May 11, 2007
Project No. 401317001

Mr. Larry Theis
Contra Costa County Public Works Department
255 Glacier Drive
Martinez, California 94553

Subject: Sediment Sampling along Walnut Creek and Grayson Creek, Concord, California

Dear Mr. Theis:

Ninyo & Moore is pleased to provide this report of results from sediment sampling performed along specified reaches of Walnut Creek and Grayson Creek in Concord, California. Sampling was completed on April 23, 2007. Nine locations were sampled on Walnut Creek and one location was sampled in Grayson Creek as generally described in our proposal dated April 17, 2007.

Sediment samples were collected from locations as directed by Contra Costa County Public Works Department (CCCPWD) (Figure 1). Sampling locations along Walnut Creek and Grayson Creek were chosen based on CCCPWD direction and were identified on aerial photos provided by Mr. Theis (CCCPWD). According to CCCPWD representatives, the results of sampling were to be used to aid in the evaluation of sediment disposal methods after the sediments were removed during creek maintenance activities.

The table below summarizes sample locations.

| **Walnut Creek** (Google Earth Photo Scale 1 inch ≈ 0.5 miles) | |
|---|---|
| WC-S1 | West bank of Walnut Creek, approximately 1,000 feet northwest of Waterfront Street bridge crossing |
| WC-S2 | West bank of Walnut Creek, approximately 2,100 feet southeast of Waterfront Street bridge crossing, approximately 1,500 feet northwest of confluence with Pacheco Creek |
| WC-S3 | East bank of Walnut Creek, approximately 500 feet north of Burlington Northern Santa Fe railroad bridge crossing |
| WC-S4 | West bank of Walnut Creek, approximately 1,500 feet south of Burlington Northern Santa Fe railroad bridge crossing |

| | |
|---|---|
| WC-S5 | East bank of Walnut Creek, approximately 1,700 feet north of Imhoff Road bridge crossing |
| WC-S6 | West bank of Grayson Creek, approximately 220 feet southwest of Imhoff Road bridge crossing, approximately 1,100 feet southwest of confluence with Walnut Creek |
| WC-S7 | East bank of Walnut Creek, approximately 300 feet southeast of Marsh Drive bridge crossing |
| WC-S8 | West bank of Walnut Creek, approximately 2,800 feet southeast of Marsh Drive bridge crossing, approximately 500 feet northwest of pipe outfall |
| WC-S9 | East bank of Walnut Creek, approximately 450 feet north of Concord Avenue bridge crossing |
| WC-S10 | East bank of Walnut Creek, approximately 1,300 feet south of Concord Avenue bridge crossing, approximately 500 feet south of confluence with Pine Creek |

Sediment samples (two per sample boring) were collected from depths ranging from 0.5 to 5.0 feet below ground surface (bgs). Procedures followed for sediment sampling are described below.

Glass sample containers were filled with soil, capped, and labeled for subsequent laboratory analysis of CAM-17 metals, total petroleum hydrocarbon (TPH)-diesel, and TPH-motor oil. Once this sample was collected, the boring location was dug out to expose a fresh face for collection of 5-gram aliquots of minimally disturbed soil for the following volatile compound analyses: TPH-gasoline, benzene, ethylbenzene, toluene, and xylene (BTEX). A clean, easy-syringe was pushed into the exposed soils at a depth of between 0.5 and 1.0 feet bgs to obtain each 5-gram soil aliquot. Three 5-gram aliquots were collected to analyze for TPH-gasoline and BTEX analyses. The three 5-gram soil aliquots were ejected into 40 ml glass vials containing sodium bisulfate or methanol preservative. All sample containers were immediately placed in a cooler on ice for storage until samples were received at the laboratory for analyses.

Samples were shipped under chain-of-custody procedures, via overnight courier to Advanced Technology Laboratories in Signal Hill, California, for chemical analyses. Analytical results are summarized in Table 1, and the complete data package is attached to this report.

Results of analysis indicated the presence of detectable concentrations of analytes tested. No concentration was detected in excess of California Code of Regulations Title 22 for hazardous waste, which is used as a criterion for waste disposal.

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities.

The environmental interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the subject site. The testing and analyses have been conducted by an independent laboratory which is certified by the State of California to conduct such tests. Ninyo & Moore has no involvement in, or control over, such testing and analysis. Ninyo & Moore, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

Sincerely,
**NINYO & MOORE**

D. Blair Bridges
Senior Staff Environmental Geologist

Markus B. Niebanck, P.G.
Principal Geologist

DBB/MBN/dhi

Attachment: Figure 1 – Sample Location Map
Data Summary Table
Analytical Data Package

Distribution: (1) Addressee

**LEGEND**

| | |
|---|---|
| WC-S10 ⊕ | Approximate Boring Location |

N

0 .5 Miles

Approximate Scale:
1 inch = .5 Miles

SOURCE: Google Earth Pro, 2006.

Ninyo & Moore

**SAMPLE LOCATION MAP**

CONTRA COSTA COUNTY PUBLIC WORKS
SEDIMENT SAMPLING, WALNUT CREEK
CONCORD, CALIFORNIA

| PROJECT NO. | DATE | FIGURE |
|---|---|---|
| 401317001 | 05/07 | 1 |

# TABLE 1
# WALNUT AND GRAYSON CREEK SEDIMENT SAMPLING RESULTS

| | WC-S1 | WC-S2 | WC-S3 | WC-S4 | WC-S5 | WC-S6* | WC-S7 | WC-S8 | WC-S9 | WC-S10 |
|---|---|---|---|---|---|---|---|---|---|---|
| **CAM-17 Metals** | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Antimony | ND (<2.0) | ND (<2.0) | ND (<2.0) | ND (<2.0) | ND (<2.0) | ND (<2.0) | ND (<2.0) | ND (<2.0) | ND (<2.0) | ND (<2.0) |
| Arsenic | **3.1** | **3.1** | **5.1** | **3.4** | **4.4** | **4.5** | **3.0** | **2.4** | **2.7** | **3.7** |
| Barium | **62** | **52** | **150** | **130** | **120** | **100** | **160** | **95** | **120** | **190** |
| Beryllium | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) |
| Cadmium | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) |
| Chromium | **31** | **20** | **37** | **25** | **23** | **22** | **31** | **19** | **24** | **33** |
| Cobalt | **6.7** | **2.8** | **9.6** | **7.6** | **8.0** | **7.1** | **10** | **6.7** | **9.0** | **11** |
| Copper | **22** | **13** | **24** | **16** | **16** | **19** | **26** | **8.6** | **21** | **18** |
| Lead | **40** | **3.1** | **13** | **12** | **22** | **64** | **13** | **7.3** | **15** | **11** |
| Mercury | **0.10** | **0.14** | ND (<0.10) | ND (<0.10) | ND (<0.10) | **0.17** | ND (<0.10) | ND (<0.10) | **0.15** | ND (<0.10) |
| Molybdenum | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) |
| Nickel | **32** | **16** | **44** | **30** | **29** | **18** | **39** | **22** | **30** | **39** |
| Selenium | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) |
| Silver | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) |
| Thallium | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) | ND (<1.0) |
| Vanadium | **32** | **24** | **39** | **26** | **29** | **32** | **39** | **21** | **33** | **36** |
| Zinc | **58** | **21** | **54** | **44** | **45** | **89** | **62** | **34** | **60** | **52** |
| **Diesel & Motor Oil Range Organics** | | | | | | | | | | |
| Diesel | **2.4** | ND (<1.0) | **3.7** | **2.0** | **2.3** | **3.4** | **2.2** | **2.6** | **4.3** | **2.0** |
| Oil | **3.1** | **2.2** | **8.1** | **5.3** | **3.9** | **9.6** | **5.8** | **4.7** | **12** | **5.9** |
| **Gasoline Range Organics** | | | | | | | | | | |
| Gasoline | ND (<1.8) | ND (<0.98) | ND (<0.96) | ND (<1.1) | ND (<0.84) | ND (<0.91) | ND (<0.73) | ND (<0.1.1) | ND (<0.81) | ND (<0.82) |
| **Volatile Organic Compounds** | µg/Kg | µg/Kg | µg/Kg | µg/Kg | µg/Kg | µg/Kg | µg/Kg | µg/Kg | µg/Kg | µg/Kg |
| Benzene | ND (<8.9) | ND (<4.9) | ND (<4.8) | ND (<5.5) | ND (<4.2) | ND (<4.5) | ND (<3.6) | ND (<5.5) | ND (<4.0) | ND (<4.1) |
| Ethylbenzene | ND (<8.9) | ND (<4.9) | ND (<4.8) | ND (<5.5) | ND (<4.2) | ND (<4.5) | ND (<3.6) | ND (<5.5) | ND (<4.0) | ND (<4.1) |
| m,p Xylene | ND (<18) | ND (<9.8) | ND (<9.6) | ND (<11) | ND (<8.4) | ND (<9.1) | ND (<7.3) | ND (<11) | ND (<8.1) | ND (<8.2) |
| o-Xylene | ND (<8.9) | ND (<4.9) | ND (<4.8) | ND (<5.5) | ND (<4.2) | ND (<4.5) | ND (<3.6) | ND (<5.5) | ND (<4.0) | ND (<4.1) |
| Toluene | ND (<8.9) | ND (<4.9) | ND (<4.8) | ND (<5.5) | ND (<4.2) | ND (<4.5) | ND (<3.6) | ND (<5.5) | ND (<4.0) | ND (<4.1) |

Notes:
mg/kg = milligrams per kilogram
µg/Kg = micrograms per kilogram
<n = not detected above laboratory minimum detection limit of n
Results reported above laboratory minimum detection levels are presented in bold
* All samples were collected on Walnut Creek with the exception of WC-S6 which was sampled on Grayson Creek, approximately 1,100 feet downstream and southwest of confluence with Walnut Creek

**CLIENT:** Ninyo & Moore
**Project:** Walnut Creek, 401317003
**Lab Order:** 091607

# CASE NARRATIVE

All volatile analyses were performed using 5035 preservation requirements. Any high level dilutions were performed on a preserved methanol sample unless otherwise noted.



