Hall Equities Group™
Real Estate Investment · Development · Management

July 29, 2008

Jerry Wickham, P.G.
Hazardous Materials Specialist
Alameda County Health Care Services
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Case No. RO0000018 and Geotracker Global ID T0600100262
Former Carnation Dairy, 1310 14th Street, Oakland, CA 94607
Well Decommissioning Report and Request For NFA Letter

Dear Mr. Wickham:

We are submitting herewith our Well Decommissioning Report for Water Supply Well in accordance with the request in your June 12, 2008 correspondence.

We would now ask that you confirm your concurrence that no further action is warranted with respect to the property outside of the deed restricted northwestern portion of the site.

Previously, in your May 12, 2008 correspondence (Attachment 1) you concurred that "no further action is required in the southwestern quadrant of the site based on the available data, which indicate limited impact to soil and groundwater." At that time you did not request "further investigation or cleanup in the eastern half of the site pending sampling and decommissioning of the water supply well." You requested that we "complete the sampling and decommissioning of the water supply well and submit the results by July 14, 2008."

We submitted our report entitled "Groundwater Sampling Report, 10-Inch Water Well, Former Carnation Facility" dated May 19, 2008 (included within Attachment 3 referenced below). By your correspondence dated June 12, 2008 (Attachment 2), you concurred that "no further sampling or investigation of the water well is necessary at this time." You requested that "the well be properly decommissioned in accordance with requirements of the Alameda County Public Works Agency". You also requested that we submit a technical report concerning the decommissioning by September 12, 2008. The well has been decommissioned and that report is enclosed with this letter (Attachment 3).

Accordingly, we would appreciate confirmation that no further action is required with respect to either the southwestern quadrant or the eastern half of the property; that is, with respect to any portion of the property other than the northwestern deed restricted portion of the property.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report are true and correct to the best of my knowledge.

1855 Olympic Boulevard · Suite 250 · Walnut Creek · California · 94596 · Tel. 925-933-4000 · Fax 925-933-4150
www.hallequitiesgroup.com

Should you have any questions, please do not hesitate to call. Thank you for your attention to this matter.

Sincerely,

Hall Equities Group

By: _____

Kenneth A. Cheitlin,

Executive Vice President

As Authorized Agent for Encinal 14th Street, LLC

Cc: Michael Desso, Nestle USA, Inc.

Enclosures:

Attachment 1: Response to "Site Characterization Report" dated, May 12, 2008

Attachment 2: Response to "Groundwater Sampling Report" dated, June 12, 2008

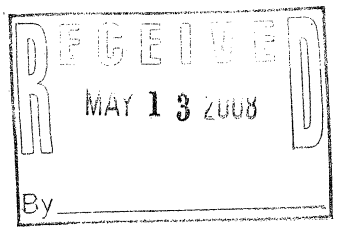
Attachment 3: Well Destruction Report dated, July 28, 2008

Attachment 1

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

May 12, 2008



Mr. Michael Desso
Nestle USA, Inc.
800 North Brand Blvd.
Glendale, CA 91203

Mr. Mark Hall
Encinal 14th Street, LLC
1855 Olympic Blvd., Suite 250
Walnut Creek, CA 94596

Subject: Fuel Leak Case No. RO0000018 and Geotracker Global ID T0600100262, Carnation Dairy, 1310 14th Street, Oakland, CA 94607

Dear Mr. Desso and Mr. Hall:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above referenced site including the document entitled, "*Site Characterization Report, Former Carnation Facility, Oakland, CA*," dated March 28, 2008. The site consists of a one-block area bordered by 16th Street on the north, 14th Street on the south, Poplar Street on the east, and Mandela Parkway on the west. The Site Characterization Report, which was prepared by AEI Consultants on behalf of Hall Equities for Encinal 14th Street LLC, discusses investigation and excavation results for the eastern half and southwestern quadrant of the site. Site investigation activities within the northwestern portion of the site are currently ongoing in a separate site investigation under the direction of Nestle USA.

The technical comments below discuss results presented in the Site Characterization Report only for the southwestern quadrant and eastern half of the site. The Site Characterization Report concludes that no further action is warranted with respect to the property outside of the deed restricted northwestern portion of the site where Nestle USA and their consultants are currently active. We concur that no further action is required in the southwestern quadrant of the site based on the available data, which indicate limited impact to soil and groundwater. At this time, we are not requesting further investigation or cleanup in the eastern half of the site pending sampling and decommissioning of the water supply well. If groundwater contamination is detected in the water supply well, additional investigation may be requested. We request that you complete the sampling and decommissioning of the water supply well and submit the results by July 14, 2008.

Given the progress on site investigation and cleanup in the eastern half of the site and the initiation of site characterization activities in the northwestern portion of the site, ACEH will consider separate regulatory cases for the northwestern portion of the site and the remainder of the site to potentially facilitate site reuse. In order to proceed with establishment of separate cases, please submit a written proposal that includes a description of the parcels, the rationale for the separation, and a map showing an outline of the property parcels.

We request that you address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

1. **Southwestern Quadrant of Site.** A former gasoline serve station was reported near the southwestern corner of the site. One soil boring (EB-5) was advanced in this area by Lowney Associates in 2004. Total petroleum hydrocarbons as diesel (TPHd) were detected in soil and groundwater collected from EB-9 at concentrations of 1.9 milligrams per kilogram and 58 milligrams per liter, respectively. No other fuel hydrocarbons or VOCs were detected in soil or groundwater samples from EB-9. The Site Characterization Report concludes that no further action is required in the southwestern quadrant. Based on the reported site investigation results, we concur that no further action is required in the southwestern quadrant of the site at this time.

