Analysis Flag

Im

Reporting limits raised due to high level of non-target analyte materials.

Severn Trent Laboratories, Inc.

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Organochlorine Pesticides Analysis

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3629 Grand Avenue
Oakland, CA 94610
Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00
Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Samples Reported

| Sample Name | Date Sampled | Matrix | Lab # |
|-------------|--------------|--------|-------|
| SS-A1-1 | 05/16/2003 | Soil | 1 |
| SS-A2-1 | 05/16/2003 | Soil | 3 |
| SS-A3-1 | 05/16/2003 | Soil | 5 |
| SS-A4-1 | 05/16/2003 | Soil | 7 |
| SS-B1-1 | 05/16/2003 | Soil | 9 |
| SS-B2-1 | 05/16/2003 | Soil | 11 |
| SS-B3-1 | 05/16/2003 | Soil | 13 |
| SS-B4-1 | 05/16/2003 | Soil | 15 |

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

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Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 3550/8081 Test(s): 8081
 Sample ID: SS-A1-1 Lab ID: 2003-05-0529 - 1
 Sampled: 05/16/2003 Extracted: 5/20/2003 06:25
 Matrix: Soil QC Batch#: 2003/05/20-01.13

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|-------|----------|------------------|------|
| Aldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Dieldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Endrin aldehyde | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Endrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Endrin ketone | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Heptachlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Heptachlor epoxide | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| 4,4'-DDT | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| 4,4'-DDE | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| 4,4'-DDD | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Endosulfan I | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Endosulfan II | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| alpha-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| beta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| gamma-BHC (Lindane) | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| delta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Endosulfan sulfate | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| 4,4'-Methoxychlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Toxaphene | ND | 100 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Chlordane (Technical) | ND | 50 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| alpha-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| gamma-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 09:19 | |
| Surrogates(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 68.4 | 50-125 | % | 1.00 | 05/21/2003 09:19 | |
| Decachlorobiphenyl (Pest/8081) | 73.1 | 46-142 | % | 1.00 | 05/21/2003 09:19 | |

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Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 3550/8081 Test(s): 8081
 Sample ID: SS-A2-1 Lab ID: 2003-05-0529 - 3
 Sampled: 05/16/2003 Extracted: 5/30/2003 07:25
 Matrix: Soil QC Batch#: 2003/05/30-01.13

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|-------|----------|------------------|------|
| Aldrin | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Dieldrin | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Endrin aldehyde | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Endrin | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Endrin ketone | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Heptachlor | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Heptachlor epoxide | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| 4,4'-DDT | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| 4,4'-DDE | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| 4,4'-DDD | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Endosulfan I | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Endosulfan II | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| alpha-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| beta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| gamma-BHC (Lindane) | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| delta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Endosulfan sulfate | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| 4,4'-Methoxychlor | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Toxaphene | ND | 100 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Chlordane (Technical) | ND | 50 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| alpha-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| gamma-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/30/2003 12:40 | |
| Surrogates(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 83.2 | 50-125 | % | 1.00 | 05/30/2003 12:40 | |
| Decachlorobiphenyl (Pest/8081) | 78.2 | 46-142 | % | 1.00 | 05/30/2003 12:40 | |

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue
Oakland, CA 94610
Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00
Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 3550/8081 Test(s): 8081
Sample ID: SS-A3-1 Lab ID: 2003-05-0529 - 5
Sampled: 05/16/2003 Extracted: 5/20/2003 06:25
Matrix: Soil QC Batch#: 2003/05/20-01.13
Analysis Flag: Irm (See Legend and Note Section)

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|-------|----------|------------------|------|
| Aldrin | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Dieldrin | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Endrin aldehyde | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Endrin | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Endrin ketone | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Heptachlor | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Heptachlor epoxide | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| 4,4'-DDT | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| 4,4'-DDE | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| 4,4'-DDD | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Endosulfan I | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Endosulfan II | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| alpha-BHC | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| beta-BHC | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| gamma-BHC (Lindane) | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| delta-BHC | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Endosulfan sulfate | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| 4,4'-Methoxychlor | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Toxaphene | ND | 200 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Chlordane (Technical) | ND | 100 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| alpha-Chlordane | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| gamma-Chlordane | ND | 4.0 | ug/Kg | 2.00 | 05/21/2003 10:21 | |
| Surrogates(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 77.2 | 50-125 | % | 2.00 | 05/21/2003 10:21 | |
| Decachlorobiphenyl (Pest/8081) | 76.2 | 46-142 | % | 2.00 | 05/21/2003 10:21 | |

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/02/2003 14:51

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue
Oakland, CA 94610
Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00
Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 3550/8081 Test(s): 8081
Sample ID: SS-A4-1 Lab ID: 2003-05-0529 - 7
Sampled: 05/16/2003 Extracted: 5/20/2003 06:25
Matrix: Soil QC Batch#: 2003/05/20-01.13

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|-------|----------|------------------|------|
| Aldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Dieldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Endrin aldehyde | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Endrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Endrin ketone | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Heptachlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Heptachlor epoxide | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| 4,4'-DDT | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| 4,4'-DDE | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| 4,4'-DDD | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Endosulfan I | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Endosulfan II | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| alpha-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| beta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| gamma-BHC (Lindane) | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| delta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Endosulfan sulfate | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| 4,4'-Methoxychlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Toxaphene | ND | 100 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Chlordane (Technical) | ND | 50 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| alpha-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| gamma-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:25 | |
| Surrogates(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 75.6 | 50-125 | % | 1.00 | 05/21/2003 12:25 | |
| Decachlorobiphenyl (Pest/8081) | 76.1 | 46-142 | % | 1.00 | 05/21/2003 12:25 | |

Severn Trent Laboratories, Inc.

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06/02/2003 14:51

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 3550/8081 Test(s): 8081
 Sample ID: SS-B1-1 Lab ID: 2003-05-0529 - 9
 Sampled: 05/16/2003 Extracted: 5/20/2003 06:25
 Matrix: Soil QC Batch#: 2003/05/20-01.13

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|-------|----------|------------------|------|
| Aldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Dieldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Endrin aldehyde | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Endrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Endrin ketone | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Heptachlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Heptachlor epoxide | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| 4,4'-DDT | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| 4,4'-DDE | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| 4,4'-DDD | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Endosulfan I | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Endosulfan II | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| alpha-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| beta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| gamma-BHC (Lindane) | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| delta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Endosulfan sulfate | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| 4,4'-Methoxychlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Toxaphene | ND | 100 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Chlordane (Technical) | ND | 50 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| alpha-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| gamma-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 10:52 | |
| Surrogates(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 75.2 | 50-125 | % | 1.00 | 05/21/2003 10:52 | |
| Decachlorobiphenyl (Pest/8081) | 73.6 | 46-142 | % | 1.00 | 05/21/2003 10:52 | |

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06/02/2003 14:51

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 3550/8081 Test(s): 8081
 Sample ID: **SS-B2-1** Lab ID: 2003-05-0529 - 11
 Sampled: 05/16/2003 Extracted: 5/20/2003 06:25
 Matrix: Soil QC Batch#: 2003/05/20-01.13

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|-------|----------|------------------|------|
| Aldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Dieldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Endrin aldehyde | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Endrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Endrin ketone | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Heptachlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Heptachlor epoxide | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| 4,4'-DDT | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| 4,4'-DDE | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| 4,4'-DDD | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Endosulfan I | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Endosulfan II | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| alpha-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| beta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| gamma-BHC (Lindane) | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| delta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Endosulfan sulfate | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| 4,4'-Methoxychlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Toxaphene | ND | 100 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Chlordane (Technical) | ND | 50 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| alpha-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| gamma-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:23 | |
| Surrogates(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 81.4 | 50-125 | % | 1.00 | 05/21/2003 11:23 | |
| Decachlorobiphenyl (Pest/8081) | 84.1 | 46-142 | % | 1.00 | 05/21/2003 11:23 | |

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/02/2003 14:51

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

| | | | |
|------------|------------|------------|-------------------|
| Prep(s): | 3550/8081 | Test(s): | 8081 |
| Sample ID: | SS-B3-1 | Lab ID: | 2003-05-0529 - 13 |
| Sampled: | 05/16/2003 | Extracted: | 5/20/2003 06:25 |
| Matrix: | Soil | QC Batch#: | 2003/05/20-01.13 |

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|-------|----------|------------------|------|
| Aldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Dieldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Endrin aldehyde | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Endrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Endrin ketone | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Heptachlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Heptachlor epoxide | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| 4,4'-DDT | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| 4,4'-DDE | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| 4,4'-DDD | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Endosulfan I | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Endosulfan II | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| alpha-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| beta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| gamma-BHC (Lindane) | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| delta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Endosulfan sulfate | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| 4,4'-Methoxychlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Toxaphene | ND | 100 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Chlordane (Technical) | ND | 50 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| alpha-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| gamma-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 11:54 | |
| Surrogates(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 74.7 | 50-125 | % | 1.00 | 05/21/2003 11:54 | |
| Decachlorobiphenyl (Pest/8081) | 82.3 | 46-142 | % | 1.00 | 05/21/2003 11:54 | |

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/02/2003 14:51

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 3550/8081

Test(s): 8081

Sample ID: **SS-B4-1**

Lab ID: 2003-05-0529 - 15

Sampled: 05/16/2003

Extracted: 5/20/2003 06:25

Matrix: Soil

QC Batch#: 2003/05/20-01.13

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|-------|----------|------------------|------|
| Aldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Dieldrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Endrin aldehyde | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Endrin | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Endrin ketone | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Heptachlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Heptachlor epoxide | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| 4,4'-DDT | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| 4,4'-DDE | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| 4,4'-DDD | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Endosulfan I | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Endosulfan II | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| alpha-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| beta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| gamma-BHC (Lindane) | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| delta-BHC | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Endosulfan sulfate | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| 4,4'-Methoxychlor | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Toxaphene | ND | 100 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Chlordane (Technical) | ND | 50 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| alpha-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| gamma-Chlordane | ND | 2.0 | ug/Kg | 1.00 | 05/21/2003 12:56 | |
| Surrogates(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 77.3 | 50-125 | % | 1.00 | 05/21/2003 12:56 | |
| Decachlorobiphenyl (Pest/8081) | 80.9 | 46-142 | % | 1.00 | 05/21/2003 12:56 | |

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/02/2003 14:51

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Batch QC Report

Prep(s): 3550/8081

Method Blank

MB: 2003/05/20-01.13-001

Soil

Test(s): 8081

QC Batch # 2003/05/20-01.13

Date Extracted: 05/20/2003 06:25

| Compound | Conc. | RL | Unit | Analyzed | Flag |
|--------------------------------|-------|--------|-------|------------------|------|
| Aldrin | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Dieldrin | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Endrin aldehyde | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Endrin | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Endrin ketone | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Heptachlor | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Heptachlor epoxide | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| 4,4'-DDT | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| 4,4'-DDE | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| 4,4'-DDD | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Endosulfan I | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Endosulfan II | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| alpha-BHC | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| beta-BHC | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| gamma-BHC (Lindane) | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| delta-BHC | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Endosulfan sulfate | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| 4,4'-Methoxychlor | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Toxaphene | ND | 100 | ug/Kg | 05/20/2003 15:04 | |
| Chlordane (Technical) | ND | 50 | ug/Kg | 05/20/2003 15:04 | |
| alpha-Chlordane | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| gamma-Chlordane | ND | 2.0 | ug/Kg | 05/20/2003 15:04 | |
| Surrogates(s) | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 85.8 | 50-125 | % | 05/20/2003 15:04 | |
| Decachlorobiphenyl (Pest/8081) | 79.7 | 46-142 | % | 05/20/2003 15:04 | |

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

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06/02/2003 14:51

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland
Attn.: Dennis Laduzinsky

3629 Grand Avenue
Oakland, CA 94610
Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00
Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Batch QC Report

Prep(s): 3550/8081

Test(s): 8081

Laboratory Control Spike

Soil

QC Batch # 2003/05/20-01.13

LCS 2003/05/20-01.13-002

Extracted: 05/20/2003

Analyzed: 05/20/2003 15:35

LCSD 2003/05/20-01.13-003

Extracted: 05/20/2003

Analyzed: 05/20/2003 16:06

| Compound | Conc. ug/Kg | | Exp. Conc. | Recovery | | RPD | Ctrl.Limits % | | Flags | |
|------------------------------|-------------|------|------------|----------|------|-----|---------------|------|-------|-----|
| | LCS | LCSD | | LCS | LCSD | | % | Rec. | RPD | LCS |
| Aldrin | 14.2 | 15.1 | 16.7 | 85.0 | 90.4 | 6.2 | 37-136 | 25 | | |
| Dieldrin | 14.1 | 15.1 | 16.7 | 84.4 | 90.4 | 6.9 | 58-135 | 35 | | |
| Endrin | 14.1 | 15.3 | 16.7 | 84.4 | 91.6 | 8.2 | 58-134 | 35 | | |
| Heptachlor | 15.1 | 14.8 | 16.7 | 90.4 | 88.6 | 2.0 | 40-136 | 20 | | |
| 4,4'-DDT | 14.2 | 15.5 | 16.7 | 85.0 | 92.8 | 8.8 | 55-132 | 35 | | |
| gamma-BHC (Lindane) | 14.2 | 15.0 | 16.7 | 85.0 | 89.8 | 5.5 | 37-137 | 35 | | |
| Surrogates(s) | | | | | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 44.3 | 46.1 | 50 | 88.7 | 92.1 | | 50-125 | 0 | | |
| Decachlorobiphenyl | 41.7 | 45.9 | 50 | 83.5 | 91.7 | | 46-142 | 0 | | |

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/02/2003 14:51

Organochlorine Pesticides Analysis

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Legend and Notes

Analysis Flag

Irn

Reporting limits raised due to high level of non-target analyte materials.