Advanced Technology Laboratories
*3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040*

# Advanced Technology Laboratories

## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-001

**Client Sample ID:** WC-S1
**Collection Date:** 4/23/2007 9:30:00 AM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| **EPA 8015B(M)** | | | | | | |
| RunID: GC2_070426A QC Batch: E07VS121 PrepDate: 4/24/2007 Analyst: **ML** | | | | | | |
| GRO | ND | 1.8 | | mg/Kg | 1 | 4/26/2007 02:00 PM |
| Surr: Bromofluorobenzene (FID) | 97.1 | 42-149 | | %REC | 1 | 4/26/2007 02:00 PM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/PID** | | | | | | |
| **EPA 8021B** | | | | | | |
| RunID: GC2_070426A QC Batch: E07VS121 PrepDate: 4/24/2007 Analyst: **ML** | | | | | | |
| Benzene | ND | 8.9 | | µg/Kg | 1 | 4/26/2007 02:00 PM |
| Ethylbenzene | ND | 8.9 | | µg/Kg | 1 | 4/26/2007 02:00 PM |
| m,p-Xylene | ND | 18 | | µg/Kg | 1 | 4/26/2007 02:00 PM |
| o-Xylene | ND | 8.9 | | µg/Kg | 1 | 4/26/2007 02:00 PM |
| Toluene | ND | 8.9 | | µg/Kg | 1 | 4/26/2007 02:00 PM |
| Surr: Bromofluorobenzene (PID) | 112 | 49-140 | | %REC | 1 | 4/26/2007 02:00 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

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## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-002

**Client Sample ID:** WC-S2
**Collection Date:** 4/23/2007 10:00:00 AM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| **EPA 8015B(M)** | | | | | | |
| RunID: GC2_070426A QC Batch: E07VS121 PrepDate: 4/24/2007 Analyst: **ML** | | | | | | |
| GRO | ND | 0.98 | | mg/Kg | 1 | 4/26/2007 02:24 PM |
| Surr: Bromofluorobenzene (FID) | 101 | 42-149 | | %REC | 1 | 4/26/2007 02:24 PM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/PID** | | | | | | |
| **EPA 8021B** | | | | | | |
| RunID: GC2_070426A QC Batch: E07VS121 PrepDate: 4/24/2007 Analyst: **ML** | | | | | | |
| Benzene | ND | 4.9 | | µg/Kg | 1 | 4/26/2007 02:24 PM |
| Ethylbenzene | ND | 4.9 | | µg/Kg | 1 | 4/26/2007 02:24 PM |
| m,p-Xylene | ND | 9.8 | | µg/Kg | 1 | 4/26/2007 02:24 PM |
| o-Xylene | ND | 4.9 | | µg/Kg | 1 | 4/26/2007 02:24 PM |
| Toluene | ND | 4.9 | | µg/Kg | 1 | 4/26/2007 02:24 PM |
| Surr: Bromofluorobenzene (PID) | 116 | 49-140 | | %REC | 1 | 4/26/2007 02:24 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

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# Advanced Technology Laboratories

## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-003

**Client Sample ID:** WC-S3
**Collection Date:** 4/23/2007 10:45:00 AM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| **EPA 8015B(M)** | | | | | | |
| RunID: GC2_070426A QC Batch: E07VS121 PrepDate: 4/24/2007 Analyst: **ML** | | | | | | |
| GRO | ND | 0.96 | | mg/Kg | 1 | 4/26/2007 06:01 PM |
| Surr: Bromofluorobenzene (FID) | 95.8 | 42-149 | | %REC | 1 | 4/26/2007 06:01 PM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/PID** | | | | | | |
| **EPA 8021B** | | | | | | |
| RunID: GC2_070426A QC Batch: E07VS121 PrepDate: 4/24/2007 Analyst: **ML** | | | | | | |
| Benzene | ND | 4.8 | | µg/Kg | 1 | 4/26/2007 06:01 PM |
| Ethylbenzene | ND | 4.8 | | µg/Kg | 1 | 4/26/2007 06:01 PM |
| m,p-Xylene | ND | 9.6 | | µg/Kg | 1 | 4/26/2007 06:01 PM |
| o-Xylene | ND | 4.8 | | µg/Kg | 1 | 4/26/2007 06:01 PM |
| Toluene | ND | 4.8 | | µg/Kg | 1 | 4/26/2007 06:01 PM |
| Surr: Bromofluorobenzene (PID) | 111 | 49-140 | | %REC | 1 | 4/26/2007 06:01 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

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# Advanced Technology Laboratories

## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-004

**Client Sample ID:** WC-S4
**Collection Date:** 4/23/2007 12:00:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| **EPA 8015B(M)** | | | | | | |
| RunID: GC2_070426A QC Batch: E07VS121 PrepDate: 4/24/2007 Analyst: **ML** | | | | | | |
| GRO | ND | 1.1 | | mg/Kg | 1 | 4/26/2007 06:25 PM |
| Surr: Bromofluorobenzene (FID) | 99.1 | 42-149 | | %REC | 1 | 4/26/2007 06:25 PM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/PID** | | | | | | |
| **EPA 8021B** | | | | | | |
| RunID: GC2_070426A QC Batch: E07VS121 PrepDate: 4/24/2007 Analyst: **ML** | | | | | | |
| Benzene | ND | 5.5 | | µg/Kg | 1 | 4/26/2007 06:25 PM |
| Ethylbenzene | ND | 5.5 | | µg/Kg | 1 | 4/26/2007 06:25 PM |
| m,p-Xylene | ND | 11 | | µg/Kg | 1 | 4/26/2007 06:25 PM |
| o-Xylene | ND | 5.5 | | µg/Kg | 1 | 4/26/2007 06:25 PM |
| Toluene | ND | 5.5 | | µg/Kg | 1 | 4/26/2007 06:25 PM |
| Surr: Bromofluorobenzene (PID) | 114 | 49-140 | | %REC | 1 | 4/26/2007 06:25 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

# Advanced Technology Laboratories

## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-005

**Client Sample ID:** WC-S5
**Collection Date:** 4/23/2007 11:15:00 AM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| **EPA 8015B(M)** | | | | | | |
| RunID: GC2_070426A QC Batch: E07VS121 PrepDate: 4/24/2007 Analyst: **ML** | | | | | | |
| GRO | ND | 0.84 | | mg/Kg | 1 | 4/26/2007 06:49 PM |
| Surr: Bromofluorobenzene (FID) | 96.8 | 42-149 | | %REC | 1 | 4/26/2007 06:49 PM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/PID** | | | | | | |
| **EPA 8021B** | | | | | | |
| RunID: GC2_070426A QC Batch: E07VS121 PrepDate: 4/24/2007 Analyst: **ML** | | | | | | |
| Benzene | ND | 4.2 | | µg/Kg | 1 | 4/26/2007 06:49 PM |
| Ethylbenzene | ND | 4.2 | | µg/Kg | 1 | 4/26/2007 06:49 PM |
| m,p-Xylene | ND | 8.4 | | µg/Kg | 1 | 4/26/2007 06:49 PM |
| o-Xylene | ND | 4.2 | | µg/Kg | 1 | 4/26/2007 06:49 PM |
| Toluene | ND | 4.2 | | µg/Kg | 1 | 4/26/2007 06:49 PM |
| Surr: Bromofluorobenzene (PID) | 111 | 49-140 | | %REC | 1 | 4/26/2007 06:49 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
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| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

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# Advanced Technology Laboratories

## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-006

**Client Sample ID:** WC-S6
**Collection Date:** 4/23/2007 12:30:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| **EPA 8015B(M)** | | | | | | |
| RunID: GC2_070426A QC Batch: E07VS121 PrepDate: 4/24/2007 Analyst: **ML** | | | | | | |
| GRO | ND | 0.91 | | mg/Kg | 1 | 4/26/2007 07:13 PM |
| Surr: Bromofluorobenzene (FID) | 98.9 | 42-149 | | %REC | 1 | 4/26/2007 07:13 PM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/PID** | | | | | | |
| **EPA 8021B** | | | | | | |
| RunID: GC2_070426A QC Batch: E07VS121 PrepDate: 4/24/2007 Analyst: **ML** | | | | | | |
| Benzene | ND | 4.5 | | µg/Kg | 1 | 4/26/2007 07:13 PM |
| Ethylbenzene | ND | 4.5 | | µg/Kg | 1 | 4/26/2007 07:13 PM |
| m,p-Xylene | ND | 9.1 | | µg/Kg | 1 | 4/26/2007 07:13 PM |
| o-Xylene | ND | 4.5 | | µg/Kg | 1 | 4/26/2007 07:13 PM |
| Toluene | ND | 4.5 | | µg/Kg | 1 | 4/26/2007 07:13 PM |
| Surr: Bromofluorobenzene (PID) | 114 | 49-140 | | %REC | 1 | 4/26/2007 07:13 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

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# Advanced Technology Laboratories

## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-007

**Client Sample ID:** WC-S7
**Collection Date:** 4/23/2007 1:00:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| **EPA 8015B(M)** | | | | | | |
| RunID: GC2_070426A QC Batch: E07VS121 PrepDate: 4/24/2007 Analyst: **ML** | | | | | | |
| GRO | ND | 0.73 | | mg/Kg | 1 | 4/26/2007 07:37 PM |
| Surr: Bromofluorobenzene (FID) | 96.7 | 42-149 | | %REC | 1 | 4/26/2007 07:37 PM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/PID** | | | | | | |
| **EPA 8021B** | | | | | | |
| RunID: GC2_070426A QC Batch: E07VS121 PrepDate: 4/24/2007 Analyst: **ML** | | | | | | |
| Benzene | ND | 3.6 | | µg/Kg | 1 | 4/26/2007 07:37 PM |
| Ethylbenzene | ND | 3.6 | | µg/Kg | 1 | 4/26/2007 07:37 PM |
| m,p-Xylene | ND | 7.3 | | µg/Kg | 1 | 4/26/2007 07:37 PM |
| o-Xylene | ND | 3.6 | | µg/Kg | 1 | 4/26/2007 07:37 PM |
| Toluene | ND | 3.6 | | µg/Kg | 1 | 4/26/2007 07:37 PM |
| Surr: Bromofluorobenzene (PID) | 112 | 49-140 | | %REC | 1 | 4/26/2007 07:37 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