2. **Abandoned in Place USTs.** Two abandoned in place USTs (T-4 and T-5) were removed during the latter half of 2007. Impacted soil around the tanks was excavated below the groundwater level and the excavation was dewatered several times. The excavation was expanded to include areas affected by free product and additional gasoline-contaminated soil. The Site Characterization Report concludes that no further action with regard to the two abandoned in place USTs (T4 and T5) is warranted. Based on the results of confirmation soil and groundwater samples, we concur that no further action is required at this time for the two abandoned in place USTs (T4 and T5).

3. **USTs Discovered during Building Demolition.** During demolition of the buildings in the eastern half of the site, three previously unidentified USTs were discovered. Each of the three tanks (T1, T2, and T3) were removed in 2007. Tank T1 was breached during removal of the overlying concrete slab resulting in the release of an estimated 50 gallons of fuel. Confirmation soil and groundwater samples collected after tank removal and excavation indicated that minimal soil or groundwater contamination remained in the Tank T1 area. No petroleum hydrocarbons or VOCs were detected in one soil sample collected beneath tank T2. Following tank removal and dewatering of the excavation, fuel hydrocarbons were not detected in soil samples from the excavation. Groundwater samples contained TPHg and TPHd at concentrations of 85 and 92 micrograms per liter (µg/L), respectively. The Site Characterization Report concludes that no further action with regard to the USTs T1, T2, and T3 is warranted. Based on the results of confirmation soil and groundwater samples, we concur that no further action is required at this time for USTs T1, T2, and T3.

4. **Former Water Supply Well.** A 10-inch diameter water supply well is present in the southeastern quadrant of the site in a basement vault. Sampling of this well was proposed in a work plan dated January 14, 2008. We request that you present a description of the sampling methods and results in a report by July 10, 2008. Please also identify the well decommissioning or repair activities undertaken to date and future plans for decommissioning the well. Specifically, will the former water supply well remain a potential receptor for residual groundwater contamination at the site?

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- **July 14, 2008** – Results from Sampling of the Water Supply Well

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or

certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297
Senior Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032

Kenneth Cheitlin, Hall Equities Group, 1855 Olympic Blvd., Suite 250 Walnut Creek, CA 94596

Tom Miller, Hall Equities Group, 1855 Olympic Blvd., Suite 250 Walnut Creek, CA 94596

Jennifer Costanza, Nestle USA, Inc., 800 North Brand Blvd. Glendale, CA 91203

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**ISSUE DATE:** July 5, 2005
	REVISION DATE: December 16, 2005
	PREVIOUS REVISIONS: October 31, 2005
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

Effective **January 31, 2006**, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection**. (Please do not submit reports as attachments to electronic mail.)
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements **must** be included and have either original or electronic signature.
- **Do not password protect the document**. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:
  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Additional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in **Excel** format. These are for use by assigned Caseworker only.

Submission Instructions

1) Obtain User Name and Password:
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to dehloptoxic@acgov.org
         or
      ii) Send a fax on company letterhead to (510) 337-9335, to the attention of Alicia Lam-Finneke.
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for.**

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   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name at acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload)

Binayak Acharya, Environmental Cost Management, 52830 Quilla Road
Valencia, CA 91355

Robert Flory, AEI Consultants, 2500 Camino Diablo Blvd., Suite 200
Walnut Creek, CA 94597

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

Attachment 2

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

June 12, 2008

Mr. Michael Desso
Nestle USA, Inc.
800 North Brand Blvd.
Glendale, CA 91203

Mr. Mark Hall
Encinal 14th Street, LLC
1855 Olympic Blvd., Suite 250
Walnut Creek, CA 94596

Subject: Fuel Leak Case No. RO0000018 and Geotracker Global ID T0600100262, Carnation Dairy, 1310 14th Street, Oakland, CA 94607

Dear Mr. Desso and Mr. Hall:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above referenced site including the document entitled, "*Groundwater Sampling Report, 10-Inch Water Well, Former Carnation Facility*," dated May 19, 2008. The Groundwater Sampling Report, which was prepared by AEI Consultants on behalf of Hall Equities for Encinal 14th Street LLC, presents results from sampling of a 10-inch diameter water well that found in an underground vault adjacent to a former bunker oil tank.

Methyl-tert-butyl ether (MTBE) was detected in the groundwater sample at a concentration of 11 micrograms per liter. The Groundwater Sampling Report concludes that no further action is necessary in regard to impact to groundwater in the 10-inch water well. We concur that no further sampling or investigation of the water well is necessary at this time. Therefore, we request that the well be properly decommissioned in accordance with requirements of the Alameda County Public Works Agency. Please document the well decommissioning in the report requested below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- **September 12, 2008** – Well Decommissioning Report for Water Supply Well

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

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Binayak Acharya, Environmental Cost Management, 52830 Quilla Road Valencia, CA 91355

Robert Flory, AEI Consultants, 2500 Camino Diablo Blvd., Suite 200 Walnut Creek, CA 94597

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

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   a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name at acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload.** (e.g., Subject: RO1234 Report Upload)

Attachment 3

MARTELL WATER SYSTEMS, INC.
1818 Loveridge Road/Pittsburg, CA 94565-4111
(800) 498-4282 (925) 432-4282 Fax (925) 432-8149

July 28, 2008

Tom Miller
Hall Equities Group
1855 Olympic Blvd.
Walnut Creek, CA 94596

Re: Well Destruction Report on DWR# 0945625, Permit No. W2008-0409

Job Location: 1310 14th Street, Oakland, CA in Alameda County

Well Description: 10" Steel Cased Well at 70' deep

- Well was cleaned out by jetting through tremie pipe.
- 11 Sack Sand Cement Grout was pumped from bottom up to fill well.
- Pulled temp conductor
- Top of Grout is approximately 10' below finish grade.