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/02/2003 14:51

**SEVERN TRENT LABORATORIES
ANALYTICAL REPORT**

JOB NUMBER: 217626

Prepared For:

Severn Trent Laboratories
1220 Quarry Lane
Pleasanton, CA 94566-4756

Project: STL San Francisco

Attention: Surinder Sidhu

Date: 05/30/2003

Bonnie Stadelmann
Signature

05/30/03
Date

Name: Bonnie Stadelmann
Title: Project Manager
E-Mail: bstadelmann@stl-inc.com

STL Chicago
2417 Bond Street
University Park, IL 60466
PHONE: (708) 534-5200
FAX...: (708) 534-5211


STL Chicago
Phosphorus Pesticide Case Narrative

STL San Francisco
2003-05-0529
Job #: 217626-1 through 16
Phosphorus Pesticides

1. STL Chicago uses the following Gas Chromatographic system for analysis of phosphorus pesticides:

| <u>ID#</u> | <u>INSTRUMENT</u> | <u>COLUMN TYPE</u> | <u>DETECTOR</u> |
|------------|-------------------|--------------------|-----------------|
| 19 | Varian 3600 | Rtx-5 | FPD |
| 20 | Varian 3600 | Rtx-35 | FPD |

2. These soil sample was extracted based on SW846 method 3550. The extracts were analyzed for Appendix IX phosphorus pesticides based on SW846 method 8141.
3. All required holding times were met for the extraction and analysis.
4. The method blank was below the reporting limits for all target compounds.
5. The surrogate compounds used for this analysis were Tributylphosphate (TBP) and Triphenylphosphate (TPP). All surrogate recoveries were within statistical control limits except 217626-10 (SS-C2-1), which had TBP with 33% recovery. Sample was re-analyzed with similar results and only the first analysis reported. Target compounds were not detected in these samples.
6. All blank spike and blank spike duplicate recoveries were within statistical control limits except All RPDs were <30%.
7. A matrix spike and a matrix spike duplicate were not performed on a sample from this SDG.
8. All initial and continuing standard calibrations associated with these samples were within method control limits for all target compounds.
9. Target compounds were not detected from the primary analysis. Therefore, a second column confirmation was not required.



Patti Gibson
Organics Section Manager

5/30/3

Date

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SAMPLE INFORMATION
Date: 05/30/2003

Job Number.: 217626
Customer...: Severn Trent Laboratories
Attn.....: Surinder Sidhu

Project Number.....: 20002032
Customer Project ID....: 2003-05-0529
Project Description....: STL San Francisco

| Laboratory Sample ID | Customer Sample ID | Sample Matrix | Date Sampled | Time Sampled | Date Received | Time Received |
|----------------------|--------------------|---------------|--------------|--------------|---------------|---------------|
| 217626-1 | SS-A1-1 | Soil | 05/16/2003 | 12:00 | 05/21/2003 | 09:55 |
| 217626-2 | SS-A2-1 | Soil | 05/16/2003 | 12:00 | 05/21/2003 | 09:55 |
| 217626-3 | SS-A3-1 | Soil | 05/16/2003 | 12:00 | 05/21/2003 | 09:55 |
| 217626-4 | SS-A4-1 | Soil | 05/16/2003 | 12:00 | 05/21/2003 | 09:55 |
| 217626-5 | SS-B1-1 | Soil | 05/16/2003 | 12:00 | 05/21/2003 | 09:55 |
| 217626-6 | SS-B2-1 | Soil | 05/16/2003 | 12:00 | 05/21/2003 | 09:55 |
| 217626-7 | SS-B3-1 | Soil | 05/16/2003 | 12:00 | 05/21/2003 | 09:55 |
| 217626-8 | SS-B4-1 | Soil | 05/16/2003 | 12:00 | 05/21/2003 | 09:55 |
| 217626-9 | SS-C1-1 | Soil | 05/16/2003 | 12:00 | 05/21/2003 | 09:55 |
| 217626-10 | SS-C2-1 | Soil | 05/16/2003 | 12:00 | 05/21/2003 | 09:55 |
| 217626-11 | SS-C3-1 | Soil | 05/16/2003 | 12:00 | 05/21/2003 | 09:55 |
| 217626-12 | SS-C4-1 | Soil | 05/16/2003 | 12:00 | 05/21/2003 | 09:55 |
| 217626-13 | SS-D1-1 | Soil | 05/16/2003 | 12:00 | 05/21/2003 | 09:55 |
| 217626-14 | SS-D2-1 | Soil | 05/16/2003 | 12:00 | 05/21/2003 | 09:55 |
| 217626-15 | SS-D3-1 | Soil | 05/16/2003 | 12:00 | 05/21/2003 | 09:55 |
| 217626-16 | SS-D4-1 | Soil | 05/16/2003 | 12:00 | 05/21/2003 | 09:55 |

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LABORATORY TEST RESULTS

Job Number: 217626

Date: 05/30/2003

CUSTOMER: Severn Trent Laboratories

PROJECT: 2003-05-0529

ATTN: Surinder Sidhu

Customer Sample ID: SS-A1-1
 Date Sampled.....: 05/16/2003
 Time Sampled.....: 12:00
 Sample Matrix.....: Soil

Laboratory Sample ID: 217626-1
 Date Received.....: 05/21/2003
 Time Received.....: 09:55

| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | REPORTING LIMIT | UNITS | DATE | TECH |
|-------------|-------------------------------------|---------------|-----------------|-------|----------|------|
| Method | % Solids Determination | 85.8 | 0.10 | % | 05/22/03 | pfk |
| | % Solids, Solid | 14.2 | 0.10 | % | 05/22/03 | pfk |
| | % Moisture, Solid | | | | | |
| 8141A | Organophosphorus Pesticide Analysis | | | | | |
| | o,o,o-TEPA, Solid* | ND | 77 | ug/Kg | 05/29/03 | pij |
| | Phorate, Solid* | ND | 77 | ug/Kg | 05/29/03 | pij |
| | Thionazin, Solid* | ND | 77 | ug/Kg | 05/29/03 | pij |
| | Disulfoton, Solid* | ND | 77 | ug/Kg | 05/29/03 | pij |
| | Sulfotep, Solid* | ND | 77 | ug/Kg | 05/29/03 | pij |
| | Dimethoate, Solid* | ND | 77 | ug/Kg | 05/29/03 | pij |
| | Methyl parathion, Solid* | ND | 77 | ug/Kg | 05/29/03 | pij |
| | Parathion, Solid* | ND | 77 | ug/Kg | 05/29/03 | pij |
| | Famphur, Solid* | ND | 77 | ug/Kg | 05/29/03 | pij |

* In Description = Dry Wgt.

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| LABORATORY TEST RESULTS | | | | | | |
|--|-------------------------------------|-----------------------|---|----------------------|----------|------|
| Job Number: 217626 | | | Date: 05/30/2003 | | | |
| CUSTOMER: Severn Trent Laboratories | | PROJECT: 2003-05-0529 | | ATTN: Surinder Sidhu | | |
| Customer Sample ID: SS-A2-1 Date Sampled.....: 05/16/2003 Time Sampled.....: 12:00 Sample Matrix.....: Soil | | | Laboratory Sample ID: 217626-2 Date Received.....: 05/21/2003 Time Received.....: 09:55 | | | |
| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | REPORTING LIMIT | UNITS | DATE | TECH |
| Method | % Solids Determination | 82.3 | 0.10 | % | 05/22/03 | pfk |
| | % Solids, Solid | 17.7 | 0.10 | % | 05/22/03 | pfk |
| 8141A | Organophosphorus Pesticide Analysis | | | | | |
| | o,o,o-TEPA, Solid* | ND | 81 | ug/Kg | 05/29/03 | pjg |
| | Phorate, Solid* | ND | 81 | ug/Kg | 05/29/03 | pjg |
| | Thionazin, Solid* | ND | 81 | ug/Kg | 05/29/03 | pjg |
| | Disulfoton, Solid* | ND | 81 | ug/Kg | 05/29/03 | pjg |
| | Sulfotep, Solid* | ND | 81 | ug/Kg | 05/29/03 | pjg |
| | Dimethoate, Solid* | ND | 81 | ug/Kg | 05/29/03 | pjg |
| | Methyl parathion, Solid* | ND | 81 | ug/Kg | 05/29/03 | pjg |
| | Parathion, Solid* | ND | 81 | ug/Kg | 05/29/03 | pjg |
| | Famphur, Solid* | ND | 81 | ug/Kg | 05/29/03 | pjg |

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 217626

Date: 05/30/2003

CUSTOMER: Severn Trent Laboratories

PROJECT: 2003-05-0529

ATTN: Surinder Sidhu

Customer Sample ID: SS-A3-1
 Date Sampled.....: 05/16/2003
 Time Sampled.....: 12:00
 Sample Matrix.....: Soil

Laboratory Sample ID: 217626-3
 Date Received.....: 05/21/2003
 Time Received.....: 09:55

| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | REPORTING LIMIT | UNITS | DATE | TECH |
|-----------------|-------------------------------------|---------------|-----------------|----------|----------|------|
| Method | % Solids Determination | 87.6 | 0.10 | % | 05/22/03 | pfk |
| | % Solids, Solid | 12.4 | 0.10 | % | 05/22/03 | pfk |
| 8141A | Organophosphorus Pesticide Analysis | | | | | |
| | o,o,o-TEPA, Solid* | ND | 76 | ug/Kg | 05/29/03 | pij |
| | Phorate, Solid* | ND | 76 | ug/Kg | 05/29/03 | pij |
| | Thionazin, Solid* | ND | 76 | ug/Kg | 05/29/03 | pij |
| | Disulfoton, Solid* | ND | 76 | ug/Kg | 05/29/03 | pij |
| | Sulfotep, Solid* | ND | 76 | ug/Kg | 05/29/03 | pij |
| | Dimethoate, Solid* | ND | 76 | ug/Kg | 05/29/03 | pij |
| | Methyl parathion, Solid* | ND | 76 | ug/Kg | 05/29/03 | pij |
| | Parathion, Solid* | ND | 76 | ug/Kg | 05/29/03 | pij |
| Famphur, Solid* | ND | 76 | ug/Kg | 05/29/03 | pij | |

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

| LABORATORY TEST RESULTS | | | | | | |
|--|-------------------------------------|-----------------------|---|----------------------|------------------|------|
| Job Number: 217626 | | | | | Date: 05/30/2003 | |
| CUSTOMER: Severn Trent Laboratories | | PROJECT: 2003-05-0529 | | ATTN: Surinder Sidhu | | |
| Customer Sample ID: SS-A4-1 Date Sampled.....: 05/16/2003 Time Sampled.....: 12:00 Sample Matrix.....: Soil | | | Laboratory Sample ID: 217626-4 Date Received.....: 05/21/2003 Time Received.....: 09:55 | | | |
| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | REPORTING LIMIT | UNITS | DATE | TECH |
| Method | % Solids Determination | 87.0 | 0.10 | % | 05/22/03 | pfk |
| | % Solids, Solid | | | | | |
| | % Moisture, Solid | 13.0 | 0.10 | % | 05/22/03 | pfk |
| 8141A | Organophosphorus Pesticide Analysis | | 77 | ug/Kg | 05/29/03 | pjg |
| | o,o,o-TEPA, Solid* | ND | 77 | ug/Kg | 05/29/03 | pjg |
| | Phorate, Solid* | ND | 77 | ug/Kg | 05/29/03 | pjg |
| | Thionazin, Solid* | ND | 77 | ug/Kg | 05/29/03 | pjg |
| | Disulfoton, Solid* | ND | 77 | ug/Kg | 05/29/03 | pjg |
| | Sulfotep, Solid* | ND | 77 | ug/Kg | 05/29/03 | pjg |
| | Dimethoate, Solid* | ND | 77 | ug/Kg | 05/29/03 | pjg |
| | Methyl parathion, Solid* | ND | 77 | ug/Kg | 05/29/03 | pjg |
| | Parathion, Solid* | ND | 77 | ug/Kg | 05/29/03 | pjg |
| Famphur, Solid* | ND | 77 | ug/Kg | 05/29/03 | pjg | |

* In Description = Dry Wgt.