Advanced Technology Laboratories
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## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-008

**Client Sample ID:** WC-S8
**Collection Date:** 4/23/2007 1:30:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| **EPA 8015B(M)** | | | | | | |
| RunID: GC2_070427B QC Batch: E07VS124 PrepDate: 4/24/2007 Analyst: **ML** | | | | | | |
| GRO | ND | 1.1 | | mg/Kg | 1 | 4/27/2007 08:31 PM |
| Surr: Bromofluorobenzene (FID) | 94.8 | 42-149 | | %REC | 1 | 4/27/2007 08:31 PM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/PID** | | | | | | |
| **EPA 8021B** | | | | | | |
| RunID: GC2_070427B QC Batch: E07VS124 PrepDate: 4/24/2007 Analyst: **ML** | | | | | | |
| Benzene | ND | 5.5 | | µg/Kg | 1 | 4/27/2007 08:31 PM |
| Ethylbenzene | ND | 5.5 | | µg/Kg | 1 | 4/27/2007 08:31 PM |
| m,p-Xylene | ND | 11 | | µg/Kg | 1 | 4/27/2007 08:31 PM |
| o-Xylene | ND | 5.5 | | µg/Kg | 1 | 4/27/2007 08:31 PM |
| Toluene | ND | 5.5 | | µg/Kg | 1 | 4/27/2007 08:31 PM |
| Surr: Bromofluorobenzene (PID) | 112 | 49-140 | | %REC | 1 | 4/27/2007 08:31 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

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# Advanced Technology Laboratories

## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-009

**Client Sample ID:** WC-S9
**Collection Date:** 4/23/2007 2:00:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| **EPA 8015B(M)** | | | | | | |
| RunID: GC2_070427B QC Batch: E07VS124 PrepDate: 4/24/2007 Analyst: **ML** | | | | | | |
| GRO | ND | 0.81 | | mg/Kg | 1 | 4/27/2007 08:55 PM |
| Surr: Bromofluorobenzene (FID) | 101 | 42-149 | | %REC | 1 | 4/27/2007 08:55 PM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/PID** | | | | | | |
| **EPA 8021B** | | | | | | |
| RunID: GC2_070427B QC Batch: E07VS124 PrepDate: 4/24/2007 Analyst: **ML** | | | | | | |
| Benzene | ND | 4.0 | | µg/Kg | 1 | 4/27/2007 08:55 PM |
| Ethylbenzene | ND | 4.0 | | µg/Kg | 1 | 4/27/2007 08:55 PM |
| m,p-Xylene | ND | 8.1 | | µg/Kg | 1 | 4/27/2007 08:55 PM |
| o-Xylene | ND | 4.0 | | µg/Kg | 1 | 4/27/2007 08:55 PM |
| Toluene | ND | 4.0 | | µg/Kg | 1 | 4/27/2007 08:55 PM |
| Surr: Bromofluorobenzene (PID) | 120 | 49-140 | | %REC | 1 | 4/27/2007 08:55 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

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# Advanced Technology Laboratories

## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-010

**Client Sample ID:** WC-S10
**Collection Date:** 4/23/2007 2:30:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| **EPA 8015B(M)** | | | | | | |
| RunID: GC2_070427B | QC Batch: E07VS124 | | | PrepDate: 4/24/2007 | | Analyst: **ML** |
| GRO | ND | 0.82 | | mg/Kg | 1 | 4/27/2007 09:19 PM |
| Surr: Bromofluorobenzene (FID) | 94.7 | 42-149 | | %REC | 1 | 4/27/2007 09:19 PM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/PID** | | | | | | |
| **EPA 8021B** | | | | | | |
| RunID: GC2_070427B | QC Batch: E07VS124 | | | PrepDate: 4/24/2007 | | Analyst: **ML** |
| Benzene | ND | 4.1 | | µg/Kg | 1 | 4/27/2007 09:19 PM |
| Ethylbenzene | ND | 4.1 | | µg/Kg | 1 | 4/27/2007 09:19 PM |
| m,p-Xylene | ND | 8.2 | | µg/Kg | 1 | 4/27/2007 09:19 PM |
| o-Xylene | ND | 4.1 | | µg/Kg | 1 | 4/27/2007 09:19 PM |
| Toluene | ND | 4.1 | | µg/Kg | 1 | 4/27/2007 09:19 PM |
| Surr: Bromofluorobenzene (PID) | 112 | 49-140 | | %REC | 1 | 4/27/2007 09:19 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

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# Advanced Technology Laboratories

## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-011

**Client Sample ID:** Composite of WC-S1
**Collection Date:** 4/23/2007 9:30:00 AM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS** | | | | | | |
| | **EPA 3050B** | | | **EPA 6010B** | | |
| RunID: ICP8_070430B | QC Batch: 35470 | | | PrepDate: | 4/27/2007 | Analyst: **RQ** |
| Antimony | ND | 2.0 | | mg/Kg | 1 | 4/30/2007 01:06 PM |
| Arsenic | 3.1 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:06 PM |
| Barium | 62 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:06 PM |
| Beryllium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:06 PM |
| Cadmium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:06 PM |
| Chromium | 31 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:06 PM |
| Cobalt | 6.7 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:06 PM |
| Copper | 22 | 2.0 | | mg/Kg | 1 | 4/30/2007 01:06 PM |
| Lead | 40 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:06 PM |
| Molybdenum | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:06 PM |
| Nickel | 32 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:06 PM |
| Selenium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:06 PM |
| Silver | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:06 PM |
| Thallium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:06 PM |
| Vanadium | 32 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:06 PM |
| Zinc | 58 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:06 PM |
| **DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC7_070427B | QC Batch: 35483 | | | PrepDate: | 4/27/2007 | Analyst: **CBR** |
| DRO | 2.4 | 1.0 | | mg/Kg | 1 | 4/28/2007 04:24 AM |
| ORO | 3.1 | 1.0 | | mg/Kg | 1 | 4/28/2007 04:24 AM |
| Surr: p-Terphenyl | 97.5 | 27-110 | | %REC | 1 | 4/28/2007 04:24 AM |
| **MERCURY BY COLD VAPOR TECHNIQUE** | | | | | | |
| | **EPA 7471** | | | **EPA 7471A** | | |
| RunID: AA5_070427E | QC Batch: 35515 | | | PrepDate: | 4/27/2007 | Analyst: **EKS** |
| Mercury | 0.10 | 0.10 | | mg/Kg | 1 | 4/27/2007 |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

# Advanced Technology Laboratories

## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-012

**Client Sample ID:** Composite of WC-S2
**Collection Date:** 4/23/2007 10:00:00 AM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS** | | | | | | |
| | **EPA 3050B** | | | **EPA 6010B** | | |
| RunID: ICP8_070430B | QC Batch: 35470 | | | PrepDate: | 4/27/2007 | Analyst: **RQ** |
| Antimony | ND | 2.0 | | mg/Kg | 1 | 4/30/2007 01:10 PM |
| Arsenic | 3.1 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:10 PM |
| Barium | 52 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:10 PM |
| Beryllium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:10 PM |
| Cadmium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:10 PM |
| Chromium | 20 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:10 PM |
| Cobalt | 2.8 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:10 PM |
| Copper | 13 | 2.0 | | mg/Kg | 1 | 4/30/2007 01:10 PM |
| Lead | 3.1 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:10 PM |
| Molybdenum | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:10 PM |
| Nickel | 16 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:10 PM |
| Selenium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:10 PM |
| Silver | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:10 PM |
| Thallium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:10 PM |
| Vanadium | 24 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:10 PM |
| Zinc | 21 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:10 PM |
| **DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC7_BACK_070427A | QC Batch: 35483 | | | PrepDate: | 4/27/2007 | Analyst: **CBR** |
| DRO | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 11:53 AM |
| ORO | 2.2 | 1.0 | | mg/Kg | 1 | 4/30/2007 11:53 AM |
| Surr: p-Terphenyl | 96.3 | 27-110 | | %REC | 1 | 4/30/2007 11:53 AM |
| **MERCURY BY COLD VAPOR TECHNIQUE** | | | | | | |
| | **EPA 7471** | | | **EPA 7471A** | | |
| RunID: AA5_070427E | QC Batch: 35515 | | | PrepDate: | 4/27/2007 | Analyst: **EKS** |
| Mercury | 0.14 | 0.10 | | mg/Kg | 1 | 4/27/2007 |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

# Advanced Technology Laboratories

## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-013

**Client Sample ID:** Composite of WC-S3
**Collection Date:** 4/23/2007 10:45:00 AM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS** | | | | | | |
| | **EPA 3050B** | | | **EPA 6010B** | | |
| RunID: ICP8_070430B | QC Batch: 35470 | | | PrepDate: | 4/27/2007 | Analyst: **RQ** |
| Antimony | ND | 2.0 | | mg/Kg | 1 | 4/30/2007 01:15 PM |
| Arsenic | 5.1 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:15 PM |
| Barium | 150 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:15 PM |
| Beryllium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:15 PM |
| Cadmium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:15 PM |
| Chromium | 37 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:15 PM |
| Cobalt | 9.6 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:15 PM |
| Copper | 24 | 2.0 | | mg/Kg | 1 | 4/30/2007 01:15 PM |
| Lead | 13 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:15 PM |
| Molybdenum | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:15 PM |
| Nickel | 44 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:15 PM |
| Selenium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:15 PM |
| Silver | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:15 PM |
| Thallium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:15 PM |
| Vanadium | 39 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:15 PM |
| Zinc | 54 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:15 PM |
| **DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC7_070427B | QC Batch: 35483 | | | PrepDate: | 4/27/2007 | Analyst: **CBR** |
| DRO | 3.7 | 1.0 | | mg/Kg | 1 | 4/28/2007 05:14 AM |
| ORO | 8.1 | 1.0 | | mg/Kg | 1 | 4/28/2007 05:14 AM |
| Surr: p-Terphenyl | 98.6 | 27-110 | | %REC | 1 | 4/28/2007 05:14 AM |
| **MERCURY BY COLD VAPOR TECHNIQUE** | | | | | | |
| | **EPA 7471** | | | **EPA 7471A** | | |
| RunID: AA5_070427E | QC Batch: 35515 | | | PrepDate: | 4/27/2007 | Analyst: **EKS** |
| Mercury | ND | 0.10 | | mg/Kg | 1 | 4/27/2007 |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