Sincerely,

Leroy Chancellor

Leroy Chancellor, Owner
Martell Water Systems, Inc.

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 07/03/2008 By jamesy

Permit Numbers: W2008-0409
Permits Valid from 07/15/2008 to 07/17/2008

Application Id: 1214852694131
Site Location: 1310 4th Street
Oakland, CA
City of Project Site: Oakland
Project Start Date: 07/11/2008
Completion Date: 07/11/2008
Requested Inspection: 07/11/2008
Scheduled Inspection: 07/11/2008 at 2:00 PM (Contact your inspector, Vicky Hamlin at (510) 670-5443, to confirm.)
Extension Start Date: 07/15/2008
Extension End Date: 07/17/2008
Extension Count: 1
Extended By: vickyh1

Applicant: Martell Water Systems, Inc. - Leroy Chancellor
1818 Loveridge Road, Pittsburg, CA 94565
Phone: 925-432-4282

Property Owner: Hall Equities Group
1855 Olympic Blvd., Walnut Creek, CA 94596
Phone: 925-286-2017

Client: ** same as Property Owner **

Contact: Leroy Chancellor
Phone: 925-432-4282
Cell: 925-250-0952

Total Due: $300.00
Receipt Number: WR2008-0233 **Total Amount Paid:** $300.00
Payer Name : Martell Water Systems, Inc. Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Well Destruction-Water Supply - 1 Wells
Driller: Martell Water Systems, Inc. - Lic #: 510952 - Method: wperf **Work Total: $300.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2008-0409	07/03/2008	10/09/2008	WP1	0.00 in.	10.00 in.	0.00 ft	300.00 ft			

Specific Work Permit Conditions

1. Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate state reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days, including permit number and site map.

2. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

3. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

4. The sealing material shall be a neat cement mixture composed one sack of portland cement (94 lbs.) to five to seven

gallons of clean water, or a sand-grout mixture with a minimum of eleven sacks of portland cement per cubic yard. The sand-grout mixture must be delivered by a cement-batch plant; mixing of sand-grout mixture on site will not be allowed. The sealing material in all cases shall be placed by means of a tremie pipe lowered to within three feet of the bottom of the well. The sealing material shall be lowered down through the tremie pipe and placed in one continuous operation until the specified interval or well is filled. The end of the tremie pipe shall remain submerged in the sealing material at all times during placement.

5. Cement grout shall be placed by Tremie pipe. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.

6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

May 19, 2008

GROUNDWATER SAMPLING REPORT
10-INCH WATER WELL
FORMER CARNATION FACILITY

1310 14th Street
Oakland, California

AEI Project No. 277205
ACEH Case No. RO00018

Prepared For

Mr. Mark Hall
Hall Equities for
Encinal 14th Street, LLC
18550 Olympic Boulevard, #250
Walnut Creek, CA 94596

Prepared By

AEI Consultants
2500 Camino Diablo
Walnut Creek, California 94597
(925) 944-2899

AEI

1.0 INTRODUCTION

AEI Consultants (AEI) has been retained by Encinal 14th Street, LLC represented by Mark Hall, Hall Equities Walnut Creek, California to provide environmental engineering and consulting services related to ongoing environmental concerns at the former Carnation Dairy Facility located at 1310 14th Street, Oakland, California (Figure 1). The ongoing investigation and mitigation of the release is being performed under the direction of the Alameda County Environmental Health Department (ACEH) Local Oversight Program (LOP).

AEI has prepared this report summarizing the results of analysis of a groundwater sample for the deep well discovered onsite during demolition activities in 2007. This sampling was done in support of the request by Encinal 14th Street, LLC, Alameda County, California (Figure 1) for site closure for portion of the site outside of the Nestle deed restricted northwest quadrant of the site.

2.0 SITE DESCRIPTION & HISTORY

The approximately 6-acre site is located at 1310 Fourteenth Street in a mixed commercial and residential area. It is bounded to the north by Sixteenth Street and commercial properties, to the east by Poplar Street and commercial properties, to the west by Mandela Parkway and residences, and to the south Fourteenth Street and commercial properties (Figure 1). The site is currently owned by Encinal 14th Street, LLC. The dairy facility was originally owned by American Creamery and was constructed in 1915. Carnation purchased the facility in 1929. Several additions and improvements to the buildings were made between 1946 and 1973 to meet operation requirements. The Nestlé USA, Inc most recently owned the site after its acquisition of Carnation.

3.0 WATER WELL

An unidentified water well was found in the underground vault adjacent to the bunker oil tank T-1 (Figure 2). The well consisted of a 10-inch diameter casing with approximately 150 feet of 4-inch production casing and pump. A review of California Department of Water Resources (DWR), which was included in the site summary report, found no record of this well. The only deep well included in the well driller's reports was a well located to the north and east in DeFremery Park. According to the driller's log, this well contained a well developed water sand at a depth of approximately 45 feet bgs.

Based on this data AEI proposed the following scope of sampling which was approved by the ACEH.

1. Purge 100 gallons of water from a depth of 45 feet bgs using a 12 volt submersible pump
2. Collect a groundwater sample from 45 feet bgs using the submersible pump.

3. Analyze the Groundwater sample for Total Petroleum Hydrocarbons Multi-range (gasoline, diesel, and bunker oil) and Volatile Organic Compounds by method 8260.