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| LABORATORY TEST RESULTS | | | | | | |
|--|-------------------------------------|-----------------------|---|----------------------|------------------|------|
| Job Number: 217626 | | | | | Date: 05/30/2003 | |
| CUSTOMER: Severn Trent Laboratories | | PROJECT: 2003-05-0529 | | ATTN: Suninder Sidhu | | |
| Customer Sample ID: SS-B1-1 Date Sampled.....: 05/16/2003 Time Sampled.....: 12:00 Sample Matrix.....: Soil | | | Laboratory Sample ID: 217626-5 Date Received.....: 05/21/2003 Time Received.....: 09:55 | | | |
| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | REPORTING LIMIT | UNITS | DATE | TECH |
| Method | % Solids Determination | 88.2 | 0.10 | % | 05/22/03 | pfk |
| | % Solids, Solid | 11.8 | 0.10 | % | 05/22/03 | pfk |
| 8141A | Organophosphorus Pesticide Analysis | | | | | |
| | o,o,o-TEPA, Solid* | ND | 74 | ug/Kg | 05/29/03 | pjg |
| | Phorate, Solid* | ND | 74 | ug/Kg | 05/29/03 | pjg |
| | Thionazin, Solid* | ND | 74 | ug/Kg | 05/29/03 | pjg |
| | Disulfoton, Solid* | ND | 74 | ug/Kg | 05/29/03 | pjg |
| | Sulfotep, Solid* | ND | 74 | ug/Kg | 05/29/03 | pjg |
| | Dimethoate, Solid* | ND | 74 | ug/Kg | 05/29/03 | pjg |
| | Methyl parathion, Solid* | ND | 74 | ug/Kg | 05/29/03 | pjg |
| | Parathion, Solid* | ND | 74 | ug/Kg | 05/29/03 | pjg |
| Famphur, Solid* | ND | 74 | ug/Kg | 05/29/03 | pjg | |

* In Description = Dry Wgt.

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| LABORATORY TEST RESULTS | | | | | | |
|--|-------------------------------------|-----------------------|---|----------------------|------------------|------|
| Job Number: 217626 | | | | | Date: 05/30/2003 | |
| CUSTOMER: Severn Trent Laboratories | | PROJECT: 2003-05-0529 | | ATTN: Surinder Sidhu | | |
| Customer Sample ID: SS-82-1 Date Sampled.....: 05/16/2003 Time Sampled.....: 12:00 Sample Matrix.....: Soil | | | Laboratory Sample ID: 217626-6 Date Received.....: 05/21/2003 Time Received.....: 09:55 | | | |
| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | REPORTING LIMIT | UNITS | DATE | TECH |
| Method | % Solids Determination | 84.0 | 0.10 | % | 05/22/03 | pfk |
| | % Solids, Solid | 16.0 | 0.10 | % | 05/22/03 | pfk |
| 8141A | Organophosphorus Pesticide Analysis | | | | | |
| | o,o,o-TEPA, Solid* | ND | 79 | ug/Kg | 05/29/03 | pij |
| | Phorate, Solid* | ND | 79 | ug/Kg | 05/29/03 | pij |
| | Thionazin, Solid* | ND | 79 | ug/Kg | 05/29/03 | pij |
| | Disulfoton, Solid* | ND | 79 | ug/Kg | 05/29/03 | pij |
| | Sulfotep, Solid* | ND | 79 | ug/Kg | 05/29/03 | pij |
| | Dimethoate, Solid* | ND | 79 | ug/Kg | 05/29/03 | pij |
| | Methyl parathion, Solid* | ND | 79 | ug/Kg | 05/29/03 | pij |
| | Parathion, Solid* | ND | 79 | ug/Kg | 05/29/03 | pij |
| | Famphur, Solid* | ND | 79 | ug/Kg | 05/29/03 | pij |

* In Description = Dry Wgt.

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| | | |
|--|--------------------------------|---|
| Job Number: 217626 | LABORATORY TEST RESULTS | Date: 05/30/2003 |
| CUSTOMER: Severn Trent Laboratories | PROJECT: 2003-05-0529 | ATTN: Surinder Sidhu |
| Customer Sample ID: SS-B3-1 Date Sampled.....: 05/16/2003 Time Sampled.....: 12:00 Sample Matrix.....: Soil | | Laboratory Sample ID: 217626-7 Date Received.....: 05/21/2003 Time Received.....: 09:55 |

| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | REPORTING LIMIT | UNITS | DATE | TECH |
|-------------|-------------------------------------|---------------|-----------------|-------|----------|------|
| Method | % Solids Determination | | | | | |
| | % Solids, Solid | 88.8 | 0.10 | % | 05/22/03 | pfk |
| | % Moisture, Solid | 11.2 | 0.10 | % | 05/22/03 | pfk |
| 8141A | Organophosphorus Pesticide Analysis | | | | | |
| | o,o,o-TEPA, Solid* | ND | 73 | ug/Kg | 05/29/03 | pjb |
| | Phorate, Solid* | ND | 73 | ug/Kg | 05/29/03 | pjb |
| | Thionazin, Solid* | ND | 73 | ug/Kg | 05/29/03 | pjb |
| | Disulfoton, Solid* | ND | 73 | ug/Kg | 05/29/03 | pjb |
| | Sulfotep, Solid* | ND | 73 | ug/Kg | 05/29/03 | pjb |
| | Dimethoate, Solid* | ND | 73 | ug/Kg | 05/29/03 | pjb |
| | Methyl parathion, Solid* | ND | 73 | ug/Kg | 05/29/03 | pjb |
| | Parathion, Solid* | ND | 73 | ug/Kg | 05/29/03 | pjb |
| | Famphur, Solid* | ND | 73 | ug/Kg | 05/29/03 | pjb |

* In Description = Dry Wgt.

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| LABORATORY TEST RESULTS | | | | | | |
|--|-------------------------------------|-----------------------|---|----------------------|------------------|------|
| Job Number: 217626 | | | | | Date: 05/30/2003 | |
| CUSTOMER: Severn Trent Laboratories | | PROJECT: 2003-05-0529 | | ATTN: Surinder Sidhu | | |
| Customer Sample ID: SS-B4-1 Date Sampled.....: 05/16/2003 Time Sampled.....: 12:00 Sample Matrix.....: Soil | | | Laboratory Sample ID: 217626-8 Date Received.....: 05/21/2003 Time Received.....: 09:55 | | | |
| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | REPORTING LIMIT | UNITS | DATE | TECH |
| Method | % Solids Determination | 84.9 | 0.10 | % | 05/22/03 | pfk |
| | % Solids, Solid | 15.1 | 0.10 | % | 05/22/03 | pfk |
| 8141A | Organophosphorus Pesticide Analysis | | | | | |
| | o,o,o-TEPA, Solid* | ND | 78 | ug/Kg | 05/30/03 | pij |
| | Phorate, Solid* | ND | 78 | ug/Kg | 05/30/03 | pij |
| | Thionazin, Solid* | ND | 78 | ug/Kg | 05/30/03 | pij |
| | Disulfoton, Solid* | ND | 78 | ug/Kg | 05/30/03 | pij |
| | Sulfotep, Solid* | ND | 78 | ug/Kg | 05/30/03 | pij |
| | Dimethoate, Solid* | ND | 78 | ug/Kg | 05/30/03 | pij |
| | Methyl parathion, Solid* | ND | 78 | ug/Kg | 05/30/03 | pij |
| | Parathion, Solid* | ND | 78 | ug/Kg | 05/30/03 | pij |
| | Famphur, Solid* | ND | 78 | ug/Kg | 05/30/03 | pij |

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 217626

Date: 05/30/2003

CUSTOMER: Severn Trent Laboratories

PROJECT: 2003-05-0529

ATTN: Surinder Sidhu

Customer Sample ID: SS-C1-1
 Date Sampled.....: 05/16/2003
 Time Sampled.....: 12:00
 Sample Matrix.....: Soil

Laboratory Sample ID: 217626-9
 Date Received.....: 05/21/2003
 Time Received.....: 09:55

| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | REPORTING LIMIT | UNITS | DATE | TECH |
|-------------|-------------------------------------|---------------|-----------------|-------|----------|------|
| Method | % Solids Determination | 89.0 | 0.10 | % | 05/22/03 | pfk |
| | % Solids, Solid | 11.0 | 0.10 | % | 05/22/03 | pfk |
| 8141A | Organophosphorus Pesticide Analysis | | | | | |
| | o,o,o-TEPA, Solid* | ND | 75 | ug/Kg | 05/30/03 | pjg |
| | Phorate, Solid* | ND | 75 | ug/Kg | 05/30/03 | pjg |
| | Thionazin, Solid* | ND | 75 | ug/Kg | 05/30/03 | pjg |
| | Disulfoton, Solid* | ND | 75 | ug/Kg | 05/30/03 | pjg |
| | Sulfotep, Solid* | ND | 75 | ug/Kg | 05/30/03 | pjg |
| | Dimethoate, Solid* | ND | 75 | ug/Kg | 05/30/03 | pjg |
| | Methyl parathion, Solid* | ND | 75 | ug/Kg | 05/30/03 | pjg |
| | Parathion, Solid* | ND | 75 | ug/Kg | 05/30/03 | pjg |
| | Fenphur, Solid* | ND | 75 | ug/Kg | 05/30/03 | pjg |

* In Description = Dry Wgt.

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| LABORATORY TEST RESULTS | | | | | | |
|--|-------------------------------------|-----------------------|--|----------------------|----------|------|
| Job Number: 217626 | | | Date: 05/30/2003 | | | |
| CUSTOMER: Severn Trent Laboratories | | PROJECT: 2003-05-0529 | | ATTN: Surinder Sidhu | | |
| Customer Sample ID: SS-C2-1 Date Sampled.....: 05/16/2003 Time Sampled.....: 12:00 Sample Matrix.....: Soil | | | Laboratory Sample ID: 217626-10 Date Received.....: 05/21/2003 Time Received.....: 09:55 | | | |
| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | REPORTING LIMIT | UNITS | DATE | TECH |
| Method | % Solids Determination | 85.6 | 0.10 | % | 05/22/03 | pfk |
| | % Solids, Solid | 14.4 | 0.10 | % | 05/22/03 | pfk |
| 8141A | Organophosphorus Pesticide Analysis | | | | | |
| | o,o,o-TEPA, Solid* | ND | 76 | ug/Kg | 05/30/03 | pij |
| | Phorate, Solid* | ND | 76 | ug/Kg | 05/30/03 | pij |
| | Thionazin, Solid* | ND | 76 | ug/Kg | 05/30/03 | pij |
| | Disulfoton, Solid* | ND | 76 | ug/Kg | 05/30/03 | pij |
| | Sulfotep, Solid* | ND | 76 | ug/Kg | 05/30/03 | pij |
| | Dimethoate, Solid* | ND | 76 | ug/Kg | 05/30/03 | pij |
| | Methyl parathion, Solid* | ND | 76 | ug/Kg | 05/30/03 | pij |
| | Parathion, Solid* | ND | 76 | ug/Kg | 05/30/03 | pij |
| | Famphur, Solid* | ND | 76 | ug/Kg | 05/30/03 | pij |

* In Description = Dry Wgt.

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| Job Number: 217626 | | LABORATORY TEST RESULTS | | | Date: 05/30/2003 | |
|--|-------------------------------------|--|-----------------|----------------------|------------------|------|
| CUSTOMER: Severn Trent Laboratories | | PROJECT: 2003-05-0529 | | ATTN: Surinder Sidhu | | |
| Customer Sample ID: SS-C3-1 Date Sampled.....: 05/16/2003 Time Sampled.....: 12:00 Sample Matrix.....: Soil | | Laboratory Sample ID: 217626-11 Date Received.....: 05/21/2003 Time Received.....: 09:55 | | | | |
| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | REPORTING LIMIT | UNITS | DATE | TECH |
| Method | % Solids Determination | 85.8 | 0.10 | % | 05/22/03 | pfk |
| | % Solids, Solid | 14.2 | 0.10 | % | 05/22/03 | pfk |
| 8141A | Organophosphorus Pesticide Analysis | | | | | |
| | o,p,o-TEPA, Solid* | ND | 77 | ug/Kg | 05/30/03 | pja |
| | Phorate, Solid* | ND | 77 | ug/Kg | 05/30/03 | pja |
| | Thionazin, Solid* | ND | 77 | ug/Kg | 05/30/03 | pja |
| | Disulfoton, Solid* | ND | 77 | ug/Kg | 05/30/03 | pja |
| | Sulfotep, Solid* | ND | 77 | ug/Kg | 05/30/03 | pja |
| | Dimethoate, Solid* | ND | 77 | ug/Kg | 05/30/03 | pja |
| | Methyl parathion, Solid* | ND | 77 | ug/Kg | 05/30/03 | pja |
| | Parathion, Solid* | ND | 77 | ug/Kg | 05/30/03 | pja |
| Famphur, Solid* | ND | 77 | ug/Kg | 05/30/03 | pja | |

* In Description = Dry Wgt.

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| TEST METHOD | | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | REPORTING LIMIT | UNITS | DATE | TECH |
|-------------|--|-------------------------------------|---------------|-----------------|-------|----------|------|
| Method | | % Solids Determination | 87.3 | 0.10 | % | 05/22/03 | pfk |
| | | % Solids, Solid | 12.7 | 0.10 | % | 05/22/03 | pfk |
| 8141A | | Organophosphorus Pesticide Analysis | | | | | |
| | | o,o,o-TEPA, Solid* | ND | 76 | ug/Kg | 05/30/03 | pij |
| | | Phorate, Solid* | ND | 76 | ug/Kg | 05/30/03 | pij |
| | | Thionazin, Solid* | ND | 76 | ug/Kg | 05/30/03 | pij |
| | | Disulfoton, Solid* | ND | 76 | ug/Kg | 05/30/03 | pij |
| | | Sulfotep, Solid* | ND | 76 | ug/Kg | 05/30/03 | pij |
| | | Dimethoate, Solid* | ND | 76 | ug/Kg | 05/30/03 | pij |
| | | Methyl parathion, Solid* | ND | 76 | ug/Kg | 05/30/03 | pij |
| | | Parathion, Solid* | ND | 76 | ug/Kg | 05/30/03 | pij |
| | | Famphur, Solid* | ND | 76 | ug/Kg | 05/30/03 | pij |

* In Description = Dry Wgt.