# Advanced Technology Laboratories

## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-014

**Client Sample ID:** Composite of WC-S4
**Collection Date:** 4/23/2007 12:00:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS** | | | | | | |
| | **EPA 3050B** | | | **EPA 6010B** | | |
| RunID: ICP8_070430B | QC Batch: 35470 | | | PrepDate: | 4/27/2007 | Analyst: **RQ** |
| Antimony | ND | 2.0 | | mg/Kg | 1 | 4/30/2007 01:19 PM |
| Arsenic | 3.4 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:19 PM |
| Barium | 130 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:19 PM |
| Beryllium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:19 PM |
| Cadmium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:19 PM |
| Chromium | 25 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:19 PM |
| Cobalt | 7.6 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:19 PM |
| Copper | 16 | 2.0 | | mg/Kg | 1 | 4/30/2007 01:19 PM |
| Lead | 12 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:19 PM |
| Molybdenum | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:19 PM |
| Nickel | 30 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:19 PM |
| Selenium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:19 PM |
| Silver | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:19 PM |
| Thallium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:19 PM |
| Vanadium | 26 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:19 PM |
| Zinc | 44 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:19 PM |
| **DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC7_070427B | QC Batch: 35483 | | | PrepDate: | 4/27/2007 | Analyst: **CBR** |
| DRO | 2.0 | 1.0 | | mg/Kg | 1 | 4/28/2007 05:40 AM |
| ORO | 5.3 | 1.0 | | mg/Kg | 1 | 4/28/2007 05:40 AM |
| Surr: p-Terphenyl | 92.8 | 27-110 | | %REC | 1 | 4/28/2007 05:40 AM |
| **MERCURY BY COLD VAPOR TECHNIQUE** | | | | | | |
| | **EPA 7471** | | | **EPA 7471A** | | |
| RunID: AA5_070427E | QC Batch: 35515 | | | PrepDate: | 4/27/2007 | Analyst: **EKS** |
| Mercury | ND | 0.10 | | mg/Kg | 1 | 4/27/2007 |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

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# Advanced Technology Laboratories

## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-015

**Client Sample ID:** Composite of WC-S5
**Collection Date:** 4/23/2007 11:15:00 AM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS** | | | | | | |
| | **EPA 3050B** | | | **EPA 6010B** | | |
| RunID: ICP8_070430B | QC Batch: 35470 | | | PrepDate: | 4/27/2007 | Analyst: **RQ** |
| Antimony | ND | 2.0 | | mg/Kg | 1 | 4/30/2007 01:24 PM |
| Arsenic | 4.4 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:24 PM |
| Barium | 120 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:24 PM |
| Beryllium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:24 PM |
| Cadmium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:24 PM |
| Chromium | 23 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:24 PM |
| Cobalt | 8.0 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:24 PM |
| Copper | 16 | 2.0 | | mg/Kg | 1 | 4/30/2007 01:24 PM |
| Lead | 22 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:24 PM |
| Molybdenum | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:24 PM |
| Nickel | 29 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:24 PM |
| Selenium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:24 PM |
| Silver | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:24 PM |
| Thallium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:24 PM |
| Vanadium | 29 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:24 PM |
| Zinc | 45 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:24 PM |
| **DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC7_070427B | QC Batch: 35483 | | | PrepDate: | 4/27/2007 | Analyst: **CBR** |
| DRO | 2.3 | 1.0 | | mg/Kg | 1 | 4/28/2007 04:49 AM |
| ORO | 3.9 | 1.0 | | mg/Kg | 1 | 4/28/2007 04:49 AM |
| Surr: p-Terphenyl | 101 | 27-110 | | %REC | 1 | 4/28/2007 04:49 AM |
| **MERCURY BY COLD VAPOR TECHNIQUE** | | | | | | |
| | **EPA 7471** | | | **EPA 7471A** | | |
| RunID: AA5_070427E | QC Batch: 35515 | | | PrepDate: | 4/27/2007 | Analyst: **EKS** |
| Mercury | ND | 0.10 | | mg/Kg | 1 | 4/27/2007 |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

Advanced Technology Laboratories
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# Advanced Technology Laboratories

## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-016

**Client Sample ID:** Composite of WC-S6
**Collection Date:** 4/23/2007 12:30:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS** | | | | | | |
| | **EPA 3050B** | | | **EPA 6010B** | | |
| RunID: ICP8_070430B | QC Batch: 35470 | | | PrepDate: | 4/27/2007 | Analyst: **RQ** |
| Antimony | ND | 2.0 | | mg/Kg | 1 | 4/30/2007 01:28 PM |
| Arsenic | 4.5 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:28 PM |
| Barium | 100 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:28 PM |
| Beryllium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:28 PM |
| Cadmium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:28 PM |
| Chromium | 22 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:28 PM |
| Cobalt | 7.1 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:28 PM |
| Copper | 19 | 2.0 | | mg/Kg | 1 | 4/30/2007 01:28 PM |
| Lead | 64 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:28 PM |
| Molybdenum | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:28 PM |
| Nickel | 18 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:28 PM |
| Selenium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:28 PM |
| Silver | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:28 PM |
| Thallium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:28 PM |
| Vanadium | 32 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:28 PM |
| Zinc | 89 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:28 PM |
| **DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC7_070427B | QC Batch: 35483 | | | PrepDate: | 4/27/2007 | Analyst: **CBR** |
| DRO | 3.4 | 1.0 | | mg/Kg | 1 | 4/28/2007 06:56 AM |
| ORO | 9.6 | 1.0 | | mg/Kg | 1 | 4/28/2007 06:56 AM |
| Surr: p-Terphenyl | 109 | 27-110 | | %REC | 1 | 4/28/2007 06:56 AM |
| **MERCURY BY COLD VAPOR TECHNIQUE** | | | | | | |
| | **EPA 7471** | | | **EPA 7471A** | | |
| RunID: AA5_070427E | QC Batch: 35515 | | | PrepDate: | 4/27/2007 | Analyst: **EKS** |
| Mercury | 0.17 | 0.10 | | mg/Kg | 1 | 4/27/2007 |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

# Advanced Technology Laboratories

## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-017

**Client Sample ID:** Composite of WC-S7
**Collection Date:** 4/23/2007 1:00:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS** | | | | | | |
| | **EPA 3050B** | | | **EPA 6010B** | | |
| RunID: ICP8_070430B | QC Batch: 35470 | | | PrepDate: | 4/27/2007 | Analyst: **RQ** |
| Antimony | ND | 2.0 | | mg/Kg | 1 | 4/30/2007 01:33 PM |
| Arsenic | 3.0 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:33 PM |
| Barium | 160 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:33 PM |
| Beryllium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:33 PM |
| Cadmium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:33 PM |
| Chromium | 31 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:33 PM |
| Cobalt | 10 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:33 PM |
| Copper | 26 | 2.0 | | mg/Kg | 1 | 4/30/2007 01:33 PM |
| Lead | 13 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:33 PM |
| Molybdenum | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:33 PM |
| Nickel | 39 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:33 PM |
| Selenium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:33 PM |
| Silver | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:33 PM |
| Thallium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:33 PM |
| Vanadium | 39 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:33 PM |
| Zinc | 62 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:33 PM |
| **DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC7_070427B | QC Batch: 35483 | | | PrepDate: | 4/27/2007 | Analyst: **CBR** |
| DRO | 2.2 | 1.0 | | mg/Kg | 1 | 4/28/2007 06:31 AM |
| ORO | 5.8 | 1.0 | | mg/Kg | 1 | 4/28/2007 06:31 AM |
| Surr: p-Terphenyl | 108 | 27-110 | | %REC | 1 | 4/28/2007 06:31 AM |
| **MERCURY BY COLD VAPOR TECHNIQUE** | | | | | | |
| | **EPA 7471** | | | **EPA 7471A** | | |
| RunID: AA5_070427E | QC Batch: 35515 | | | PrepDate: | 4/27/2007 | Analyst: **EKS** |
| Mercury | ND | 0.10 | | mg/Kg | 1 | 4/27/2007 |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

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## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-018

**Client Sample ID:** Composite of WC-S8
**Collection Date:** 4/23/2007 1:30:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS** | | | | | | |
| | **EPA 3050B** | | | **EPA 6010B** | | |
| RunID: ICP8_070430B | QC Batch: 35470 | | | PrepDate: | 4/27/2007 | Analyst: **RQ** |
| Antimony | ND | 2.0 | | mg/Kg | 1 | 4/30/2007 01:37 PM |
| Arsenic | 2.4 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:37 PM |
| Barium | 95 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:37 PM |
| Beryllium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:37 PM |
| Cadmium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:37 PM |
| Chromium | 19 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:37 PM |
| Cobalt | 6.7 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:37 PM |
| Copper | 8.6 | 2.0 | | mg/Kg | 1 | 4/30/2007 01:37 PM |
| Lead | 7.3 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:37 PM |
| Molybdenum | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:37 PM |
| Nickel | 22 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:37 PM |
| Selenium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:37 PM |
| Silver | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:37 PM |
| Thallium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:37 PM |
| Vanadium | 21 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:37 PM |
| Zinc | 34 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:37 PM |
| **DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC7_070427B | QC Batch: 35483 | | | PrepDate: | 4/27/2007 | Analyst: **CBR** |
| DRO | 2.6 | 1.0 | | mg/Kg | 1 | 4/28/2007 06:05 AM |
| ORO | 4.7 | 1.0 | | mg/Kg | 1 | 4/28/2007 06:05 AM |
| Surr: p-Terphenyl | 94.7 | 27-110 | | %REC | 1 | 4/28/2007 06:05 AM |
| **MERCURY BY COLD VAPOR TECHNIQUE** | | | | | | |
| | **EPA 7471** | | | **EPA 7471A** | | |
| RunID: AA5_070427E | QC Batch: 35515 | | | PrepDate: | 4/27/2007 | Analyst: **EKS** |
| Mercury | ND | 0.10 | | mg/Kg | 1 | 4/27/2007 |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