4.0 GROUNDWATER SAMPLING

On May 7, 2008, AEI de-watered the T-1 excavation to allow access to the well. The 10-inch casing was broken/rusted off at a depth of approximately 7 feet below the top of the casing, approximately 4 feet below the top groundwater. The excavation was deepened to the top of solid casing and a section of 12-inch steel casing set over the top of the 10-inch casing by Martell Well Services (C-57 #510952) of Pittsburg, CA. The 12-inch casing was plumbed and then driven approximately 1-foot down over the top of the 10-inch casing. The excavation was then backfilled to above the top of the groundwater to allow access to the well for destruction at a future date under supervision of the Alameda County Public Works Agency, Water Resources Department.

A groundwater sample was collected from the well on May 9, 2008. The well was purged using a 12 volt submersible pump placed at a depth of 45 feet below the top of the casing. 100 gallons of water were purged at an average rate of 1.78 gallons per minute. Groundwater parameters of temperature, pH, specific conductivity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) were measured during purging. A visual evaluation of turbidity was made and noted. Groundwater measurements recorded in the field are reported on the field sampling forms presented in Appendix A. Three (3) 40-milliliter VOAs and two (2) 1-liter amber bottles of groundwater were collected, labeled and transported to McCampbell Analytical, Inc. of Pittsburg, California (Department of Health Services Certification #1644). The groundwater samples were analyzed for volatile organic compounds (VOCs) by method 8260B and multi-range hydrocarbons (TPH-g, TPH-d, TPH-mo, and TPH-bo) by methods SW 8015CM, SW 8015C.

5.0 FINDINGS

TPH-g, TPH-d, TPH-mo, and TPH-bo were all reported as non detectable at detection limits of 50 µg/l, 50 µg/l, 250 µg/l, and 100 µg/l, respectively. Analysis for VOCs reported Methyl-tert-butyl ether (MTBE) at a concentration of 11 µg/l. All other VOCs were reported as non-detectable at their respective detection limits. A copy of the analytical report is attached in Appendix A.

6.0 CONCLUSIONS & RECOMMENDATION

The MTBE concentration reported in the groundwater sample from the well is below the RWQCB risk based screening level for drinking water or 13 µg/l (Table F-3 – Interim Final – Nov. 2007).

AEI believes no further action is necessary in regard to impact to groundwater in the 10-inch water well at the subject site.

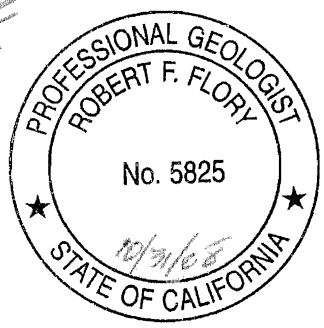
7.0 CLOSING STATEMENT AND SIGNATURE

The recommendations and conclusions rendered in this report were based on previous field investigations and laboratory testing of soil and groundwater samples. All specified work was performed in accordance with generally accepted practices in environmental engineering, engineering geology, and hydrogeology fields under the direction of appropriate registered professional(s).

We look forward to hearing your comments regarding this report. Should you have any questions or need any additional information, please contact me at (925) 944-2899.