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| LABORATORY TEST RESULTS | | | | | | |
|--|-------------------------------------|-----------------------|--|----------------------|------------------|------|
| Job Number: 217626 | | | | | Date: 06/04/2003 | |
| CUSTOMER: Severn Trent Laboratories | | PROJECT: 2003-05-0529 | | ATTN: Surinder Sidhu | | |
| Customer Sample ID: SS-D1-1 Date Sampled.....: 05/16/2003 Time Sampled.....: 12:00 Sample Matrix.....: Soil | | | Laboratory Sample ID: 217626-13 Date Received.....: 05/21/2003 Time Received.....: 09:55 | | | |
| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | REPORTING LIMIT | UNITS | DATE | TECH |
| Method | % Solids Determination | 85.6 | 0.10 | % | 05/22/03 | pfk |
| | % Solids, Solid | 14.4 | 0.10 | % | 05/22/03 | pfk |
| B141A | Organophosphorus Pesticide Analysis | | | | | |
| | o,o,o-TEPA, Solid* | ND | ?? | ug/Kg | 05/30/03 | pjg |
| | Phorate, Solid* | ND | ?? | ug/Kg | 05/30/03 | pjg |
| | Thionazin, Solid* | ND | ?? | ug/Kg | 05/30/03 | pjg |
| | Disulfoton, Solid* | ND | ?? | ug/Kg | 05/30/03 | pjg |
| | Sulfotep, Solid* | ND | ?? | ug/Kg | 05/30/03 | pjg |
| | Dimethoate, Solid* | ND | ?? | ug/Kg | 05/30/03 | pjg |
| | Methyl parathion, Solid* | ND | ?? | ug/Kg | 05/30/03 | pjg |
| | Parathion, Solid* | ND | ?? | ug/Kg | 05/30/03 | pjg |
| | Famphur, Solid* | ND | ?? | ug/Kg | 05/30/03 | pjg |

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 217626

Date: 05/30/2003

CUSTOMER: Severn Trent Laboratories

PROJECT: 2003-05-0529

ATTN: Surinder Sidhu

Customer Sample ID: SS-D2-1
 Date Sampled.....: 05/16/2003
 Time Sampled.....: 12:00
 Sample Matrix.....: Soil

Laboratory Sample ID: 217626-14
 Date Received.....: 05/21/2003
 Time Received.....: 09:55

| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | REPORTING LIMIT | UNITS | DATE | TECH |
|-------------|-------------------------------------|---------------|-----------------|-------|----------|------|
| Method | % Solids Determination | 87.3 | 0.10 | % | 05/22/03 | pfk |
| | % Solids, Solid | 12.7 | 0.10 | % | 05/22/03 | pfk |
| 8141A | Organophosphorus Pesticide Analysis | | | | | |
| | o,o,o-TEPA, Solid* | ND | 76 | ug/Kg | 05/30/03 | pjg |
| | Phorate, Solid* | ND | 76 | ug/Kg | 05/30/03 | pjg |
| | Thionazin, Solid* | ND | 76 | ug/Kg | 05/30/03 | pjg |
| | Disulfoton, Solid* | ND | 76 | ug/Kg | 05/30/03 | pjg |
| | Sulfotep, Solid* | ND | 76 | ug/Kg | 05/30/03 | pjg |
| | Dimethoate, Solid* | ND | 76 | ug/Kg | 05/30/03 | pjg |
| | Methyl parathion, Solid* | ND | 76 | ug/Kg | 05/30/03 | pjg |
| | Parathion, Solid* | ND | 76 | ug/Kg | 05/30/03 | pjg |
| | Famphur, Solid* | ND | 76 | ug/Kg | 05/30/03 | pjg |

* In Description = Dry Wgt.

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| LABORATORY TEST RESULTS | | | | | | |
|-------------------------------------|-------------------------------------|---------------------------------|-----------------|----------------------|------------------|------|
| Job Number: 217626 | | | | | Date: 05/30/2003 | |
| CUSTOMER: Severn Trent Laboratories | | PROJECT: 2003-05-0529 | | ATTN: Surinder Sidhu | | |
| Customer Sample ID: SS-03-1 | | Laboratory Sample ID: 217626-15 | | | | |
| Date Sampled.....: 05/16/2003 | | Date Received.....: 05/21/2003 | | | | |
| Time Sampled.....: 12:00 | | Time Received.....: 09:55 | | | | |
| Sample Matrix.....: Soil | | | | | | |
| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | REPORTING LIMIT | UNITS | DATE | TECH |
| Method | % Solids Determination | 84.5 | 0.10 | % | 05/22/03 | pfk |
| | % Solids, Solid | | | | | |
| | % Moisture, Solid | 15.5 | 0.10 | % | 05/22/03 | pfk |
| 8141A | Organophosphorus Pesticide Analysis | | | | | |
| | o,o,o-TEPA, Solid* | ND | 78 | ug/Kg | 05/30/03 | pjg |
| | Phorate, Solid* | ND | 78 | ug/Kg | 05/30/03 | pjg |
| | Thionazin, Solid* | ND | 78 | ug/Kg | 05/30/03 | pjg |
| | Disulfoton, Solid* | ND | 78 | ug/Kg | 05/30/03 | pjg |
| | Sulfotep, Solid* | ND | 78 | ug/Kg | 05/30/03 | pjg |
| | Dimethoate, Solid* | ND | 78 | ug/Kg | 05/30/03 | pjg |
| | Methyl parathion, Solid* | ND | 78 | ug/Kg | 05/30/03 | pjg |
| | Parathion, Solid* | ND | 78 | ug/Kg | 05/30/03 | pjg |
| | Famphur, Solid* | ND | 78 | ug/Kg | 05/30/03 | pjg |

* In Description = Dry Wgt.

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| LABORATORY TEST RESULTS | | | | | | |
|--|-------------------------------------|-----------------------|--|----------------------|----------|------|
| Job Number: 217626 | | | Date: 05/30/2003 | | | |
| CUSTOMER: Severn Trent Laboratories | | PROJECT: 2003-05-0529 | | ATTN: Surinder Sidhu | | |
| Customer Sample ID: SS-D4-1 Date Sampled.....: 05/16/2003 Time Sampled.....: 12:00 Sample Matrix.....: Soil | | | Laboratory Sample ID: 217626-16 Date Received.....: 05/21/2003 Time Received.....: 09:55 | | | |
| TEST METHOD | PARAMETER/TEST DESCRIPTION | SAMPLE RESULT | REPORTING LIMIT | UNITS | DATE | TECH |
| Method | % Solids Determination | 85.8 | 0.10 | % | 05/22/03 | pfk |
| | % Solids, Solid | | | | | |
| | % Moisture, Solid | 14.2 | 0.10 | % | 05/22/03 | pfk |
| 8141A | Organophosphorus Pesticide Analysis | | | | | |
| | o,o,o-TEPA, Solid* | ND | 78 | ug/Kg | 05/30/03 | pjg |
| | Phorate, Solid* | ND | 78 | ug/Kg | 05/30/03 | pjg |
| | Thionazin, Solid* | ND | 78 | ug/Kg | 05/30/03 | pjg |
| | Disulfoton, Solid* | ND | 78 | ug/Kg | 05/30/03 | pjg |
| | Sulfotep, Solid* | ND | 78 | ug/Kg | 05/30/03 | pjg |
| | Dimethoate, Solid* | ND | 78 | ug/Kg | 05/30/03 | pjg |
| | Methyl parathion, Solid* | ND | 78 | ug/Kg | 05/30/03 | pjg |
| | Parathion, Solid* | ND | 78 | ug/Kg | 05/30/03 | pjg |
| | Famphur, Solid* | ND | 78 | ug/Kg | 05/30/03 | pjg |

* In Description = Dry Wgt.

| Job Number: 217626 | | LABORATORY CHRONICLE | | | | Date: 05/30/2003 |
|-------------------------------------|-------------------------------------|------------------------|-------------------------|----------------------|------|-------------------------|
| CUSTOMER: Severn Trent Laboratories | | PROJECT: 2003-05-0529 | | ATTN: Surinder Sidhu | | |
| Lab ID: 217626-1 | Client ID: SS-A1-1 | Date Recvd: 05/21/2003 | Sample Date: 05/16/2003 | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT | #(S) | DATE/TIME ANALYZED |
| Method | % Solids Determination | 1 | 84590 | | | 05/22/2003 1410 |
| 3550B | Extraction Ultrasonic (Pest.Phos.) | 1 | 85158 | | | 05/28/2003 1545 |
| 8141A | Organophosphorus Pesticide Analysis | 1 | 85443 | 85158 | | 05/29/2003 2044 1.00000 |
| Lab ID: 217626-2 | Client ID: SS-A2-1 | Date Recvd: 05/21/2003 | Sample Date: 05/16/2003 | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT | #(S) | DATE/TIME ANALYZED |
| Method | % Solids Determination | 1 | 84590 | | | 05/22/2003 1410 |
| 3550B | Extraction Ultrasonic (Pest.Phos.) | 1 | 85158 | | | 05/28/2003 1545 |
| 8141A | Organophosphorus Pesticide Analysis | 1 | 85443 | 85158 | | 05/29/2003 2109 1.00000 |
| Lab ID: 217626-3 | Client ID: SS-A3-1 | Date Recvd: 05/21/2003 | Sample Date: 05/16/2003 | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT | #(S) | DATE/TIME ANALYZED |
| Method | % Solids Determination | 1 | 84590 | | | 05/22/2003 1410 |
| 3550B | Extraction Ultrasonic (Pest.Phos.) | 1 | 85158 | | | 05/28/2003 1545 |
| 8141A | Organophosphorus Pesticide Analysis | 1 | 85443 | 85158 | | 05/29/2003 2135 1.00000 |
| Lab ID: 217626-4 | Client ID: SS-A4-1 | Date Recvd: 05/21/2003 | Sample Date: 05/16/2003 | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT | #(S) | DATE/TIME ANALYZED |
| Method | % Solids Determination | 1 | 84590 | | | 05/22/2003 1410 |
| 3550B | Extraction Ultrasonic (Pest.Phos.) | 1 | 85158 | | | 05/28/2003 1545 |
| 8141A | Organophosphorus Pesticide Analysis | 1 | 85443 | 85158 | | 05/29/2003 2200 1.00000 |
| Lab ID: 217626-5 | Client ID: SS-B1-1 | Date Recvd: 05/21/2003 | Sample Date: 05/16/2003 | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT | #(S) | DATE/TIME ANALYZED |
| Method | % Solids Determination | 1 | 84590 | | | 05/22/2003 1410 |
| 3550B | Extraction Ultrasonic (Pest.Phos.) | 1 | 85158 | | | 05/28/2003 1545 |
| 8141A | Organophosphorus Pesticide Analysis | 1 | 85443 | 85158 | | 05/29/2003 2225 1.00000 |
| Lab ID: 217626-6 | Client ID: SS-B2-1 | Date Recvd: 05/21/2003 | Sample Date: 05/16/2003 | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT | #(S) | DATE/TIME ANALYZED |
| Method | % Solids Determination | 1 | 84590 | | | 05/22/2003 1410 |
| 3550B | Extraction Ultrasonic (Pest.Phos.) | 1 | 85158 | | | 05/28/2003 1545 |
| 8141A | Organophosphorus Pesticide Analysis | 1 | 85443 | 85158 | | 05/29/2003 2250 1.00000 |
| Lab ID: 217626-7 | Client ID: SS-B3-1 | Date Recvd: 05/21/2003 | Sample Date: 05/16/2003 | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT | #(S) | DATE/TIME ANALYZED |
| Method | % Solids Determination | 1 | 84590 | | | 05/22/2003 1410 |
| 3550B | Extraction Ultrasonic (Pest.Phos.) | 1 | 85158 | | | 05/28/2003 1545 |
| 8141A | Organophosphorus Pesticide Analysis | 1 | 85443 | 85158 | | 05/29/2003 2316 1.00000 |
| Lab ID: 217626-8 | Client ID: SS-B4-1 | Date Recvd: 05/21/2003 | Sample Date: 05/16/2003 | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT | #(S) | DATE/TIME ANALYZED |
| Method | % Solids Determination | 1 | 84590 | | | 05/22/2003 1410 |
| 3550B | Extraction Ultrasonic (Pest.Phos.) | 1 | 85158 | | | 05/28/2003 1545 |
| 8141A | Organophosphorus Pesticide Analysis | 1 | 85443 | 85158 | | 05/30/2003 0006 1.00000 |
| Lab ID: 217626-9 | Client ID: SS-C1-1 | Date Recvd: 05/21/2003 | Sample Date: 05/16/2003 | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT | #(S) | DATE/TIME ANALYZED |
| Method | % Solids Determination | 1 | 84590 | | | 05/22/2003 1410 |
| 3550B | Extraction Ultrasonic (Pest.Phos.) | 1 | 85158 | | | 05/28/2003 1545 |
| 8141A | Organophosphorus Pesticide Analysis | 1 | 85443 | 85158 | | 05/30/2003 0031 1.00000 |
| Lab ID: 217626-10 | Client ID: SS-C2-1 | Date Recvd: 05/21/2003 | Sample Date: 05/16/2003 | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT | #(S) | DATE/TIME ANALYZED |
| Method | % Solids Determination | 1 | 84590 | | | 05/22/2003 1410 |