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## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-019

**Client Sample ID:** Composite of WC-S9
**Collection Date:** 4/23/2007 2:00:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS** | | | | | | |
| | **EPA 3050B** | | | **EPA 6010B** | | |
| RunID: ICP8_070430B | QC Batch: 35470 | | | PrepDate: | 4/27/2007 | Analyst: **RQ** |
| Antimony | ND | 2.0 | | mg/Kg | 1 | 4/30/2007 01:42 PM |
| Arsenic | 2.7 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:42 PM |
| Barium | 120 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:42 PM |
| Beryllium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:42 PM |
| Cadmium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:42 PM |
| Chromium | 24 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:42 PM |
| Cobalt | 9.0 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:42 PM |
| Copper | 21 | 2.0 | | mg/Kg | 1 | 4/30/2007 01:42 PM |
| Lead | 15 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:42 PM |
| Molybdenum | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:42 PM |
| Nickel | 30 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:42 PM |
| Selenium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:42 PM |
| Silver | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:42 PM |
| Thallium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:42 PM |
| Vanadium | 33 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:42 PM |
| Zinc | 60 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:42 PM |
| **DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC7_BACK_070427A | QC Batch: 35483 | | | PrepDate: | 4/27/2007 | Analyst: **CBR** |
| DRO | 4.3 | 1.0 | | mg/Kg | 1 | 4/30/2007 12:19 PM |
| ORO | 12 | 1.0 | | mg/Kg | 1 | 4/30/2007 12:19 PM |
| Surr: p-Terphenyl | 104 | 27-110 | | %REC | 1 | 4/30/2007 12:19 PM |
| **MERCURY BY COLD VAPOR TECHNIQUE** | | | | | | |
| | **EPA 7471** | | | **EPA 7471A** | | |
| RunID: AA5_070427E | QC Batch: 35515 | | | PrepDate: | 4/27/2007 | Analyst: **EKS** |
| Mercury | 0.15 | 0.10 | | mg/Kg | 1 | 4/27/2007 |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

# Advanced Technology Laboratories

## ANALYTICAL RESULTS

**Print Date:** *30-Apr-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 091607
**Project:** Walnut Creek, 401317003
**Lab ID:** 091607-020

**Client Sample ID:** Composite of WC-S10
**Collection Date:** 4/23/2007 2:30:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS** | | | | | | |
| | **EPA 3050B** | | | **EPA 6010B** | | |
| RunID: ICP8_070430B | QC Batch: 35470 | | | PrepDate: | 4/27/2007 | Analyst: **RQ** |
| Antimony | ND | 2.0 | | mg/Kg | 1 | 4/30/2007 01:46 PM |
| Arsenic | 3.7 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:46 PM |
| Barium | 190 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:46 PM |
| Beryllium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:46 PM |
| Cadmium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:46 PM |
| Chromium | 33 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:46 PM |
| Cobalt | 11 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:46 PM |
| Copper | 18 | 2.0 | | mg/Kg | 1 | 4/30/2007 01:46 PM |
| Lead | 11 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:46 PM |
| Molybdenum | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:46 PM |
| Nickel | 39 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:46 PM |
| Selenium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:46 PM |
| Silver | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:46 PM |
| Thallium | ND | 1.0 | | mg/Kg | 1 | 4/30/2007 01:46 PM |
| Vanadium | 36 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:46 PM |
| Zinc | 52 | 1.0 | | mg/Kg | 1 | 4/30/2007 01:46 PM |
| **DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC7_070427B | QC Batch: 35483 | | | PrepDate: | 4/27/2007 | Analyst: **CBR** |
| DRO | 2.0 | 1.0 | | mg/Kg | 1 | 4/28/2007 07:47 AM |
| ORO | 5.9 | 1.0 | | mg/Kg | 1 | 4/28/2007 07:47 AM |
| Surr: p-Terphenyl | 110 | 27-110 | | %REC | 1 | 4/28/2007 07:47 AM |
| **MERCURY BY COLD VAPOR TECHNIQUE** | | | | | | |
| | **EPA 7471** | | | **EPA 7471A** | | |
| RunID: AA5_070427E | QC Batch: 35515 | | | PrepDate: | 4/27/2007 | Analyst: **EKS** |
| Mercury | ND | 0.10 | | mg/Kg | 1 | 4/27/2007 |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

Advanced Technology Laboratories
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**CLIENT:** Ninyo & Moore
**Work Order:** 091607
**Project:** Walnut Creek, 401317003

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 6010_S**

Sample ID: **MB-35470** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78504**
Client ID: **PBS** Batch ID: **35470** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/27/2007** SeqNo: **1185545**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | 2.0 | | | | | | | | | |
| Arsenic | 0.316 | 1.0 | | | | | | | | | |
| Barium | ND | 1.0 | | | | | | | | | |
| Beryllium | ND | 1.0 | | | | | | | | | |
| Cadmium | ND | 1.0 | | | | | | | | | |
| Chromium | ND | 1.0 | | | | | | | | | |
| Cobalt | 0.037 | 1.0 | | | | | | | | | |
| Copper | ND | 2.0 | | | | | | | | | |
| Lead | ND | 1.0 | | | | | | | | | |
| Molybdenum | ND | 1.0 | | | | | | | | | |
| Nickel | ND | 1.0 | | | | | | | | | |
| Selenium | ND | 1.0 | | | | | | | | | |
| Silver | ND | 1.0 | | | | | | | | | |
| Thallium | ND | 1.0 | | | | | | | | | |
| Vanadium | ND | 1.0 | | | | | | | | | |
| Zinc | ND | 1.0 | | | | | | | | | |

Sample ID: **LCS-35470** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78504**
Client ID: **LCSS** Batch ID: **35470** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/27/2007** SeqNo: **1185546**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 46.537 | 2.0 | 50.00 | 0 | 93.1 | 80 | 120 | | | | |
| Arsenic | 49.384 | 1.0 | 50.00 | 0.3162 | 98.1 | 80 | 120 | | | | |
| Barium | 47.116 | 1.0 | 50.00 | 0 | 94.2 | 80 | 120 | | | | |
| Beryllium | 45.619 | 1.0 | 50.00 | 0 | 91.2 | 80 | 120 | | | | |
| Cadmium | 44.728 | 1.0 | 50.00 | 0 | 89.5 | 80 | 120 | | | | |
| Chromium | 42.906 | 1.0 | 50.00 | 0 | 85.8 | 80 | 120 | | | | |
| Cobalt | 55.128 | 1.0 | 50.00 | 0.03686 | 110 | 80 | 120 | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

**CLIENT:** Ninyo & Moore
**Work Order:** 091607
**Project:** Walnut Creek, 401317003

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 6010_S**

Sample ID: **LCS-35470** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78504**
Client ID: **LCSS** Batch ID: **35470** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/27/2007** SeqNo: **1185546**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Copper | 53.105 | 2.0 | 50.00 | 0 | 106 | 80 | 120 | | | | |
| Lead | 45.526 | 1.0 | 50.00 | 0 | 91.1 | 80 | 120 | | | | |
| Molybdenum | 46.604 | 1.0 | 50.00 | 0 | 93.2 | 80 | 120 | | | | |
| Nickel | 43.538 | 1.0 | 50.00 | 0 | 87.1 | 80 | 120 | | | | |
| Selenium | 43.602 | 1.0 | 50.00 | 0 | 87.2 | 80 | 120 | | | | |
| Silver | 45.029 | 1.0 | 50.00 | 0 | 90.1 | 80 | 120 | | | | |
| Thallium | 43.872 | 1.0 | 50.00 | 0 | 87.7 | 80 | 120 | | | | |
| Vanadium | 46.291 | 1.0 | 50.00 | 0 | 92.6 | 80 | 120 | | | | |
| Zinc | 44.448 | 1.0 | 50.00 | 0 | 88.9 | 80 | 120 | | | | |

Sample ID: **091673-005AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78504**
Client ID: **ZZZZZZ** Batch ID: **35470** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/27/2007** SeqNo: **1185552**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 82.995 | 2.0 | 125.0 | 0 | 66.4 | 24 | 110 | | | | |
| Arsenic | 105.783 | 1.0 | 125.0 | 0 | 84.6 | 61 | 104 | | | | |
| Barium | 208.196 | 1.0 | 125.0 | 94.13 | 91.3 | 35 | 135 | | | | |
| Beryllium | 105.488 | 1.0 | 125.0 | 0 | 84.4 | 64 | 104 | | | | |
| Cadmium | 102.367 | 1.0 | 125.0 | 0.1456 | 81.8 | 65 | 106 | | | | |
| Chromium | 107.769 | 1.0 | 125.0 | 5.075 | 82.2 | 47 | 122 | | | | |
| Cobalt | 107.771 | 1.0 | 125.0 | 5.248 | 82.0 | 55 | 111 | | | | |
| Copper | 104.724 | 2.0 | 125.0 | 2.193 | 82.0 | 52 | 132 | | | | |
| Lead | 102.004 | 1.0 | 125.0 | 2.258 | 79.8 | 37 | 128 | | | | |
| Molybdenum | 105.403 | 1.0 | 125.0 | 0 | 84.3 | 58 | 108 | | | | |
| Nickel | 104.444 | 1.0 | 125.0 | 3.234 | 81.0 | 48 | 120 | | | | |
| Selenium | 99.575 | 1.0 | 125.0 | 0 | 79.7 | 57 | 105 | | | | |
| Silver | 95.540 | 1.0 | 125.0 | 0 | 76.4 | 44 | 116 | | | | |
| Thallium | 76.892 | 1.0 | 125.0 | 0 | 61.5 | 55 | 103 | | | | |
| Vanadium | 122.724 | 1.0 | 125.0 | 16.36 | 85.1 | 57 | 116 | | | | |
| Zinc | 141.399 | 1.0 | 125.0 | 36.13 | 84.2 | 41 | 120 | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