Sincerely,
AEI Consultants

Robert F. Flory, P.G.
Senior Project Geologist

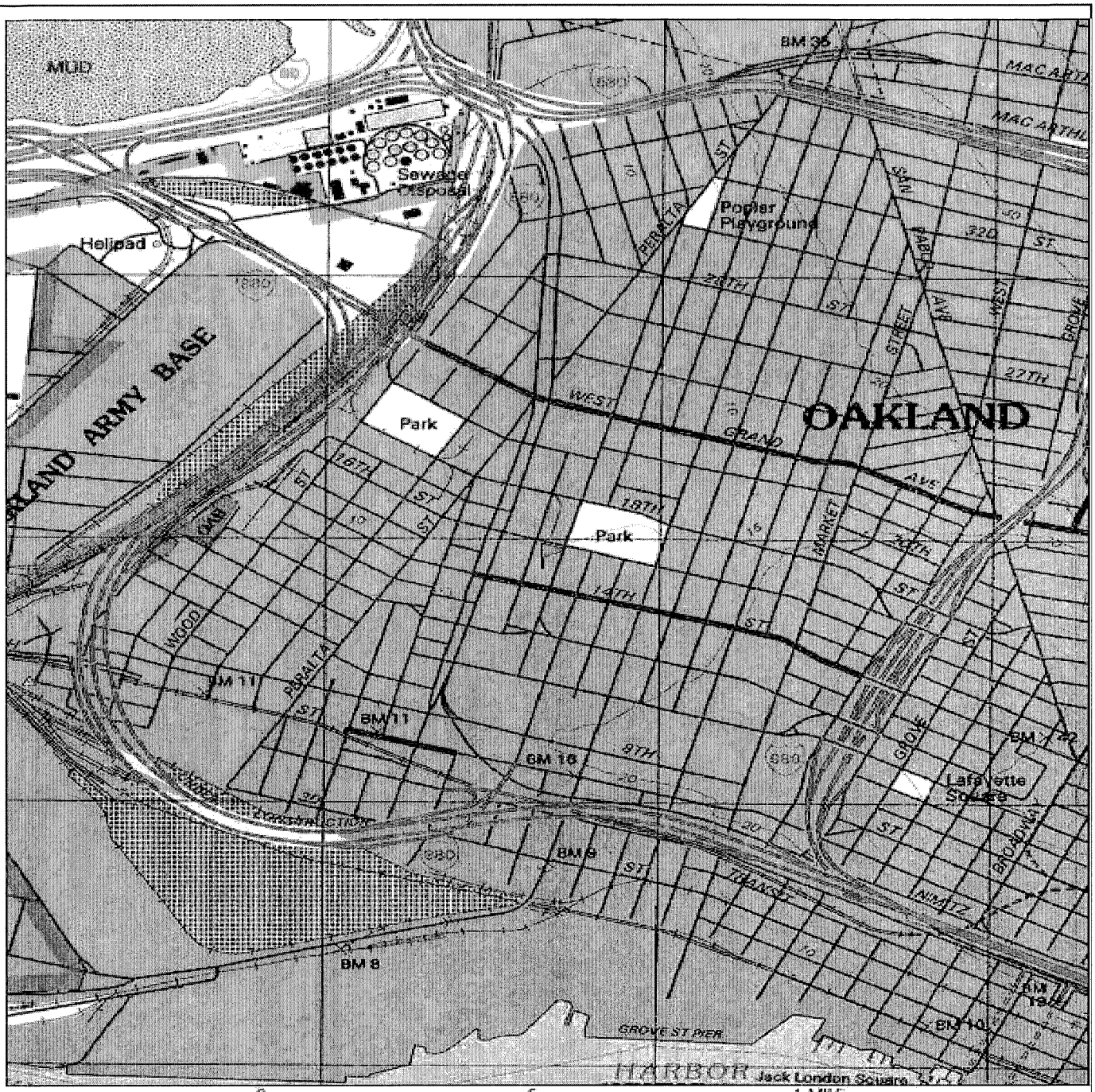


Distribution:

Mark Hall (electronic)
Encinal 14th Street, LLC
1855 Olympic Boulevard, # 250, Walnut creek, CA 94596

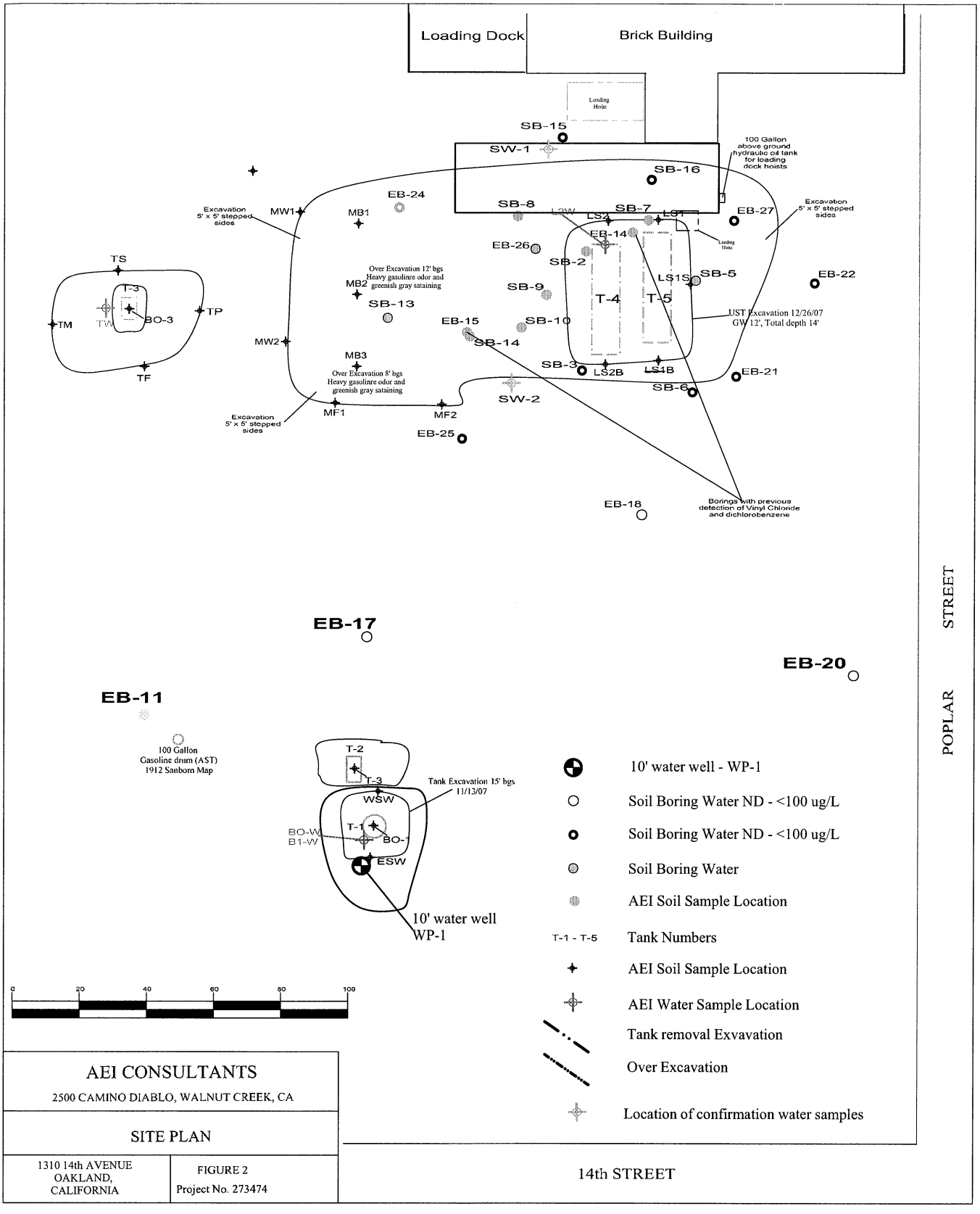
Jerry Wickham (electronic)
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250Alameda, CA 94502

FIGURES



Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)

AEI CONSULTANTS 2500 Camino Diablo, Walnut Creek, CA 94597	
SITE LOCATION PLAN	
1310 14th Street Oakland, California	**FIGURE 1** Job No: 277205



AEI CONSULTANTS	
2500 CAMINO DIABLO, WALNUT CREEK, CA	
SITE PLAN	
1310 14th AVENUE OAKLAND, CALIFORNIA	FIGURE 2 Project No. 273474