| Job Number: 217626 | | LABORATORY CHRONICLE | | | Date: 05/30/2003 | | |
|-------------------------------------|-------------------------------------|------------------------|-------------------------|---------|----------------------|--------------------|----------|
| CUSTOMER: Severn Trent Laboratories | | PROJECT: 2003-05-0529 | | | ATTN: Surinder Sidhu | | |
| Lab ID: 217626-10 | Client ID: SS-C2-1 | Date Recvd: 05/21/2003 | Sample Date: 05/16/2003 | | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT | #(S) | DATE/TIME ANALYZED | DILUTION |
| 3550B | Extraction Ultrasonic (Pest.Phos.) | 1 | 85158 | | | 05/28/2003 1545 | |
| 8141A | Organophosphorus Pesticide Analysis | 1 | 85443 | 85158 | | 05/30/2003 0057 | 1.00000 |
| Lab ID: 217626-11 | Client ID: SS-C3-1 | Date Recvd: 05/21/2003 | Sample Date: 05/16/2003 | | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT | #(S) | DATE/TIME ANALYZED | DILUTION |
| Method | % Solids Determination | 1 | 84590 | | | 05/22/2003 1410 | |
| 3550B | Extraction Ultrasonic (Pest.Phos.) | 1 | 85158 | | | 05/28/2003 1545 | |
| 8141A | Organophosphorus Pesticide Analysis | 1 | 85443 | 85158 | | 05/30/2003 0122 | 1.00000 |
| Lab ID: 217626-12 | Client ID: SS-C4-1 | Date Recvd: 05/21/2003 | Sample Date: 05/16/2003 | | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT | #(S) | DATE/TIME ANALYZED | DILUTION |
| Method | % Solids Determination | 1 | 84590 | | | 05/22/2003 1410 | |
| 3550B | Extraction Ultrasonic (Pest.Phos.) | 1 | 85158 | | | 05/28/2003 1545 | |
| 8141A | Organophosphorus Pesticide Analysis | 1 | 85443 | 85158 | | 05/30/2003 0147 | 1.00000 |
| Lab ID: 217626-13 | Client ID: SS-D1-1 | Date Recvd: 05/21/2003 | Sample Date: 05/16/2003 | | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT | #(S) | DATE/TIME ANALYZED | DILUTION |
| Method | % Solids Determination | 1 | 84590 | | | 05/22/2003 1410 | |
| 3550B | Extraction Ultrasonic (Pest.Phos.) | 1 | 85158 | | | 05/28/2003 1545 | |
| 8141A | Organophosphorus Pesticide Analysis | 1 | 85443 | 85158 | | 05/30/2003 0212 | 1.00000 |
| Lab ID: 217626-14 | Client ID: SS-D2-1 | Date Recvd: 05/21/2003 | Sample Date: 05/16/2003 | | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT | #(S) | DATE/TIME ANALYZED | DILUTION |
| Method | % Solids Determination | 1 | 84590 | | | 05/22/2003 1410 | |
| 3550B | Extraction Ultrasonic (Pest.Phos.) | 1 | 85158 | | | 05/28/2003 1545 | |
| 8141A | Organophosphorus Pesticide Analysis | 1 | 85443 | 85158 | | 05/30/2003 0238 | 1.00000 |
| Lab ID: 217626-15 | Client ID: SS-D3-1 | Date Recvd: 05/21/2003 | Sample Date: 05/16/2003 | | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT | #(S) | DATE/TIME ANALYZED | DILUTION |
| Method | % Solids Determination | 1 | 84590 | | | 05/22/2003 1410 | |
| 3550B | Extraction Ultrasonic (Pest.Phos.) | 1 | 85158 | | | 05/28/2003 1545 | |
| 8141A | Organophosphorus Pesticide Analysis | 1 | 85443 | 85158 | | 05/30/2003 0303 | 1.00000 |
| Lab ID: 217626-16 | Client ID: SS-D4-1 | Date Recvd: 05/21/2003 | Sample Date: 05/16/2003 | | | | |
| METHOD | DESCRIPTION | RUN# | BATCH# | PREP BT | #(S) | DATE/TIME ANALYZED | DILUTION |
| Method | % Solids Determination | 1 | 84590 | | | 05/22/2003 1410 | |
| 3550B | Extraction Ultrasonic (Pest.Phos.) | 1 | 85158 | | | 05/28/2003 1545 | |
| 8141A | Organophosphorus Pesticide Analysis | 1 | 85443 | 85158 | | 05/30/2003 0328 | 1.00000 |

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| | | |
|--------------------------------------|------------------------------------|--------------------------|
| Job Number.: 217626 | SURROGATE RECOVERIES REPORT | Report Date.: 05/30/2003 |
| CUSTOMER: Severn Trent Laboratories. | PROJECT: 2003-05-0529 | ATTN: Surinder Sidhu |

| | | |
|---|--|----------------------|
| Method.....: Organophosphorus Pesticide Analysis Method Code....: 8141 | Test Matrix...: Solid Batch(#):.....: 85443 | Prep Batch...: 85158 |
|---|--|----------------------|

| Lab ID | DT | Sample ID | Date | TBPHOS | TPHPHO |
|------------|----|-----------|------------|--------|--------|
| LCD | | | 05/29/2003 | 88 | 101 |
| LCS | | | 05/29/2003 | 89 | 95 |
| MB | | | 05/29/2003 | 80 | 99 |
| 217626- 1 | | SS-A1-1 | 05/29/2003 | 76 | 94 |
| 217626- 2 | | SS-A2-1 | 05/29/2003 | 78 | 87 |
| 217626- 3 | | SS-A3-1 | 05/29/2003 | 83 | 91 |
| 217626- 4 | | SS-A4-1 | 05/29/2003 | 85 | 93 |
| 217626- 5 | | SS-B1-1 | 05/29/2003 | 87 | 94 |
| 217626- 6 | | SS-B2-1 | 05/29/2003 | 85 | 91 |
| 217626- 7 | | SS-B3-1 | 05/29/2003 | 86 | 85 |
| 217626- 8 | | SS-B4-1 | 05/30/2003 | 86 | 92 |
| 217626- 9 | | SS-C1-1 | 05/30/2003 | 82 | 69 |
| 217626- 10 | | SS-C2-1 | 05/30/2003 | 33* | 34 |
| 217626- 11 | | SS-C3-1 | 05/30/2003 | 95 | 52 |
| 217626- 12 | | SS-C4-1 | 05/30/2003 | 91 | 61 |
| 217626- 13 | | SS-D1-1 | 05/30/2003 | 86 | 88 |
| 217626- 14 | | SS-D2-1 | 05/30/2003 | 83 | 87 |
| 217626- 15 | | SS-D3-1 | 05/30/2003 | 87 | 61 |
| 217626- 16 | | SS-D4-1 | 05/30/2003 | 100 | 62 |

| Test | Test Description | Limits |
|--------|--------------------|----------|
| TBPHOS | Tributylphosphate | 47 - 123 |
| TPHPHO | Triphenylphosphate | 20 - 115 |

Job Number.: 217626 QUALITY CONTROL RESULTS Report Date.: 05/30/2003

CUSTOMER: Severn Trent Laboratories PROJECT: 2003-05-0529 ATTN: Surinder Sidhu

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---------|-------------|------------|--------|-----------------|------|------|
|---------|-------------|------------|--------|-----------------|------|------|

Test Method.....: 8141A Equipment Code.....: INST1920 Analyst....: pig
 Method Description.: Organophosphorus Pesticide Analysis Batch.....: 85443

| | | | | | | |
|-----|-------------------------------------|------------|------------|--|------------|------|
| LCD | Laboratory Control Sample Duplicate | 0030WLPPQA | 85158 -003 | | 05/29/2003 | 2019 |
|-----|-------------------------------------|------------|------------|--|------------|------|

| Parameter/Test Description | Units | QC Result | QC Result | True Value | Orig. Value | QC Calc. | * Limits | F |
|----------------------------|-------|-----------|-----------|------------|-------------|-----------|------------------|---|
| o,o,o-TEPA, Solid | ug/Kg | 638.846 | 667.766 | 667.700 | 2.000 | U 96 4 | X 64-109 R 30 | |
| Phorate, Solid | ug/Kg | 621.626 | 646.779 | 668.800 | 2.000 | U 93 4 | X 58-106 R 30 | |
| Thionazin, Solid | ug/Kg | 603.296 | 634.296 | 668.000 | 2.000 | U 90 5 | X 72-113 R 30 | |
| Disulfoton, Solid | ug/Kg | 565.629 | 590.359 | 668.100 | 2.000 | U 85 4 | X 20-133 R 30 | |
| Sulfotep, Solid | ug/Kg | 641.573 | 671.029 | 668.800 | 2.000 | U 96 4 | X 70-123 R 30 | |
| Dimethoate, Solid | ug/Kg | 506.589 | 481.610 | 669.300 | 2.000 | U 76 5 | X 57-118 R 30 | |
| Methyl parathion, Solid | ug/Kg | 659.669 | 672.469 | 668.100 | 2.000 | U 99 2 | X 64-113 R 30 | |
| Parathion, Solid | ug/Kg | 641.996 | 635.633 | 668.900 | 2.000 | U 96 1 | X 67-111 R 30 | |
| Famphur, Solid | ug/Kg | 644.223 | 607.413 | 668.000 | 2.000 | U 96 6 | X 63-109 R 30 | |

QUALITY CONTROL RESULTS

Job Number.: 217626

Report Date.: 05/30/2003

CUSTOMER: Severn Trent Laboratories

PROJECT: 2003-05-0529

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---------|-------------|------------|--------|-----------------|------|------|
|---------|-------------|------------|--------|-----------------|------|------|

Test Method.....: 8141A

Equipment Code....: INST1920

Analyst....: pjg

Method Description.: Organophosphorus Pesticide Analysis

Batch.....: 85443

| | | | | | | |
|-----|---------------------------|------------|------------|--|------------|------|
| LCS | Laboratory Control Sample | 003DWLPPDA | 85158 -002 | | 05/29/2003 | 1954 |
|-----|---------------------------|------------|------------|--|------------|------|

| Parameter/Test Description | Units | QC Result | QC Result | True Value | Orig. Value | QC Calc. | * | Limits | F |
|----------------------------|-------|-----------|-----------|------------|-------------|----------|---|--------|---|
| o,o,o-TEPA, Solid | ug/Kg | 667.766 | | 667.700 | 2.000 | U 100 | % | 64-109 | |
| Phorate, Solid | ug/Kg | 646.779 | | 668.800 | 2.000 | U 97 | X | 58-106 | |
| Thionazin, Solid | ug/Kg | 634.296 | | 668.000 | 2.000 | U 95 | X | 72-113 | |
| Disulfoton, Solid | ug/Kg | 590.359 | | 668.100 | 2.000 | U 88 | X | 20-133 | |
| Sulfotep, Solid | ug/Kg | 671.029 | | 668.800 | 2.000 | U 100 | X | 70-123 | |
| Dimethoate, Solid | ug/Kg | 481.610 | | 669.300 | 2.000 | U 72 | X | 57-118 | |
| Methyl parathion, Solid | ug/Kg | 672.469 | | 668.100 | 2.000 | U 101 | X | 64-113 | |
| Parathion, Solid | ug/Kg | 635.633 | | 668.900 | 2.000 | U 95 | X | 67-111 | |
| Famphur, Solid | ug/Kg | 607.413 | | 668.000 | 2.000 | U 91 | X | 63-109 | |

Job Number.: 217626

QUALITY CONTROL RESULTS

Report Date.: 05/30/2003

CUSTOMER: Severn Trent Laboratories

PROJECT: 2003-05-0529

ATTN:

| QC Type | Description | Reag. Code | Lab ID | Dilution Factor | Date | Time |
|---------|-------------|------------|--------|-----------------|------|------|
|---------|-------------|------------|--------|-----------------|------|------|

Test Method.....: B141A

Equipment Code....: INST1920

Analyst...: pjg

Method Description.: Organophosphorus Pesticide Analysis

Batch.....: 85443

| | | | | | | |
|----|--------------|--|-----------|--|------------|------|
| NB | Method Blank | | 85158-001 | | 05/29/2003 | 1920 |
|----|--------------|--|-----------|--|------------|------|

| Parameter/Test Description | Units | QC Result | QC Result | True Value | Orig. Value | QC Calc. | * Limits | F |
|----------------------------|-------|-----------|-----------|------------|-------------|----------|----------|---|
| o,o,o-TEPA, Solid | ug/Kg | 2.000 | U | | | | | |
| Phorate, Solid | ug/Kg | 2.000 | U | | | | | |
| Thionazin, Solid | ug/Kg | 2.000 | U | | | | | |
| Disulfoton, Solid | ug/Kg | 2.000 | U | | | | | |
| Sulfotep, Solid | ug/Kg | 2.000 | U | | | | | |
| Dimethoate, Solid | ug/Kg | 2.000 | U | | | | | |
| Methyl parathion, Solid | ug/Kg | 2.000 | U | | | | | |
| Parathion, Solid | ug/Kg | 2.000 | U | | | | | |
| Famphur, Solid | ug/Kg | 2.000 | U | | | | | |

Job Number.: 217626

QUALITY CONTROL RESULTS

Report Date.: 05/30/2003

CUSTOMER: Severn Trent Laboratories

PROJECT: 2003-05-0529

ATTN: Surinder Sidhu

Test Method..... Method

Batch.....: 84590

Analyst...: pfk

Method Description.: % Solids Determination

Equipment Code.....