**CLIENT:** Ninyo & Moore
**Work Order:** 091607
**Project:** Walnut Creek, 401317003

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 6010_S**

Sample ID: **091673-005AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78504**
Client ID: **ZZZZZZ** Batch ID: **35470** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/27/2007** SeqNo: **1185553**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 85.646 | 2.0 | 125.0 | 0 | 68.5 | 24 | 110 | 82.99 | 3.14 | 20 | |
| Arsenic | 109.089 | 1.0 | 125.0 | 0 | 87.3 | 61 | 104 | 105.8 | 3.08 | 20 | |
| Barium | 216.457 | 1.0 | 125.0 | 94.13 | 97.9 | 35 | 135 | 208.2 | 3.89 | 20 | |
| Beryllium | 107.968 | 1.0 | 125.0 | 0 | 86.4 | 64 | 104 | 105.5 | 2.32 | 20 | |
| Cadmium | 105.624 | 1.0 | 125.0 | 0.1456 | 84.4 | 65 | 106 | 102.4 | 3.13 | 20 | |
| Chromium | 111.079 | 1.0 | 125.0 | 5.075 | 84.8 | 47 | 122 | 107.8 | 3.02 | 20 | |
| Cobalt | 111.541 | 1.0 | 125.0 | 5.248 | 85.0 | 55 | 111 | 107.8 | 3.44 | 20 | |
| Copper | 108.256 | 2.0 | 125.0 | 2.193 | 84.9 | 52 | 132 | 104.7 | 3.32 | 20 | |
| Lead | 105.180 | 1.0 | 125.0 | 2.258 | 82.3 | 37 | 128 | 102.0 | 3.07 | 20 | |
| Molybdenum | 108.808 | 1.0 | 125.0 | 0 | 87.0 | 58 | 108 | 105.4 | 3.18 | 20 | |
| Nickel | 107.731 | 1.0 | 125.0 | 3.234 | 83.6 | 48 | 120 | 104.4 | 3.10 | 20 | |
| Selenium | 102.876 | 1.0 | 125.0 | 0 | 82.3 | 57 | 105 | 99.57 | 3.26 | 20 | |
| Silver | 98.658 | 1.0 | 125.0 | 0 | 78.9 | 44 | 116 | 95.54 | 3.21 | 20 | |
| Thallium | 79.553 | 1.0 | 125.0 | 0 | 63.6 | 55 | 103 | 76.89 | 3.40 | 20 | |
| Vanadium | 126.400 | 1.0 | 125.0 | 16.36 | 88.0 | 57 | 116 | 122.7 | 2.95 | 20 | |
| Zinc | 146.712 | 1.0 | 125.0 | 36.13 | 88.5 | 41 | 120 | 141.4 | 3.69 | 20 | |

Sample ID: **MB-35470** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78587**
Client ID: **PBS** Batch ID: **35470** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/30/2007** SeqNo: **1187051**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 0.305 | 2.0 | | | | | | | | | |
| Arsenic | ND | 1.0 | | | | | | | | | |
| Barium | ND | 1.0 | | | | | | | | | |
| Beryllium | ND | 1.0 | | | | | | | | | |
| Cadmium | ND | 1.0 | | | | | | | | | |
| Chromium | ND | 1.0 | | | | | | | | | |
| Cobalt | ND | 1.0 | | | | | | | | | |
| Copper | ND | 2.0 | | | | | | | | | |
| Lead | ND | 1.0 | | | | | | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

**CLIENT:** Ninyo & Moore
**Work Order:** 091607
**Project:** Walnut Creek, 401317003

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 6010_S**

Sample ID: **MB-35470** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78587**
Client ID: **PBS** Batch ID: **35470** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/30/2007** SeqNo: **1187051**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Molybdenum | ND | 1.0 | | | | | | | | | |
| Nickel | ND | 1.0 | | | | | | | | | |
| Selenium | ND | 1.0 | | | | | | | | | |
| Silver | ND | 1.0 | | | | | | | | | |
| Thallium | ND | 1.0 | | | | | | | | | |
| Vanadium | ND | 1.0 | | | | | | | | | |
| Zinc | 0.676 | 1.0 | | | | | | | | | |

Sample ID: **091673-005AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78587**
Client ID: **ZZZZZZ** Batch ID: **35470** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/30/2007** SeqNo: **1187066**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 88.992 | 2.0 | 125.0 | 0 | 71.2 | 24 | 110 | | | | |
| Arsenic | 112.216 | 1.0 | 125.0 | 0 | 89.8 | 61 | 104 | | | | |
| Barium | 225.417 | 1.0 | 125.0 | 100.4 | 100 | 35 | 135 | | | | |
| Beryllium | 114.781 | 1.0 | 125.0 | 0 | 91.8 | 64 | 104 | | | | |
| Cadmium | 109.842 | 1.0 | 125.0 | 0.2140 | 87.7 | 65 | 106 | | | | |
| Chromium | 121.494 | 1.0 | 125.0 | 5.463 | 92.8 | 47 | 122 | | | | |
| Cobalt | 119.463 | 1.0 | 125.0 | 5.679 | 91.0 | 55 | 111 | | | | |
| Copper | 119.533 | 2.0 | 125.0 | 1.948 | 94.1 | 52 | 132 | | | | |
| Lead | 110.107 | 1.0 | 125.0 | 1.954 | 86.5 | 37 | 128 | | | | |
| Molybdenum | 111.669 | 1.0 | 125.0 | 0 | 89.3 | 58 | 108 | | | | |
| Nickel | 115.499 | 1.0 | 125.0 | 3.427 | 89.7 | 48 | 120 | | | | |
| Selenium | 106.792 | 1.0 | 125.0 | 0 | 85.4 | 57 | 105 | | | | |
| Silver | 108.390 | 1.0 | 125.0 | 0 | 86.7 | 44 | 116 | | | | |
| Thallium | 97.060 | 1.0 | 125.0 | 0 | 77.6 | 55 | 103 | | | | |
| Vanadium | 131.258 | 1.0 | 125.0 | 17.04 | 91.4 | 57 | 116 | | | | |
| Zinc | 153.921 | 1.0 | 125.0 | 38.87 | 92.0 | 41 | 120 | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

**CLIENT:** Ninyo & Moore
**Work Order:** 091607
**Project:** Walnut Creek, 401317003

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 6010_S**

Sample ID: **091673-005AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78587**
Client ID: **ZZZZZZ** Batch ID: **35470** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/30/2007** SeqNo: **1187067**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 88.491 | 2.0 | 125.0 | 0 | 70.8 | 24 | 110 | 88.99 | 0.564 | 20 | |
| Arsenic | 110.561 | 1.0 | 125.0 | 0 | 88.4 | 61 | 104 | 112.2 | 1.49 | 20 | |
| Barium | 224.184 | 1.0 | 125.0 | 100.4 | 99.1 | 35 | 135 | 225.4 | 0.549 | 20 | |
| Beryllium | 113.881 | 1.0 | 125.0 | 0 | 91.1 | 64 | 104 | 114.8 | 0.787 | 20 | |
| Cadmium | 108.407 | 1.0 | 125.0 | 0.2140 | 86.6 | 65 | 106 | 109.8 | 1.32 | 20 | |
| Chromium | 120.322 | 1.0 | 125.0 | 5.463 | 91.9 | 47 | 122 | 121.5 | 0.970 | 20 | |
| Cobalt | 118.222 | 1.0 | 125.0 | 5.679 | 90.0 | 55 | 111 | 119.5 | 1.04 | 20 | |
| Copper | 118.066 | 2.0 | 125.0 | 1.948 | 92.9 | 52 | 132 | 119.5 | 1.23 | 20 | |
| Lead | 108.954 | 1.0 | 125.0 | 1.954 | 85.6 | 37 | 128 | 110.1 | 1.05 | 20 | |
| Molybdenum | 110.515 | 1.0 | 125.0 | 0 | 88.4 | 58 | 108 | 111.7 | 1.04 | 20 | |
| Nickel | 113.886 | 1.0 | 125.0 | 3.427 | 88.4 | 48 | 120 | 115.5 | 1.41 | 20 | |
| Selenium | 104.943 | 1.0 | 125.0 | 0 | 84.0 | 57 | 105 | 106.8 | 1.75 | 20 | |
| Silver | 107.311 | 1.0 | 125.0 | 0 | 85.8 | 44 | 116 | 108.4 | 1.00 | 20 | |
| Thallium | 95.812 | 1.0 | 125.0 | 0 | 76.6 | 55 | 103 | 97.06 | 1.29 | 20 | |
| Vanadium | 129.399 | 1.0 | 125.0 | 17.04 | 89.9 | 57 | 116 | 131.3 | 1.43 | 20 | |
| Zinc | 152.795 | 1.0 | 125.0 | 38.87 | 91.1 | 41 | 120 | 153.9 | 0.734 | 20 | |