APPENDIX A

Attachments

AEI CONSULTANTS

Monitoring Well Number: WP-1

Project Name:	Former Carnation Site - Encinal	Date of Sampling:	5/9/2008
Job Number:	273474	Name of Sampler:	RFF
Project Address:	1310 14th Street, Oakland, CA		

MONITORING WELL DATA

Well Casing Diameter	10-inches		
Wellhead Condition	10 feet of 12-inch casing set over broken end of 10-inch		
Depth of Well (feet)	150		
Depth to Water (feet from top of casing) Pre-purge	4.25	@ (Time)	1225
Depth to Water (feet from top of casing) Post-purge	4.28	@ (Time)	1329
Sample time	1330		
Sample ID	WP-1		
Appearance of Purge Water	Clear		
Free Product Present?	No	Thickness (ft):	----

GROUNDWATER SAMPLES

Number of Samples/Container Size: 3 VOAs, 2 Amber

Time	Vol Removed (gallons)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
1230	0						
1233	5	24.11	7.10	461	4.25	311	Slightly milky
1237	10	24.02	7.00	485	3.12	309	
1240	15	23.87	6.98	476	2.78	305	Slightly silty
1243	20	23.91	6.97	461	1.98	301	
1246	25	23.78	6.92	453	1.80	291	Clear
1249	30	23.82	6.96	439	1.86	286	
1252	35	23.70	6.95	425	1.82	250	
1255	40	23.61	6.95	431	1.80	238	
1258	45	23.63	6.94	438	1.84	221	
1301	50	23.65	6.94	431	1.83	210	
1304	55	23.72	6.94	425	1.75	198	
1304	60	23.68	6.93	420	1.79	190	
1307	65	23.71	6.91	425	1.71	189	
1310	70	23.75	6.90	435	1.70	190	
1313	75	23.72	6.88	421	1.72	189	
1316	80	23.69	6.89	427	1.76	188	
1319	85	23.67	6.87	425	1.54	188	
1322	90	23.68	6.88	428	1.67	187	
1325	95	23.70	6.89	427	1.66	189	
1328	100	23.68	6.88	429	1.67	191	Clear
1330	Sample						

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Pump depth - 45 feet

McCampbell Analytical, Inc.
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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants	Client Project ID: #273474; Carnation	Date Sampled: 05/09/08
2500 Camino Diablo, Ste. #200		Date Received: 05/09/08
Walnut Creek, CA 94597	Client Contact: Robert Flory	Date Reported: 05/15/08
	Client P.O.:	Date Completed: 05/14/08

WorkOrder: 0805261

May 15, 2008

Dear Robert:

Enclosed within are:

1) The results of the **1** analyzed sample from your project: **#273474; Carnation,**
2) A QC report for the above sample,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

0805241 RUSH 3 day per OM

McCampbell Analytical, Inc.
1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY

GeoTracker EDF ☒ PDF ☒ Excel ☐ Write On (DW) ☐

Report To: Robert Flory	Bill To: AEI Consultants
Company: AEI Consultants	
2500 Camino Diablo	
Walnut Creek, CA 94597	E-Mail: rflory@aeiconsultants.com
Tel: (925) 944-2899, extension 122	Fax: (925) 944-2895
Project #: 273474	Project Name: Carnation
Project Location: 1310 11th Street, Oakland, California	
Sampler Signature:	

SAMPLE ID	LOCATION (Field Point Name)	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED Ice	HCl	HNO_3	Other	Analysis Request: BTEX & TPH as Gas (602/8020 + 8015) MTBE	TPH Midrange (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	VOCs EPA 8260	BTEX ONLY (EPA 602 / 8020)	Pesticides EPA 608 / 8080	PCBs EPA 608 / 8080	EPA 624 / 8260 (8) Oxygenates & scavengers	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	Other	Other	Other	Other	Comments
WP-1	WP-1	5/7/08	1330	3	VOA	X					X					X			X														Filter Samples for Metals Analysis: Yes / No

Relinquished By:	Date:	Time:	Received By:
	5/7/08	2:38	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 12°
GOOD CONDITION ✓
HEAD SPACE ABSENT ____
DECHLORINATED IN LAB ____

PRESERVATION APPROPRIATE ✓ CONTAINERS ✓	VOAS	O&G	METALS	OTHER
PERSERVED IN LAB ____				

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0805261 **ClientCode: AEL**

☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Robert Flory
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
(925) 283-6000 FAX (925) 283-6121
Email: rflory@aeiconsultants.com
cc:
PO:
ProjectNo: #273474; Carnation

Bill to:
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TAT: 5 days
Date Received: **05/09/2008**
Date Printed: **05/09/2008**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
0805261-001	WP-1	Water	5/9/2008 13:30	☐	B	A	A									

Test Legend:

1	8260B_W	2	G-MBTEX_W	3	PREDF REPORT	4		5	
6		7		8		9		10	
11		12							

The following SampID: 001A contains testgroup.

Prepared by: Melissa Valles

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **AEI Consultants**
Date and Time Received: **5/9/08 3:17:37 PM**

Project Name: **#273474; Carnation**
Checklist completed and reviewed by: Melissa Valles

WorkOrder N°: **0805261** Matrix Water
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☐	No ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 7.2°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

Client contacted: Date contacted: Contacted by:

Comments:

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Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants	Client Project ID: #273474; Carnation	Date Sampled: 05/09/08
		Date Received: 05/09/08
2500 Camino Diablo, Ste. #200	Client Contact: Robert Flory	Date Extracted: 05/12/08
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed 05/12/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0805261

Lab ID	0805261-001B
Client ID	WP-1
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Tetrachloride	ND	1.0	0.5
Carbon Disulfide	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	11	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	106	%SS2:	99
%SS3:	103		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

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

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative; q) reported in ppm.