Test Code.: XSOLID

Parameter.....: % Solids

| QC | Lab ID | Reagent | Units | QC Result | QC Result | True Value | Orig. Value | QC Calc. F | * Limits | Date | Time |
|----|-----------|---------|-------|-----------|-----------|------------|-------------|------------|----------|------------|------|
| MB | 84590-001 | | % | | 0.1000 | U | | | | 05/22/2003 | 1410 |

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/30/2003

REPORT COMMENTS

- 1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
- 2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
- 3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
- 4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
- 5) Arizona Environmental Laboratory License number A20603.
- 6) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

- U Analyte was not detected at or above the stated limit.
- < Not detected at or above the reporting limit.
- J Result is less than the RL, but greater than or equal to the method detection limit.
- B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
- S Result was determined by the Method of Standard Additions.
- F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

- ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
- * LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
- + MSA correlation coefficient is less than 0.995.
- 4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
- E SD: Serial dilution exceeds the control limits.
- H MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
- N MS, MSD: Spike recovery exceeds the upper or lower control limits.
- W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

- U Analyte was not detected at or above the stated limit.
- ND Compound not detected.
- J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
- Q Result was qualitatively confirmed, but not quantified.
- C Pesticide identification was confirmed by GC/MS.
- Y The chromatographic response resembles a typical fuel pattern.
- Z The chromatographic response does not resemble a typical fuel pattern.
- E Result exceeded calibration range, secondary dilution required.
- F AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

- B MB: Batch QC is greater than reporting limit.
- * LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
- EB1, EB2, EB3, MLE: Batch QC is greater than reporting limit
- A Concentration exceeds the instrument calibration range
- a Concentration is below the method Reporting Limit (RL)
- B Compound was found in the blank and sample.
- D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
- H Alternate peak selection upon analytical review
- I Indicates the presence of an interference, recovery is not calculated.
- M Manually integrated compound.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/30/2003

P The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%.

Abbreviations

AS Post Digestion Spike (GFAA Samples - See Note 1 below)
 Batch Designation given to identify a specific extraction, digestion, preparation set, or analysis set
 CAP Capillary Column CCB Continuing Calibration Blank
 CCV Continuing Calibration Verification
 CF Confirmation analysis of original
 C1 Confirmation analysis of A1 or D1
 C2 Confirmation analysis of A2 or D2
 C3 Confirmation analysis of A3 or D3
 CRA Low Level Standard Check - GFAA; Mercury
 CR1 Low Level Standard Check - ICP
 CV Calibration Verification Standard
 Dil Fac Dilution Factor - Secondary dilution analysis
 D1 Dilution 1
 D2 Dilution 2
 D3 Dilution 3
 DLFac Detection Limit Factor
 DSH Distilled Standard - High Level
 DSL Distilled Standard - Low Level
 DSM Distilled Standard - Medium Level
 EB1 Extraction Blank 1
 EB2 Extraction Blank 2
 EB3 DI Blank
 ELC Method Extracted LCS
 ELD Method Extracted LCD
 ICAL Initial calibration
 ICB Initial Calibration Blank
 ICV Initial Calibration Verification
 IDL Instrument Detection Limit
 ISA Interference Check Sample A - ICAP
 ISB Interference Check Sample B - ICAP
 Job No. The first six digits of the sample ID which refers to a specific client, project and sample group
 Lab ID An 8 number unique laboratory identification
 LCD Laboratory Control Standard Duplicate
 LCS Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
 MB Method Blank or (PB) Preparation Blank
 MD Method Duplicate
 MDL Method Detection Limit
 MLE Medium Level Extraction Blank
 MRL Method Reporting Limit Standard
 MSA Method of Standard Additions
 MS Matrix Spike
 MSD Matrix Spike Duplicate
 ND Not Detected
 PREPF Preparation factor used by the Laboratory's Information Management System (LIMS)
 PDS Post Digestion Spike (ICAP)
 RA Re-analysis of original
 A1 Re-analysis of D1
 A2 Re-analysis of D2
 A3 Re-analysis of D3
 RD Re-extraction of dilution
 RE Re-extraction of original
 RC Re-extraction Confirmation
 RL Reporting Limit
 RPD Relative Percent Difference of duplicate (unrounded) analyses
 RRF Relative Response Factor

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/30/2003

RT Retention Time
RTW Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number
SCB Seeded Control Blank
SD Serial Dilution (Calculated when sample concentration exceeds 50 times the MDL)
UCB Unseeded Control Blank
SSV Second Source Verification Standard
SLCS Solid Laboratory Control Standard(LCS)
PHC pH Calibration Check LCSP pH Laboratory Control Sample
LCDP pH Laboratory Control Sample Duplicate
MDPH pH Sample Duplicate
MDFP Flashpoint Sample Duplicate
LCFP Flashpoint LCS
G1 Gelex Check Standard Range 0-1
G2 Gelex Check Standard Range 1-10
G3 Gelex Check Standard Range 10-100
G4 Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCS S=LCS Post Spike (GFAA); NSS=MS Post Spike (GFAA)

Note 2: The MD calculates an absolute difference (A) when the sample concentration is less than 5 times the reporting limit. The control limit is represented as +/- the RL.

From:
STL San Francisco (CL)
 1220 Quarry Lane
 Pleasanton, CA 94566-4758

To:
 [Redacted]
 2417 Bond Street
 University Park, IL 60466

217626

Project Manager: Surinder Sidhu
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Phone: (708) 534-5200 Ext: 156
 Fax: (708) 534-5211
 Contact: Bonnie Stadelmann
 Phone: (708) 534-5200 Ext: 156

CL Submission #: **2003-05-0529**
 CL PO #:

Project #: 1109.00
 Project Name: Malabar Ave.

| Client Sample ID Analysis | CL# | Sampled | Matrix Method | TAT |
|--|-----|------------|---------------|-------|
| 1 SS-A1-1 Subcontract - 8140 Organo-Phosphorus Pesticides | 001 | 05/16/2003 | Soil 8140 | 5 Day |
| 2 SS-A2-1 Subcontract - 8140 Organo-Phosphorus Pesticides | 003 | 05/16/2003 | Soil 8140 | 5 Day |
| 3 SS-A3-1 Subcontract - 8140 Organo-Phosphorus Pesticides | 005 | 05/16/2003 | Soil 8140 | 5 Day |
| 4 SS-A4-1 Subcontract - 8140 Organo-Phosphorus Pesticides | 007 | 05/16/2003 | Soil 8140 | 5 Day |
| 5 SS-B1-1 Subcontract - 8140 Organo-Phosphorus Pesticides | 009 | 05/16/2003 | Soil 8140 | 5 Day |
| 6 SS-B2-1 Subcontract - 8140 Organo-Phosphorus Pesticides | 011 | 05/16/2003 | Soil 8140 | 5 Day |
| 7 SS-B3-1 Subcontract - 8140 Organo-Phosphorus Pesticides | 013 | 05/16/2003 | Soil 8140 | 5 Day |

| | | | | | |
|---------------------|---------|---------------------|------|---------------------|------|
| RELINQUISHED BY: 1. | | RELINQUISHED BY: 2. | | RELINQUISHED BY: 3. | |
| <i>Nounak</i> | 1245 | | | | |
| Signature | Time | Signature | Time | Signature | Time |
| <i>Nounak</i> | 5/20/03 | | | | |
| Printed Name | Date | Printed Name | Date | Printed Name | Date |
| STL - SF | | | | | |
| Company | | Company | | Company | |
| RECEIVED BY: 1. | | RECEIVED BY: 2. | | RECEIVED BY: 3. | |
| <i>[Signature]</i> | 0955 | | | | |
| Signature | Time | Signature | Time | Signature | Time |
| | 5/21/03 | | | | |
| Printed Name | Date | Printed Name | Date | Printed Name | Date |
| | | | | | |
| Company | | Company | | Company | |

From:
STL San Francisco (CL)
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 Pleasanton, CA 94566-4756

To:
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 2417 Bond Street
 University Park, IL 60466

217626

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 Phone: (708) 534-5200

Ext: 156
 Ext: 156

CL Submission #: **2003-05-0529**

Project #: 1109.00

CL PO #:

Project Name: Malabar Ave.

| Client Sample ID Analysis | CL# | Sampled | Matrix Method | TAT |
|---|-----|------------|------------------|-------|
| 8 SS-B4-1 Subcontract - 8140 Organo-Phosphorus Pesticides | 015 | 05/16/2003 | Soil 8140 | 5 Day |
| 9 SS-C1-1 Subcontract - 8140 Organo-Phosphorus Pesticides | 017 | 05/18/2003 | Soil 8140 | 5 Day |
| 10 SS-C2-1 Subcontract - 8140 Organo-Phosphorus Pesticides | 018 | 05/16/2003 | Soil 8140 | 5 Day |
| 11 SS-C3-1 Subcontract - 8140 Organo-Phosphorus Pesticides | 019 | 05/16/2003 | Soil 8140 | 5 Day |
| 12 SS-C4-1 Subcontract - 8140 Organo-Phosphorus Pesticides | 020 | 05/18/2003 | Soil 8140 | 5 Day |
| 13 SS-D1-1 Subcontract - 8140 Organo-Phosphorus Pesticides | 021 | 05/16/2003 | Soil 8140 | 5 Day |
| 14 SS-D2-1 Subcontract - 8140 Organo-Phosphorus Pesticides | 022 | 05/16/2003 | Soil 8140 | 5 Day |

| | | |
|---|--|--|
| RELINQUISHED BY: Signature: <i>Nounak</i> Printed Name: Nounak Company: STL SF | 1. RELINQUISHED BY: Signature: _____ Printed Name: _____ Company: _____ | 2. RELINQUISHED BY: Signature: _____ Printed Name: _____ Company: _____ |
| RECEIVED BY: Signature: <i>[Signature]</i> Printed Name: _____ Company: _____ | 1. RECEIVED BY: Signature: _____ Printed Name: _____ Company: _____ | 2. RECEIVED BY: Signature: _____ Printed Name: _____ Company: _____ |

From:
STL San Francisco (CL)
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Phone: (708) 534-5200 Ext: 158
 Fax: (708) 534-5211
 Contact: Bonnie Stadelmann
 Phone: (708) 534-5200 Ext: 156

CL Submission #: **2003-05-0529**

Project #: 1109.00

CL PO #:

Project Name: Malabar Ave.

| Client Sample ID | CL# | Sampled | Matrix | TAT |
|---|-----|------------|--------------|-------|
| Analysis | | | Method | |
| 15 SS-D3-1 Subcontract - 8140 Organo-Phosphorus Pesticides | 023 | 05/16/2003 | Soil 8140 | 5 Day |
| 16 SS-D4-1 Subcontract - 8140 Organo-Phosphorus Pesticides | 024 | 05/16/2003 | Soil 8140 | 5 Day |

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

| | | | | | |
|--|----|--|----|--|----|
| RELINQUISHED BY: <i>Noung K.</i> 1215 Signature Time Printed Name Date Company | 1. | RELINQUISHED BY: Signature Time Printed Name Date Company | 2. | RELINQUISHED BY: Signature Time Printed Name Date Company | 3. |
| RECEIVED BY: <i>[Signature]</i> 0955 Signature Time Printed Name Date Company | 1. | RECEIVED BY: Signature Time Printed Name Date Company | 2. | RECEIVED BY: Signature Time Printed Name Date Company | 3. |

Diesel

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Samples Reported

| Sample Name | Date Sampled | Matrix | Lab # |
|-------------|--------------|--------|-------|
| NB-1-4 | 05/16/2003 | Soil | 25 |
| NB-1-9 | 05/16/2003 | Soil | 26 |
| NB-2-4.25 | 05/16/2003 | Soil | 27 |
| NB-2-9 | 05/16/2003 | Soil | 28 |

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/27/2003 15:24

Diesel

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 3550/8015M

Sample ID: NB-1-4

Sampled: 05/16/2003

Matrix: Soil

Test(s): 8015M

Lab ID: 2003-05-0529 - 25

Extracted: 5/20/2003 16:50

QC Batch#: 2003/05/20-07.10

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|-------------------------------------|-------|--------|-------|----------|------------------|------|
| Diesel | ND | 1.0 | mg/Kg | 1.00 | 05/21/2003 10:20 | |
| Surrogates(s) o-Terphenyl | 83.3 | 60-130 | % | 1.00 | 05/21/2003 10:20 | |

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05/27/2003 15:24

Diesel

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 3550/8015M Test(s): 8015M
 Sample ID: NB-1-9 Lab ID: 2003-05-0529 - 26
 Sampled: 05/16/2003 Extracted: 5/20/2003 16:50
 Matrix: Soil QC Batch#: 2003/05/20-07.10