Sample ID: **LCS-35470** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78587**
Client ID: **LCSS** Batch ID: **35470** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/30/2007** SeqNo: **1187206**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 50.729 | 2.0 | 50.00 | 0.3053 | 101 | 80 | 120 | | | | |
| Arsenic | 50.551 | 1.0 | 50.00 | 0 | 101 | 80 | 120 | | | | |
| Barium | 51.404 | 1.0 | 50.00 | 0 | 103 | 80 | 120 | | | | |
| Beryllium | 49.762 | 1.0 | 50.00 | 0 | 99.5 | 80 | 120 | | | | |
| Cadmium | 50.601 | 1.0 | 50.00 | 0 | 101 | 80 | 120 | | | | |
| Chromium | 49.632 | 1.0 | 50.00 | 0 | 99.3 | 80 | 120 | | | | |
| Cobalt | 49.392 | 1.0 | 50.00 | 0 | 98.8 | 80 | 120 | | | | |
| Copper | 50.095 | 2.0 | 50.00 | 0 | 100 | 80 | 120 | | | | |
| Lead | 50.171 | 1.0 | 50.00 | 0 | 100 | 80 | 120 | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

**CLIENT:** Ninyo & Moore
**Work Order:** 091607
**Project:** Walnut Creek, 401317003

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 6010_S**

Sample ID: **LCS-35470** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78587**
Client ID: **LCSS** Batch ID: **35470** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/30/2007** SeqNo: **1187206**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Molybdenum | 49.728 | 1.0 | 50.00 | 0 | 99.5 | 80 | 120 | | | | |
| Nickel | 48.327 | 1.0 | 50.00 | 0 | 96.7 | 80 | 120 | | | | |
| Selenium | 48.469 | 1.0 | 50.00 | 0 | 96.9 | 80 | 120 | | | | |
| Silver | 48.612 | 1.0 | 50.00 | 0 | 97.2 | 80 | 120 | | | | |
| Thallium | 47.989 | 1.0 | 50.00 | 0 | 96.0 | 80 | 120 | | | | |
| Vanadium | 50.339 | 1.0 | 50.00 | 0 | 101 | 80 | 120 | | | | |
| Zinc | 50.676 | 1.0 | 50.00 | 0.6756 | 100 | 80 | 120 | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

**CLIENT:** Ninyo & Moore
**Work Order:** 091607
**Project:** Walnut Creek, 401317003

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 7471_S**

Sample ID: **091705-015A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78548**
Client ID: **ZZZZZZ** Batch ID: **35515** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **4/27/2007** SeqNo: **1186267**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 1.903 | 0.10 | 0.8300 | 1.046 | 103 | 58 | 168 | | | | |

Sample ID: **091705-015A-MSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78548**
Client ID: **ZZZZZZ** Batch ID: **35515** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **4/27/2007** SeqNo: **1186268**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 1.900 | 0.10 | 0.8300 | 1.046 | 103 | 58 | 168 | 1.903 | 0.110 | 20 | |

Sample ID: **LCS-35515** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78548**
Client ID: **LCSS** Batch ID: **35515** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **4/27/2007** SeqNo: **1186272**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.860 | 0.10 | 0.8300 | 0 | 104 | 80 | 120 | | | | |

Sample ID: **MB-35515** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78548**
Client ID: **PBS** Batch ID: **35515** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **4/27/2007** SeqNo: **1186273**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | 0.10 | | | | | | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

Advanced Technology Laboratories
*3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040*

**CLIENT:** Ninyo & Moore
**Work Order:** 091607
**Project:** Walnut Creek, 401317003

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_S_DM LL**

Sample ID: **MB-35483** SampType: **MBLK** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78499**
Client ID: **PBS** Batch ID: **35483** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **4/27/2007** SeqNo: **1185486**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | ND | 1.0 | | | | | | | | | |
| ORO | ND | 1.0 | | | | | | | | | |
| Surr: p-Terphenyl | 2.360 | | 2.670 | | 88.4 | 27 | 110 | | | | |

Sample ID: **LCS-35483** SampType: **LCS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78499**
Client ID: **LCSS** Batch ID: **35483** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **4/27/2007** SeqNo: **1185487**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 22.787 | 1.0 | 33.00 | 0 | 69.1 | 28 | 126 | | | | |
| Surr: p-Terphenyl | 2.475 | | 2.670 | | 92.7 | 27 | 110 | | | | |

Sample ID: **091532-002AMS** SampType: **MS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78499**
Client ID: **ZZZZZZ** Batch ID: **35483** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **4/27/2007** SeqNo: **1185488**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 18.674 | 1.0 | 33.00 | 1.275 | 52.7 | 12 | 113 | | | | |
| Surr: p-Terphenyl | 2.071 | | 2.670 | | 77.6 | 27 | 110 | | | | |

Sample ID: **091532-002AMSD** SampType: **MSD** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78499**
Client ID: **ZZZZZZ** Batch ID: **35483** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **4/27/2007** SeqNo: **1185489**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 19.801 | 1.0 | 33.00 | 1.275 | 56.1 | 12 | 113 | 18.67 | 5.86 | 30 | |
| Surr: p-Terphenyl | 2.165 | | 2.670 | | 81.1 | 27 | 110 | | 0 | 0 | |

Sample ID: **MB-35483** SampType: **MBLK** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78538**
Client ID: **PBS** Batch ID: **35483** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **4/28/2007** SeqNo: **1186304**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

**CLIENT:** Ninyo & Moore
**Work Order:** 091607
**Project:** Walnut Creek, 401317003

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_S_DM LL**

Sample ID: **MB-35483** SampType: **MBLK** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78538**
Client ID: **PBS** Batch ID: **35483** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **4/28/2007** SeqNo: **1186304**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | ND | 1.0 | | | | | | | | | |
| ORO | ND | 1.0 | | | | | | | | | |
| Surr: p-Terphenyl | 2.901 | | 2.670 | | 109 | 27 | 110 | | | | |

Sample ID: **LCS-35483** SampType: **LCS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78538**
Client ID: **LCSS** Batch ID: **35483** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **4/28/2007** SeqNo: **1186305**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 24.145 | 1.0 | 33.00 | 0 | 73.2 | 28 | 126 | | | | |
| Surr: p-Terphenyl | 2.931 | | 2.670 | | 110 | 27 | 110 | | | | |

Sample ID: **MB-35483** SampType: **MBLK** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78499**
Client ID: **PBS** Batch ID: **35483** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **4/30/2007** SeqNo: **1186867**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | ND | 1.0 | | | | | | | | | |
| ORO | ND | 1.0 | | | | | | | | | |
| Surr: p-Terphenyl | 2.438 | | 2.670 | | 91.3 | 27 | 110 | | | | |

Sample ID: **LCS-35483** SampType: **LCS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **4/27/2007** RunNo: **78499**
Client ID: **LCSS** Batch ID: **35483** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **4/30/2007** SeqNo: **1186868**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 29.082 | 1.0 | 33.00 | 0 | 88.1 | 28 | 126 | | | | |
| Surr: p-Terphenyl | 2.809 | | 2.670 | | 105 | 27 | 110 | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

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**CLIENT:** Ninyo & Moore
**Work Order:** 091607
**Project:** Walnut Creek, 401317003

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_S_G 5035P**

Sample ID: **E042607MB1** SampType: **MBLK** TestCode: **8015_S_G 50** Units: **mg/Kg** Prep Date: RunNo: **78452**
Client ID: **PBS** Batch ID: **E07VS121** TestNo: **EPA 8015B(M** Analysis Date: **4/26/2007** SeqNo: **1184921**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | ND | 1.0 | | | | | | | | | |
| Surr: Bromofluorobenzene (FID) | 84.520 | | 100.0 | | 84.5 | 42 | 149 | | | | |

Sample ID: **091568-001HMS** SampType: **MS** TestCode: **8015_S_G 50** Units: **mg/Kg** Prep Date: **4/24/2007** RunNo: **78452**
Client ID: **ZZZZZZ** Batch ID: **E07VS121** TestNo: **EPA 8015B(M** Analysis Date: **4/26/2007** SeqNo: **1184925**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 5.385 | 1.2 | 6.127 | 0 | 87.9 | 22 | 139 | | | | |
| Surr: Bromofluorobenzene (FID) | 120.208 | | 122.5 | | 98.1 | 42 | 149 | | | | |

Sample ID: **091568-001HMSD** SampType: **MSD** TestCode: **8015_S_G 50** Units: **mg/Kg** Prep Date: **4/24/2007** RunNo: **78452**
Client ID: **ZZZZZZ** Batch ID: **E07VS121** TestNo: **EPA 8015B(M** Analysis Date: **4/26/2007** SeqNo: **1184926**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 5.422 | 1.2 | 6.010 | 0 | 90.2 | 22 | 139 | 5.385 | 0.686 | 30 | |
| Surr: Bromofluorobenzene (FID) | 116.126 | | 120.2 | | 96.6 | 42 | 149 | | 0 | 30 | |

Sample ID: **E042607LCS1** SampType: **LCS** TestCode: **8015_S_G 50** Units: **mg/Kg** Prep Date: RunNo: **78452**
Client ID: **LCSS** Batch ID: **E07VS121** TestNo: **EPA 8015B(M** Analysis Date: **4/26/2007** SeqNo: **1184927**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 4.344 | 1.0 | 5.000 | 0 | 86.9 | 74 | 112 | | | | |
| Surr: Bromofluorobenzene (FID) | 88.271 | | 100.0 | | 88.3 | 42 | 149 | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

**CLIENT:** Ninyo & Moore
**Work Order:** 091607
**Project:** Walnut Creek, 401317003

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_S_G 5035P**

Sample ID: **E042707MB4** SampType: **MBLK** TestCode: **8015_S_G 50** Units: **mg/Kg** Prep Date: RunNo: **78555**
Client ID: **PBS** Batch ID: **E07VS124** TestNo: **EPA 8015B(M** Analysis Date: **4/27/2007** SeqNo: **1186436**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | ND | 1.0 | | | | | | | | | |
| Surr: Bromofluorobenzene (FID) | 88.342 | | 100.0 | | 88.3 | 42 | 149 | | | | |

Sample ID: **091610-012AMS** SampType: **MS** TestCode: **8015_S_G 50** Units: **mg/Kg** Prep Date: RunNo: **78555**
Client ID: **ZZZZZZ** Batch ID: **E07VS124** TestNo: **EPA 8015B(M** Analysis Date: **4/27/2007** SeqNo: **1186438**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 4.404 | 1.0 | 5.000 | 0 | 88.1 | 22 | 139 | | | | |
| Surr: Bromofluorobenzene (FID) | 94.342 | | 100.0 | | 94.3 | 42 | 149 | | | | |