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AEI Consultants	Client Project ID: #273474; Carnation	Date Sampled: 05/09/08
2500 Camino Diablo, Ste. #200		Date Received: 05/09/08
Walnut Creek, CA 94597	Client Contact: Robert Flory	Date Extracted: 05/13/08
	Client P.O.:	Date Analyzed 05/13/08

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method SW5030B Analytical methods SW8015Cm Work Order: 0805261

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	WP-1	W	ND	1	102

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
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AEI Consultants	Client Project ID: #273474; Carnation	Date Sampled: 05/09/08
2500 Camino Diablo, Ste. #200		Date Received: 05/09/08
Walnut Creek, CA 94597	Client Contact: Robert Flory	Date Extracted: 05/09/08
	Client P.O.:	Date Analyzed 05/15/08

Total Extractable Petroleum Hydrocarbons*

Extraction method SW3510C Analytical methods SW8015C Work Order: 0805261

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	TPH-Bunker Oil (C10-C36)	DF	% SS
001A	WP-1	W	ND	ND	ND	1	95

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	100	µg/L
	S	NA	NA	NA	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant (cooking oil?); h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) kerosene/kerosene range; l) bunker oil range (?); no recognizable pattern; m) fuel oil; n) stoddard solvent/mineral spirits; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0805261

EPA Method SW8260B	Extraction SW5030B				BatchID: 35516				Spiked Sample ID: 0805270-007B			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	116	116	0	106	104	1.56	70 - 130	30	70 - 130	30
Benzene	ND	10	109	109	0	103	101	2.39	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	103	104	1.17	106	107	0.626	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	103	102	1.25	96.6	93.4	3.41	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	109	110	1.17	98.6	96.6	1.98	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	120	120	0	127	123	3.04	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	93.2	94.3	1.14	93.9	92.4	1.67	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	101	100	0.629	93.7	91.3	2.63	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	112	112	0	107	105	1.78	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	110	110	0	120	115	3.88	70 - 130	30	70 - 130	30
Toluene	ND	10	95.1	95.2	0.00964	83.3	81.5	2.19	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	101	101	0	94	93	1.03	70 - 130	30	70 - 130	30
%SS1:	107	10	101	101	0	103	102	1.30	70 - 130	30	70 - 130	30
%SS2:	99	10	99	98	0.402	96	96	0	70 - 130	30	70 - 130	30
%SS3:	101	10	101	102	0.556	92	91	1.47	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 35516 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0805261-001B	05/09/08 1:30 PM	05/12/08	05/12/08 3:24 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification N° 1644

JR QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0805261

EPA Method SW8021B/8015Cm	Extraction SW5030B				BatchID: 35512				Spiked Sample ID: 0805246-006A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	96.6	94.5	2.17	96.1	81	17.1	70 - 130	20	70 - 130	20
MTBE	ND	10	98.7	97.1	1.65	108	95.3	12.6	70 - 130	20	70 - 130	20
Benzene	ND	10	89.3	88.4	1.02	92.1	96.3	4.43	70 - 130	20	70 - 130	20
Toluene	ND	10	80.5	82.7	2.72	89.6	91.4	1.93	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	88.6	88.9	0.340	89.9	91.5	1.79	70 - 130	20	70 - 130	20
Xylenes	ND	30	88.1	87.7	0.459	80.7	80.8	0.0571	70 - 130	20	70 - 130	20
%SS:	95	10	98	95	3.49	103	111	6.64	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 35512 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0805261-001A	05/09/08 1:30 PM	05/13/08	05/13/08 6:16 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0805261

EPA Method SW8015C	Extraction SW3510C				BatchID: 35538			Spiked Sample ID: N/A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	106	112	6.05	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	105	100	4.84	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 35538 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0805261-001A	05/09/08 1:30 PM	05/09/08	05/15/08 7:04 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification N° 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

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AEI Consultants	Client Project ID: #273474; Carnation	Date Sampled: 05/09/08
2500 Camino Diablo, Ste. #200		Date Received: 05/09/08
Walnut Creek, CA 94597	Client Contact: Robert Flory	Date Reported: 05/15/08
	Client P.O.:	Date Completed: 05/14/08

WorkOrder: 0805261

May 15, 2008

Dear Robert:

Enclosed within are:

1) The results of the **1** analyzed sample from your project: **#273474; Carnation,**
2) A QC report for the above sample,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

0805241 RUSH 5 day per email

McCampbell Analytical, Inc.
1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ 5-DAY

GeoTracker EDF ☒ PDF ☒ Excel ☐ Write On (DW) ☐

Report To: Robert Flory	Bill To: AEI Consultants
Company: AEI Consultants	
2500 Camino Diablo	
Walnut Creek, CA 94597	E-Mail: rflory@aeiconsultants.com
Tel: (925) 944-2899, extension 122	Fax: (925) 944-2895
Project #: 273474	Project Name: Carnation
Project Location: 1310 11th Street, Oakland, California	
Sampler Signature:	

SAMPLE ID	LOCATION (Field Point Name)	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED Ice	HCl	HNO_3	Other	BTEX & TPH as Gas (602/8020 + 8015) MTBE	TPH Multirange (8015) -g, -d, -ko, -mo	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	VOCs EPA 8260	BTEX ONLY (EPA 602 / 8020)	Pesticides EPA 608 / 8080	PCBs EPA 608 / 8080	EPA 624 / 8260 (9) Oxygenates & scavengers	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	Other	Other	Other	Other	Comments
WP-1	WP-1	5/7/08	1330	3	40ml VOA	X					X					X			X														Filter Samples for Metals Analysis: Yes / No