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|----------------------|-------|--------|-------|----------|------------------|------|
| Diesel | 2.6 | 1.0 | mg/Kg | 1.00 | 05/21/2003 11:00 | ndp |
| <i>Surrogates(s)</i> | | | | | | |
| o-Terphenyl | 82.7 | 60-130 | % | 1.00 | 05/21/2003 11:00 | |

Diesel

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue
Oakland, CA 94610
Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00
Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 3550/8015M Test(s): 8015M
Sample ID: NB-2-4.25 Lab ID: 2003-05-0529 - 27
Sampled: 05/16/2003 Extracted: 5/20/2003 16:50
Matrix: Soil QC Batch#: 2003/05/20-07.10

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|-------------------------------------|-------|--------|-------|----------|------------------|------|
| Diesel | ND | 1.0 | mg/Kg | 1.00 | 05/24/2003 01:59 | |
| <i>Surrogates(s)</i> o-Terphenyl | 84.3 | 60-130 | % | 1.00 | 05/24/2003 01:59 | |

Diesel

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 3550/8015M

Test(s): 8015M

Sample ID: NB-2-9

Lab ID: 2003-05-0529 - 28

Sampled: 05/16/2003

Extracted: 5/20/2003 16:50

Matrix: Soil

QC Batch#: 2003/05/20-07.10

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|-------------------------------------|-------|--------|-------|----------|------------------|------|
| Diesel | ND | 1.0 | mg/Kg | 1.00 | 05/21/2003 11:41 | |
| <i>Surrogates(s)</i> o-Terphenyl | 87.2 | 60-130 | % | 1.00 | 05/21/2003 11:41 | |

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05/27/2003 15:24

Diesel

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Batch QC Report

Prep(s): 3550/8015M

Method Blank

MB: 2003/05/20-07.10-003

Soil

Test(s): 8015M

QC Batch # 2003/05/20-07.10

Date Extracted: 05/20/2003 16:50

| Compound | Conc. | RL | Unit | Analyzed | Flag |
|-------------------------------------|-------|--------|-------|------------------|------|
| Diesel | ND | 1 | mg/Kg | 05/21/2003 06:44 | |
| <i>Surrogates(s)</i> o-Terphenyl | 94.3 | 60-130 | % | 05/21/2003 06:44 | |

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05/27/2003 15:24

Diesel

Northgate Environmental, Oakland
Attn.: Dennis Laduzinsky

3629 Grand Avenue
Oakland, CA 94610
Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00
Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Batch QC Report

Prep(s): 3550/8015M

Test(s): 8015M

Laboratory Control Spike

Soil

QC Batch # 2003/05/20-07.10

LCS 2003/05/20-07.10-001

Extracted: 05/20/2003

Analyzed: 05/21/2003 05:30

LCSD 2003/05/20-07.10-002

Extracted: 05/20/2003

Analyzed: 05/21/2003 06:07

| Compound | Conc. mg/Kg | | Exp. Conc. | Recovery | | RPD % | Ctrl. Limits % | | Flags | |
|-------------------------------------|-------------|------|------------|----------|-------|-------|----------------|-----|-------|------|
| | LCS | LCSD | | LCS | LCSD | | Rec. | RPD | LCS | LCSD |
| Diesel | 39.4 | 39.5 | 41.7 | 94.5 | 95.0 | 0.5 | 60-130 | 25 | | |
| Surrogates(s) o-Terphenyl | 20.8 | 21.0 | 20.0 | 103.9 | 104.8 | | 60-130 | 0 | | |

Diesel

Northgate Environmental, Oakland

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Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Severn Trent Laboratories, Inc.

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05/27/2003 15:24

Gas/BTEX Compounds by 8015M/8021

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Samples Reported

| Sample Name | Date Sampled | Matrix | Lab # |
|-------------|--------------|--------|-------|
| NB-1-4 | 05/16/2003 | Soil | 25 |
| NB-1-9 | 05/16/2003 | Soil | 26 |
| NB-2-4.25 | 05/16/2003 | Soil | 27 |
| NB-2-9 | 05/16/2003 | Soil | 28 |

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05/23/2003 14:52

Gas/BTEX Compounds by 8015M/8021

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue

Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

| | |
|---------------------|-----------------------------|
| Prep(s): 5035 | Test(s): 8015M |
| 5035 | 8021B |
| Sample ID: NB-1-4 | Lab ID: 2003-05-0529 - 25 |
| Sampled: 05/16/2003 | Extracted: 5/22/2003 13:12 |
| Matrix: Soil | QC Batch#: 2003/05/22-01.02 |

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------|-------|--------|-------|----------|------------------|------|
| Gasoline | ND | 1.0 | mg/Kg | 1.00 | 05/22/2003 13:12 | |
| Benzene | ND | 0.0050 | mg/Kg | 1.00 | 05/22/2003 13:12 | |
| Toluene | ND | 0.0050 | mg/Kg | 1.00 | 05/22/2003 13:12 | |
| Ethyl benzene | ND | 0.0050 | mg/Kg | 1.00 | 05/22/2003 13:12 | |
| Xylene(s) | ND | 0.0050 | mg/Kg | 1.00 | 05/22/2003 13:12 | |
| MTBE | ND | 0.0050 | mg/Kg | 1.00 | 05/22/2003 13:12 | |
| Surrogates(s) | | | | | | |
| Trifluorotoluene | 90.3 | 53-125 | % | 1.00 | 05/22/2003 13:12 | |
| 4-Bromofluorobenzene-FID | 87.9 | 58-124 | % | 1.00 | 05/22/2003 13:12 | |

Gas/BTEX Compounds by 8015M/8021

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

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Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

| | | | |
|------------|------------|------------|-------------------|
| Prep(s): | 5035 | Test(s): | 8015M |
| | 5035 | | 8021B |
| Sample ID: | NB-1-9 | Lab ID: | 2003-05-0529 - 26 |
| Sampled: | 05/16/2003 | Extracted: | 5/22/2003 15:49 |
| Matrix: | Soil | QC Batch#: | 2003/05/22-01.02 |

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------|-------|--------|-------|----------|------------------|------|
| Gasoline | ND | 1.0 | mg/Kg | 1.00 | 05/22/2003 15:49 | |
| Benzene | ND | 0.0050 | mg/Kg | 1.00 | 05/22/2003 15:49 | |
| Toluene | ND | 0.0050 | mg/Kg | 1.00 | 05/22/2003 15:49 | |
| Ethyl benzene | ND | 0.0050 | mg/Kg | 1.00 | 05/22/2003 15:49 | |
| Xylene(s) | ND | 0.0050 | mg/Kg | 1.00 | 05/22/2003 15:49 | |
| MTBE | ND | 0.0050 | mg/Kg | 1.00 | 05/22/2003 15:49 | |
| Surrogates(s) | | | | | | |
| Trifluorotoluene | 96.3 | 53-125 | % | 1.00 | 05/22/2003 15:49 | |
| 4-Bromofluorobenzene-FID | 87.7 | 58-124 | % | 1.00 | 05/22/2003 15:49 | |

Gas/BTEX Compounds by 8015M/8021

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

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Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 5035
5035
Sample ID: NB-2-4.25
Sampled: 05/16/2003
Matrix: Soil
Test(s): 8015M
8021B
Lab ID: 2003-05-0529 - 27
Extracted: 5/23/2003 11:05
QC Batch#: 2003/05/23-01.02

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------|-------|--------|-------|----------|------------------|------|
| Gasoline | ND | 1.0 | mg/Kg | 1.00 | 05/23/2003 11:05 | |
| Benzene | ND | 0.0050 | mg/Kg | 1.00 | 05/23/2003 11:05 | |
| Toluene | ND | 0.0050 | mg/Kg | 1.00 | 05/23/2003 11:05 | |
| Ethyl benzene | ND | 0.0050 | mg/Kg | 1.00 | 05/23/2003 11:05 | |
| Xylene(s) | ND | 0.0050 | mg/Kg | 1.00 | 05/23/2003 11:05 | |
| MTBE | ND | 0.0050 | mg/Kg | 1.00 | 05/23/2003 11:05 | |
| Surrogates(s) | | | | | | |
| Trifluorotoluene | 84.1 | 53-125 | % | 1.00 | 05/23/2003 11:05 | |
| 4-Bromofluorobenzene-FID | 84.7 | 58-124 | % | 1.00 | 05/23/2003 11:05 | |

Gas/BTEX Compounds by 8015M/8021

Northgate Environmental, Oakland
Attn.: Dennis Laduzinsky

3629 Grand Avenue
Oakland, CA 94610
Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00
Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Prep(s): 5035 Test(s): 8015M
5035 8021B
Sample ID: **NB-2-9** Lab ID: 2003-05-0529 - 28
Sampled: 05/16/2003 Extracted: 5/22/2003 16:45
Matrix: Soil QC Batch#: 2003/05/22-01.02

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------|-------|--------|-------|----------|------------------|------|
| Gasoline | ND | 1.0 | mg/Kg | 1.00 | 05/22/2003 16:45 | |
| Benzene | ND | 0.0050 | mg/Kg | 1.00 | 05/22/2003 16:45 | |
| Toluene | ND | 0.0050 | mg/Kg | 1.00 | 05/22/2003 16:45 | |
| Ethyl benzene | ND | 0.0050 | mg/Kg | 1.00 | 05/22/2003 16:45 | |
| Xylene(s) | ND | 0.0050 | mg/Kg | 1.00 | 05/22/2003 16:45 | |
| MTBE | ND | 0.0050 | mg/Kg | 1.00 | 05/22/2003 16:45 | |
| Surrogates(s) | | | | | | |
| Trifluorotoluene | 79.4 | 53-125 | % | 1.00 | 05/22/2003 16:45 | |
| 4-Bromofluorobenzene-FID | 76.2 | 58-124 | % | 1.00 | 05/22/2003 16:45 | |

Gas/BTEX Compounds by 8015M/8021

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue
Oakland, CA 94610
Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00
Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Batch QC Report

Prep(s): 5035
Method Blank
MB: 2003/05/22-01.02-003

Soil

Test(s): 8015M
QC Batch # 2003/05/22-01.02
Date Extracted: 05/22/2003 08:24

| Compound | Conc. | RL | Unit | Analyzed | Flag |
|--------------------------|-------|--------|-------|------------------|------|
| Gasoline | ND | 1.0 | mg/Kg | 05/22/2003 08:24 | |
| Benzene | ND | 0.0050 | mg/Kg | 05/22/2003 08:24 | |
| Toluene | ND | 0.0050 | mg/Kg | 05/22/2003 08:24 | |
| Ethyl benzene | ND | 0.0050 | mg/Kg | 05/22/2003 08:24 | |
| Xylene(s) | ND | 0.0050 | mg/Kg | 05/22/2003 08:24 | |
| MTBE | ND | 0.0050 | mg/Kg | 05/22/2003 08:24 | |
| Surrogates(s) | | | | | |
| Trifluorotoluene | 93.1 | 53-125 | % | 05/22/2003 08:24 | |
| 4-Bromofluorobenzene-FID | 97.0 | 58-124 | % | 05/22/2003 08:24 | |

Gas/BTEX Compounds by 8015M/8021

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

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Oakland, CA 94610

Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00

Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Batch QC Report

Prep(s): 5035

Method Blank

MB: 2003/05/23-01.02-003

Soil

Test(s): 8015M

QC Batch # 2003/05/23-01.02

Date Extracted: 05/23/2003 08:31

| Compound | Conc. | RL | Unit | Analyzed | Flag |
|--------------------------|-------|--------|-------|------------------|------|
| Gasoline | ND | 1.0 | mg/Kg | 05/23/2003 08:31 | |
| Benzene | ND | 0.0050 | mg/Kg | 05/23/2003 08:31 | |
| Toluene | ND | 0.0050 | mg/Kg | 05/23/2003 08:31 | |
| Ethyl benzene | ND | 0.0050 | mg/Kg | 05/23/2003 08:31 | |
| Xylene(s) | ND | 0.0050 | mg/Kg | 05/23/2003 08:31 | |
| MTBE | ND | 0.0050 | mg/Kg | 05/23/2003 08:31 | |
| Surrogates(s) | | | | | |
| Trifluorotoluene | 84.5 | 53-125 | % | 05/23/2003 08:31 | |
| 4-Bromofluorobenzene-FID | 92.4 | 58-124 | % | 05/23/2003 08:31 | |

Severn Trent Laboratories, Inc.

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05/23/2003 14:52

Gas/BTEX Compounds by 8015M/8021

Northgate Environmental, Oakland

Attn.: Dennis Laduzinsky

3629 Grand Avenue
Oakland, CA 94610
Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00
Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Batch QC Report

Prep(s): 5035

Test(s): 8021B

Laboratory Control Spike

Soil

QC Batch # 2003/05/22-01.02

LCS 2003/05/22-01.02-004

Extracted: 05/22/2003

Analyzed: 05/22/2003 08:52

LCSD 2003/05/22-01.02-005

Extracted: 05/22/2003

Analyzed: 05/22/2003 09:19

| Compound | Conc. mg/Kg | | Exp.Conc. | Recovery | | RPD % | Ctrl.Limits % | | | Flags | |
|----------------------|-------------|--------|-----------|----------|------|-------|---------------|-----|-----|-------|--|
| | LCS | LCSD | | LCS | LCSD | | Rec. | RPD | LCS | LCSD | |
| Benzene | 0.0990 | 0.0944 | 0.1000 | 99.0 | 94.4 | 4.8 | 77-123 | 35 | | | |
| Toluene | 0.0990 | 0.0931 | 0.1000 | 99.0 | 93.1 | 6.1 | 78-122 | 35 | | | |
| Ethyl benzene | 0.0996 | 0.0944 | 0.1000 | 99.6 | 94.4 | 5.4 | 70-130 | 35 | | | |
| Xylene(s) | 0.304 | 0.290 | 0.300 | 101.3 | 96.7 | 4.6 | 75-125 | 35 | | | |
| Surrogates(s) | | | | | | | | | | | |
| Trifluorotoluene | 492 | 448 | 500 | 98.4 | 89.6 | | 53-125 | | | | |

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05/23/2003 14:52

Gas/BTEX Compounds by 8015M/8021

Northgate Environmental, Oakland
Attn.: Dennis Laduzinsky

3629 Grand Avenue
Oakland, CA 94610
Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00
Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Batch QC Report

Prep(s): 5035

Test(s): 8015M

Laboratory Control Spike

Soil

QC Batch # 2003/05/22-01.02

LCS 2003/05/22-01.02-006

Extracted: 05/22/2003

Analyzed: 05/22/2003 09:47

LCSD 2003/05/22-01.02-007

Extracted: 05/22/2003

Analyzed: 05/22/2003 10:15

| Compound | Conc. | | mg/Kg | Exp.Conc. | Recovery | | RPD | Ctrl.Limits % | | Flags | |
|--------------------------|-------|-------|-------|-----------|----------|------|-----|---------------|------|-------|-----|
| | LCS | LCSD | | | LCS | LCSD | | % | Rec. | RPD | LCS |
| Gasoline | 0.483 | 0.476 | | 0.500 | 96.6 | 95.2 | 1.5 | 75-125 | 35 | | |
| <i>Surrogates(s)</i> | | | | | | | | | | | |
| 4-Bromofluorobenzene-FID | 500 | 489 | | 500 | 100.0 | 97.8 | | 58-124 | | | |

Gas/BTEX Compounds by 8015M/8021

Northgate Environmental, Oakland
Attn.: Dennis Laduzinsky

3629 Grand Avenue
Oakland, CA 94610
Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00
Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Batch QC Report

Prep(s): 5035

Test(s): 8021B

Laboratory Control Spike

Soil

QC Batch # 2003/05/23-01.02

LCS 2003/05/23-01.02-004

Extracted: 05/23/2003

Analyzed: 05/23/2003 08:58

LCSD 2003/05/23-01.02-005

Extracted: 05/23/2003

Analyzed: 05/23/2003 09:26

| Compound | Conc. mg/Kg | | Exp. Conc. | Recovery | | RPD | Ctrl. Limits % | | Flags | |
|----------------------|-------------|--------|------------|----------|------|-----|----------------|------|-------|-----|
| | LCS | LCSD | | LCS | LCSD | | % | Rec. | RPD | LCS |
| Benzene | 0.0928 | 0.0940 | 0.1000 | 92.8 | 94.0 | 1.3 | 77-123 | 35 | | |
| Toluene | 0.0920 | 0.0938 | 0.1000 | 92.0 | 93.8 | 1.9 | 78-122 | 35 | | |
| Ethyl benzene | 0.0926 | 0.0949 | 0.1000 | 92.6 | 94.9 | 2.5 | 70-130 | 35 | | |
| Xylene(s) | 0.291 | 0.290 | 0.300 | 97.0 | 96.7 | 0.3 | 75-125 | 35 | | |
| Surrogates(s) | | | | | | | | | | |
| Trifluorotoluene | 447 | 454 | 500 | 89.4 | 90.8 | | 53-125 | | | |

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05/23/2003 14:52

Gas/BTEX Compounds by 8015M/8021

Northgate Environmental, Oakland
Attn.: Dennis Laduzinsky

3629 Grand Avenue
Oakland, CA 94610
Phone: (510) 839-2939 Fax: (510) 839-4350

Project: 1109.00
Malabar Ave.

Received: 05/19/2003 17:19

Site: Castro Valley

Batch QC Report

Prep(s): 5035

Test(s): 8015M

Laboratory Control Spike

Soil

QC Batch # 2003/05/23-01.02

LCS 2003/05/23-01.02-006

Extracted: 05/23/2003

Analyzed: 05/23/2003 09:54

LCSD 2003/05/23-01.02-007

Extracted: 05/23/2003

Analyzed: 05/23/2003 10:22

| Compound | Conc. mg/Kg | | Exp.Conc. | Recovery | | RPD | Ctrf.Limits % | | Flags | |
|--|-------------|-------|-----------|----------|------|-----|---------------|------|-------|-----|
| | LCS | LCSD | | LCS | LCSD | | % | Rec. | RPD | LCS |
| Gasoline | 0.464 | 0.454 | 0.500 | 92.8 | 90.8 | 2.2 | 75-125 | 35 | | |
| <i>Surrogates(s)</i> 4-Bromofluorobenzene-FID | 496 | 474 | 500 | 99.2 | 94.8 | | 58-124 | | | |

74362



northgate
environmental
management, inc.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

2003-05-0529

| Project No.: 1109.00 | | Project Location: CASTRO VALLEY | | | Date: 5/16/03 | | Serial No.: | |
|--|--|---------------------------------|-------------|---------------------------------|-------------------|---------------|---------------|------|
| Project Name: MALABAR AVE | | Field Logbook No.: | | | ANALYSES | | Samplers: JWO | |
| Sampler (Signature): <i>[Signature]</i> | | | | | | | REMARKS | |
| Sample No | | Date | Time | Lab Sample No. | No. of Containers | Sample Type | HOLD | RUSH |
| SS-A1-1 | | 5/16 | | | 1 | Soil | | |
| SS-A1-3 | | | | | | | X | |
| SS-A2-1 | | | | | | | X | |
| SS-A2-3 | | | | | | | X | |
| SS-A3-1 | | | | | | | X | |
| SS-A3-3 | | | | | | | X | |
| SS-A4-1 | | | | | | | X | |
| SS-A4-3 | | | | | | | X | 4.8% |
| SS-B1-1 | | | | | | | X | |
| SS-B1-3 | | | | | | | X | |
| SS-B2-1 | | | | | | | X | |
| SS-B2-3 | | | | | | | X | |
| SS-B3-1 | | | | | | | X | |
| SS-B3-3 | | | | | | | X | |
| Relinquished by: <i>[Signature]</i> | | Date: 5/19/03 | Time: 13:00 | Received By: <i>[Signature]</i> | | Date: 5/19/03 | Time: 13:00 | |
| Relinquished by: <i>[Signature]</i> | | Date: 5/19/03 | Time: 17:19 | Received By: <i>[Signature]</i> | | Date: | Time: | |
| Relinquished by: <i>[Signature]</i> | | Date: | Time: | Received By: Nouna K. | | Date: 5-19/03 | Time: 1719 | |
| Method of Shipment: | | Date: | Time: | Lab Comments: Nouna K. | | | | |
| Sample Collector: Northgate Environmental Management, Inc. 3629 Grand Avenue Oakland, California 94610 (510) 839 0688 | | | | Analytical Laboratory: | | | | |

Original in
 125 ml
 Desiccator
 125 ml

743682
DSW



northgate
environmental
management, inc.

CHAIN OF CUSTODY ANALYSES REQUEST FORM

2003-05-0529

| Project No.: 1109 CC | | Project Location: CASTRO VALLEY | | Date: 5/16/03 | | Serial No.: | | | | | |
|--|------|---------------------------------|----------------|---------------------------------|-------------|---------------|------------|-----------------------------|-----------------------------|------|------|
| Project Name: MALABAR AVE | | Field Logbook No.: | | ANALYSES | | Samplers: JWC | | | | | |
| Sampler (Signature): <i>[Signature]</i> | | Samples | | ANALYSES | | REMARKS | | | | | |
| Sample No | Date | Time | Lab Sample No. | No. of Containers | Sample Type | 8015 | 8021 | Organic Chlorine Pesticides | Organophosphorus Pesticides | HOLD | RUSH |
| SS-B4-1 | 5/16 | | | 1 | SOIL | | | X | X | | |
| SS-B4-3 | | | | | | | | | | X | |
| SS-C1-1 | | | | | | | | X | X | | |
| SS-C2-1 | | | | | | | | X | X | | |
| SS-C3-1 | | | | | | | | X | X | | |
| SS-C4-1 | | | | | | | | X | X | | |
| SS-D1-1 | | | | | | | | X | X | | |
| SS-D2-1 | | | | | | | | X | X | | |
| SS-D3-1 | | | | | | | | X | X | | |
| SS-D4-1 | | | | | | | | X | X | | |
| NB-1-4 | | | | | | X | X | | | | |
| NB-1-9 | | | | | | X | X | | | | |
| NB-2-4.25 | | | | | | X | X | | | | |
| NB-2-9 | | | | | | X | X | | | | |
| Relinquished by: <i>[Signature]</i> | | Date: 5/14 | Time: | Received By: <i>[Signature]</i> | | Date: 5/14/03 | Time: 1310 | | | | |
| Relinquished by: <i>[Signature]</i> | | Date: 5/19/03 | Time: 1714 | Received By: <i>[Signature]</i> | | Date: | Time: | | | | |
| Relinquished by: <i>[Signature]</i> | | Date: | Time: | Received By: <i>[Signature]</i> | | Date: 5/19/03 | Time: 1719 | | | | |
| Method of Shipment: | | Date: | Time: | Lab Comments: | | | | | | | |
| Sample Collector: Northgate Environmental Management, Inc. 3629 Grand Avenue Oakland, California 94610 (510) 839 0688 | | | | Analytical Laboratory: 4.8C | | | | | | | |

Don't know test numbers for organo-chlorine and phosphorus pesticides. If you have any questions, please contact Dennis Lindner at (510) 839-2939.

| | | | |
|---|---|-------------------------------|---------------------|
| PROJECT NAME <u>Malabar Avenue</u> | BORING LOCATION <u>-25' SW of former UST</u> | | |
| PROJECT NUMBER <u>1109.00</u> | PROJECT LOCATION <u>Castro Valley, California</u> | | |
| DATE STARTED <u>5/16/03</u> | COMPLETED <u>5/16/03</u> | GROUND ELEVATION _____ | HOLE SIZE <u>8"</u> |
| DRILLING CONTRACTOR <u>HEW drilling</u> | AGENCY _____ | GROUND WATER LEVELS: | |
| DRILLING METHOD <u>CME 45 Hollow Stem Auger</u> | AT TIME OF DRILLING <u>---</u> | | |
| LOGGED BY <u>JWO</u> | CHECKED BY <u>DML</u> | AT END OF DRILLING <u>---</u> | |
| SURFACE CONDITIONS _____ | AFTER DRILLING <u>---</u> | | |

| DEPTH (ft) | SAMPLE TYPE NUMBER | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION | PID (ppm) |
|------------|--------------------|----------|-------------|--|-----------|
| 1 | | ML | | Sandy silt, dark brown, damp, no odor | |
| 2 | | | 2.0 | Sandy silt to silty sand, brown moist, no odor | |
| 3 | | | 3.5 | | |
| 4 | NB-1-4 | | 4.5 | Weathered siltstone, light brown, dry, no odor [@ 4' blow counts 50/3"] | 1 |
| 5 | | | | Same to 9' | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | [@ 9' blow counts 50/2"] | |
| 9 | | | 9.0 | | |
| 10 | NB-1-9 | | | Same , color grading to brown dry, no odor very hard drilling, drilled to refusal at 14' | 1 |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | [@ 14' blow counts 50/1"] | |
| 14 | | | 14.0 | Bottom of hole at 14.0 feet. | |

GENERAL NORTHGATE 1109.00 MALABAR AVE.GPJ GINT US.GDT 5/31/03

PROJECT NAME Malabar Avenue BORING LOCATION Sunken area at former UST location
 PROJECT NUMBER 1109.00 PROJECT LOCATION Castro Valley, California
 DATE STARTED 5/16/03 COMPLETED 5/16/03 GROUND ELEVATION _____ HOLE SIZE 8"
 DRILLING CONTRACTOR HEW drilling AGENCY _____ GROUND WATER LEVELS:
 DRILLING METHOD CME 45 Hollow Stem Auger AT TIME OF DRILLING ---
 LOGGED BY JWO CHECKED BY DML AT END OF DRILLING ---
 SURFACE CONDITIONS _____ AFTER DRILLING ---

| DEPTH (ft) | SAMPLE TYPE NUMBER | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION |
|------------|--------------------|----------|-------------|---|
| 1 | | ML | 0.5 | Sandy silt, dark brown, top soil moist, no odor |
| 2 | | | | Fill, mix of sand & clay, brown fragments of red clay pipes damp, no odor |
| 3 | | | | Same to 4' |
| 4 | | | | [@ 4' blow counts 50/3"] |
| 5 | NB-2.4 | | 4.0 | Siltstone, light brown, dry, no odor, layered, friable |
| 6 | | | | Same to 9' |
| 7 | | | | |
| 8 | | | | [@ 9' blow counts 50/4"] |
| 9 | NB-2.9 | | 9.0 | Bottom of hole at 9.0 feet. |

GENERAL_NORTHGATE_1109.00_MALABAR_AVE.GPJ GINT US.GDT 5/31/03