Sample ID: **091610-012AMSD** SampType: **MSD** TestCode: **8015_S_G 50** Units: **mg/Kg** Prep Date: RunNo: **78555**
Client ID: **ZZZZZZ** Batch ID: **E07VS124** TestNo: **EPA 8015B(M** Analysis Date: **4/28/2007** SeqNo: **1186439**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 4.533 | 1.0 | 5.000 | 0 | 90.7 | 22 | 139 | 4.404 | 2.89 | 30 | |
| Surr: Bromofluorobenzene (FID) | 95.493 | | 100.0 | | 95.5 | 42 | 149 | | 0 | 30 | |

Sample ID: **E042707LCS3** SampType: **LCS** TestCode: **8015_S_G 50** Units: **mg/Kg** Prep Date: RunNo: **78555**
Client ID: **LCSS** Batch ID: **E07VS124** TestNo: **EPA 8015B(M** Analysis Date: **4/28/2007** SeqNo: **1186440**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 4.664 | 1.0 | 5.000 | 0 | 93.3 | 74 | 112 | | | | |
| Surr: Bromofluorobenzene (FID) | 93.815 | | 100.0 | | 93.8 | 42 | 149 | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

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**CLIENT:** Ninyo & Moore
**Work Order:** 091607
**Project:** Walnut Creek, 401317003

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8021_S_B 5035P**

Sample ID: **E042607MB1** SampType: **MBLK** TestCode: **8021_S_B 50** Units: **µg/Kg** Prep Date: RunNo: **78452**
Client ID: **PBS** Batch ID: **E07VS121** TestNo: **EPA 8021B** Analysis Date: **4/26/2007** SeqNo: **1184933**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 5.0 | | | | | | | | | |
| Ethylbenzene | ND | 5.0 | | | | | | | | | |
| m,p-Xylene | ND | 10 | | | | | | | | | |
| o-Xylene | ND | 5.0 | | | | | | | | | |
| Toluene | ND | 5.0 | | | | | | | | | |
| Surr: Bromofluorobenzene (PID) | 98.134 | | 100.0 | | 98.1 | 49 | 140 | | | | |

Sample ID: **091568-001HMS** SampType: **MS** TestCode: **8021_S_B 50** Units: **µg/Kg** Prep Date: RunNo: **78452**
Client ID: **ZZZZZZ** Batch ID: **E07VS121** TestNo: **EPA 8021B** Analysis Date: **4/26/2007** SeqNo: **1184937**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 33.403 | 6.1 | 43.81 | 0 | 76.2 | 21 | 142 | | | | |
| Ethylbenzene | 43.317 | 6.1 | 60.85 | 0 | 71.2 | 17 | 148 | | | | |
| m,p-Xylene | 171.838 | 12 | 244.5 | 0 | 70.3 | 21 | 125 | | | | |
| o-Xylene | 58.205 | 6.1 | 96.08 | 0 | 60.6 | 16 | 130 | | | | |
| Toluene | 158.298 | 6.1 | 211.1 | 0 | 75.0 | 26 | 128 | | | | |
| Surr: Bromofluorobenzene (PID) | 142.286 | | 122.5 | | 116 | 49 | 140 | | | | |

Sample ID: **091568-001HMSD** SampType: **MSD** TestCode: **8021_S_B 50** Units: **µg/Kg** Prep Date: RunNo: **78452**
Client ID: **ZZZZZZ** Batch ID: **E07VS121** TestNo: **EPA 8021B** Analysis Date: **4/26/2007** SeqNo: **1184938**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 33.935 | 6.0 | 42.97 | 0 | 79.0 | 21 | 142 | 33.40 | 1.58 | 30 | |
| Ethylbenzene | 44.732 | 6.0 | 59.68 | 0 | 75.0 | 17 | 148 | 43.32 | 3.21 | 30 | |
| m,p-Xylene | 181.832 | 12 | 239.8 | 0 | 75.8 | 21 | 125 | 171.8 | 5.65 | 30 | |
| o-Xylene | 66.502 | 6.0 | 94.23 | 0 | 70.6 | 16 | 130 | 58.20 | 13.3 | 30 | |
| Toluene | 163.302 | 6.0 | 207.0 | 0 | 78.9 | 26 | 128 | 158.3 | 3.11 | 30 | |
| Surr: Bromofluorobenzene (PID) | 138.648 | | 120.2 | | 115 | 49 | 140 | | 0 | 30 | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

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**CLIENT:** Ninyo & Moore
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**Project:** Walnut Creek, 401317003

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8021_S_B 5035P**

Sample ID: **E042607LCS2** SampType: **LCS** TestCode: **8021_S_B 50** Units: **µg/Kg** Prep Date: RunNo: **78452**
Client ID: **LCSS** Batch ID: **E07VS121** TestNo: **EPA 8021B** Analysis Date: **4/26/2007** SeqNo: **1184939**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 93.736 | 5.0 | 100.0 | 0 | 93.7 | 76 | 118 | | | | |
| Ethylbenzene | 95.728 | 5.0 | 100.0 | 0 | 95.7 | 82 | 116 | | | | |
| m,p-Xylene | 195.086 | 10 | 200.0 | 0 | 97.5 | 81 | 118 | | | | |
| o-Xylene | 96.665 | 5.0 | 100.0 | 0 | 96.7 | 83 | 120 | | | | |
| Toluene | 95.135 | 5.0 | 100.0 | 0 | 95.1 | 81 | 116 | | | | |
| Surr: Bromofluorobenzene (PID) | 103.231 | | 100.0 | | 103 | 49 | 140 | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

**CLIENT:** Ninyo & Moore
**Work Order:** 091607
**Project:** Walnut Creek, 401317003

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8021_S_B 5035P**

Sample ID: **E042707MB4** SampType: **MBLK** TestCode: **8021_S_B 50** Units: **µg/Kg** Prep Date: RunNo: **78555**
Client ID: **PBS** Batch ID: **E07VS124** TestNo: **EPA 8021B** Analysis Date: **4/27/2007** SeqNo: **1186542**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 5.0 | | | | | | | | | |
| Ethylbenzene | ND | 5.0 | | | | | | | | | |
| m,p-Xylene | ND | 10 | | | | | | | | | |
| o-Xylene | ND | 5.0 | | | | | | | | | |
| Toluene | ND | 5.0 | | | | | | | | | |
| Surr: Bromofluorobenzene (PID) | 104.429 | | 100.0 | | 104 | 49 | 140 | | | | |

Sample ID: **091610-012AMS** SampType: **MS** TestCode: **8021_S_B 50** Units: **µg/Kg** Prep Date: RunNo: **78555**
Client ID: **ZZZZZZ** Batch ID: **E07VS124** TestNo: **EPA 8021B** Analysis Date: **4/27/2007** SeqNo: **1186547**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 26.881 | 5.0 | 35.75 | 0 | 75.2 | 21 | 142 | | | | |
| Ethylbenzene | 36.330 | 5.0 | 49.65 | 0 | 73.2 | 17 | 148 | | | | |
| m,p-Xylene | 144.509 | 10 | 199.6 | 0 | 72.4 | 21 | 125 | | | | |
| o-Xylene | 48.579 | 5.0 | 78.40 | 0 | 62.0 | 16 | 130 | | | | |
| Toluene | 130.692 | 5.0 | 172.2 | 0 | 75.9 | 26 | 128 | | | | |
| Surr: Bromofluorobenzene (PID) | 115.239 | | 100.0 | | 115 | 49 | 140 | | | | |

Sample ID: **091610-012AMSD** SampType: **MSD** TestCode: **8021_S_B 50** Units: **µg/Kg** Prep Date: RunNo: **78555**
Client ID: **ZZZZZZ** Batch ID: **E07VS124** TestNo: **EPA 8021B** Analysis Date: **4/28/2007** SeqNo: **1186548**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 27.726 | 5.0 | 35.75 | 0 | 77.6 | 21 | 142 | 26.88 | 3.09 | 30 | |
| Ethylbenzene | 37.244 | 5.0 | 49.65 | 0 | 75.0 | 17 | 148 | 36.33 | 2.48 | 30 | |
| m,p-Xylene | 147.838 | 10 | 199.6 | 0 | 74.1 | 21 | 125 | 144.5 | 2.28 | 30 | |
| o-Xylene | 49.417 | 5.0 | 78.40 | 0 | 63.0 | 16 | 130 | 48.58 | 1.71 | 30 | |
| Toluene | 134.160 | 5.0 | 172.2 | 0 | 77.9 | 26 | 128 | 130.7 | 2.62 | 30 | |
| Surr: Bromofluorobenzene (PID) | 116.597 | | 100.0 | | 117 | 49 | 140 | | 0 | 30 | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
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**Work Order:** 091607
**Project:** Walnut Creek, 401317003

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8021_S_B 5035P**

Sample ID: **E042707LCS5** SampType: **LCS** TestCode: **8021_S_B 50** Units: **µg/Kg** Prep Date: RunNo: **78555**
Client ID: **LCSS** Batch ID: **E07VS124** TestNo: **EPA 8021B** Analysis Date: **4/28/2007** SeqNo: **1186549**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 89.821 | 5.0 | 100.0 | 0 | 89.8 | 76 | 118 | | | | |
| Ethylbenzene | 90.359 | 5.0 | 100.0 | 0 | 90.4 | 82 | 116 | | | | |
| m,p-Xylene | 182.312 | 10 | 200.0 | 0 | 91.2 | 81 | 118 | | | | |
| o-Xylene | 92.469 | 5.0 | 100.0 | 0 | 92.5 | 83 | 120 | | | | |
| Toluene | 91.066 | 5.0 | 100.0 | 0 | 91.1 | 81 | 116 | | | | |
| Surr: Bromofluorobenzene (PID) | 111.275 | | 100.0 | | 111 | 49 | 140 | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

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