	Date:	Time:	Received By:
Relinquished By:	5/7/08	2:38PM	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 7.2°		PRESERVATION	VOA'S	O&G	METALS	OTHER
GOOD CONDITION ✓		APPROPRIATE				
HEAD SPACE ABSENT		CONTAINERS ✓				
DECHLORINATED IN LAB		PERSERVED IN LAB				

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0805261 **ClientCode: AEL**

☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Robert Flory
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
(925) 283-6000 FAX (925) 283-6121

Email: rflory@aeiconsultants.com
cc:
PO:
ProjectNo: #273474; Carnation

Bill to:
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TAT: **5 days**

Date Received: **05/09/2008**
Date Printed: **05/09/2008**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0805261-001	WP-1	Water	5/9/2008 13:30	☐	B	A	A									

Test Legend:

1	8260B_W	2	G-MBTEX_W	3	PREDF REPORT	4		5	
6		7		8		9		10	
11		12							

The following SampID: 001A contains testgroup.

Prepared by: Melissa Valles

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Sample Receipt Checklist

Client Name: **AEI Consultants**

Date and Time Received: **5/9/08 3:17:37 PM**

Project Name: **#273474; Carnation**

Checklist completed and reviewed by: Melissa Valles

WorkOrder N°: **0805261** Matrix Water

Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☐	No ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 7.2°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

Client contacted: Date contacted: Contacted by:

Comments:

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Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants	Client Project ID: #273474; Carnation	Date Sampled: 05/09/08
		Date Received: 05/09/08
2500 Camino Diablo, Ste. #200	Client Contact: Robert Flory	Date Extracted: 05/12/08
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed 05/12/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0805261

Lab ID	0805261-001B
Client ID	WP-1
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Tetrachloride	ND	1.0	0.5
Carbon Disulfide	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	11	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	106	%SS2:	99
%SS3:	103		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

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

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative; q) reported in ppm.

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AEI Consultants	Client Project ID: #273474; Carnation	Date Sampled: 05/09/08
2500 Camino Diablo, Ste. #200		Date Received: 05/09/08
Walnut Creek, CA 94597	Client Contact: Robert Flory	Date Extracted: 05/13/08
	Client P.O.:	Date Analyzed 05/13/08

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method SW5030B Analytical methods SW8015Cm Work Order: 0805261

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	WP-1	W	ND	1	102

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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AEI Consultants	Client Project ID: #273474; Carnation	Date Sampled: 05/09/08
2500 Camino Diablo, Ste. #200		Date Received: 05/09/08
Walnut Creek, CA 94597	Client Contact: Robert Flory	Date Extracted: 05/09/08
	Client P.O.:	Date Analyzed 05/15/08

Total Extractable Petroleum Hydrocarbons*

Extraction method SW3510C Analytical methods SW8015C Work Order: 0805261

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	TPH-Bunker Oil (C10-C36)	DF	% SS
001A	WP-1	W	ND	ND	ND	1	95

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	100	µg/L
	S	NA	NA	NA	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant (cooking oil?); h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) kerosene/kerosene range; l) bunker oil range (?); no recognizable pattern; m) fuel oil; n) stoddard solvent/mineral spirits; p) see attached narrative.

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Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0805261

EPA Method SW8260B	Extraction SW5030B				BatchID: 35516				Spiked Sample ID: 0805270-007B			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	116	116	0	106	104	1.56	70 - 130	30	70 - 130	30
Benzene	ND	10	109	109	0	103	101	2.39	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	103	104	1.17	106	107	0.626	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	103	102	1.25	96.6	93.4	3.41	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	109	110	1.17	98.6	96.6	1.98	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	120	120	0	127	123	3.04	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	93.2	94.3	1.14	93.9	92.4	1.67	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	101	100	0.629	93.7	91.3	2.63	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	112	112	0	107	105	1.78	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	110	110	0	120	115	3.88	70 - 130	30	70 - 130	30
Toluene	ND	10	95.1	95.2	0.00964	83.3	81.5	2.19	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	101	101	0	94	93	1.03	70 - 130	30	70 - 130	30
%SS1:	107	10	101	101	0	103	102	1.30	70 - 130	30	70 - 130	30
%SS2:	99	10	99	98	0.402	96	96	0	70 - 130	30	70 - 130	30
%SS3:	101	10	101	102	0.556	92	91	1.47	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 35516 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0805261-001B	05/09/08 1:30 PM	05/12/08	05/12/08 3:24 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

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QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0805261

EPA Method SW8021B/8015Cm **Extraction SW5030B** **BatchID: 35512** **Spiked Sample ID: 0805246-006A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	96.6	94.5	2.17	96.1	81	17.1	70 - 130	20	70 - 130	20
MTBE	ND	10	98.7	97.1	1.65	108	95.3	12.6	70 - 130	20	70 - 130	20
Benzene	ND	10	89.3	88.4	1.02	92.1	96.3	4.43	70 - 130	20	70 - 130	20
Toluene	ND	10	80.5	82.7	2.72	89.6	91.4	1.93	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	88.6	88.9	0.340	89.9	91.5	1.79	70 - 130	20	70 - 130	20
Xylenes	ND	30	88.1	87.7	0.459	80.7	80.8	0.0571	70 - 130	20	70 - 130	20
%SS:	95	10	98	95	3.49	103	111	6.64	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 35512 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0805261-001A	05/09/08 1:30 PM	05/13/08	05/13/08 6:16 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0805261

EPA Method SW8015C	Extraction SW3510C				BatchID: 35538			Spiked Sample ID: N/A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	106	112	6.05	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	105	100	4.84	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 35538 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0805261-001A	05/09/08 1:30 PM	05/09/08	05/15/08 7:04 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer