TURNER MACLANE
ENVIRONMENTAL CONSULTING, INC.

*Dwight Hoenig, President*

April 28, 2016

Mark Detterman
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway,
Alameda Ca. 94502

Subject: Mercury analysis for backfill soil, 1315 Court St. Alameda California

Dear Mark:

In response to your request, attached is the certified analytical result for the soil which was used to backfill the location of the mercury removal project at the subject property. As you will see, the total mercury level reported at 0.049 mg/Kg is well below any health based standards for residential environments.

It is our belief that our client has now complied with all requested removal and reporting activities necessary to receive a closure letter for this matter.

Please do feel free to contact me directly should you need anything further relevant to this matter. Thank you for your cooperation and assistance throughout this lengthy process.

Sincerely,

Dwight Hoenig
President, Turner/Maclane Environmental Consulting
Attachment

Phone: **510-881-8811** 3511 MESA DRIVE HAYWARD, CA 9452 Cell: **925-580-9649**

TURNER MACLANE

*Dwight Hoenig, President*

Certified Analytical Results
Excavation Backfill Soil: 1315 Court Street,
Alameda, California

Phone: **510-881-8811**
3511 MESA DRIVE
HAYWARD, CA 9452
Cell: **925-580-9649**


Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

**Laboratory Job Number 275578**
**ANALYTICAL REPORT**

Turner Maclane Inc.
3511 La Mesa Drive
Hayward, CA 94542

Project : STANDARD

Level : II

| Sample ID | Lab ID |
|---|---|
| 1315 FILL DIRT | 275578-001 |

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 05/02/2016

John Goyette
Laboratory Director
goyette@ctberk.com
(510) 204-2233

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

# CASE NARRATIVE

| | |
|---|---|
| Laboratory number: | **275578** |
| Client: | **Turner Maclane Inc.** |
| Request Date: | **03/30/16** |
| Samples Received: | **03/30/16** |

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 03/30/16. The sample was received cold and intact.

**Metals (EPA 7471A):**

275578-001 was analyzed outside of hold time; affected data was qualified with "b". No other analytical problems were encountered.

# CHAIN OF CUSTODY

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ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
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Berkeley, CA 94710

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Fax (510) 486-0532

Page ____ of ____

Chain of Custody # _____

C&T LOGIN # 275578

Project No:

Project Name:

Project P. O. No:

EDD Format: Report Level ☐ II ☐ III ☐ IV

Turnaround Time: ☐ RUSH _____ ☒ Standard

Sampler: PAUL MEUSER

Report To: DWIGHT HOENIC

Company: TURNER MACLANE

Telephone: 925-580-9649

Email: dwight@turnermaclane.com

| Lab No. | Sample ID. | SAMPLING | | MATRIX | | | | # of Containers | CHEMICAL PRESERVATIVE | | | | | ANALYTICAL REQUEST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Date Collected | Time Collected | Water | Solid | | | | HCl | H2SO4 | HNO3 | NaOH | None | |
| | 1315 fill dirt | 3-16-16 | 9:00am | | X | | | 1 | | | | | | + Mercury |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |

Notes:

cc' result.

bpmeuser@woodrodgers.com

paid $100-

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:

Paul D Meuser DATE: 3/30 TIME: 1019

DATE: TIME:

DATE: TIME:

RECEIVED BY:

DATE: 3/30 TIME: 1019

DATE: TIME:

DATE: TIME:

**COOLER RECEIPT CHECKLIST**

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Login # 275578 Date Received 3/30/15 Number of coolers 1
Client Turner Project

Date Opened 3/30 By (print) JL (sign)
Date Logged in 3/31 By (print) (sign)

1. Did cooler come with a shipping slip (airbill, etc) YES NO
   Shipping info
2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many Name Date
2B. Were custody seals intact upon arrival? YES NO N/A
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☒ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☐ Wet ☐ Blue/Gel ☒ None Temp(°C)

☐ Temperature blank(s) included? ☐ Thermometer# ☐ IR Gun#

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are there any missing / extra samples? YES NO
11. Are samples in the appropriate containers for indicated tests? YES NO
12. Are sample labels present, in good condition and complete? YES NO
13. Do the sample labels agree with custody papers? YES NO
14. Was sufficient amount of sample sent for tests requested? YES NO
15. Are the samples appropriately preserved? YES NO N/A
16. Did you check preservatives for all bottles for each sample? YES NO N/A
17. Did you document your preservative check? (pH strip lot# ) YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? YES NO N/A
21. Was the client contacted concerning this sample delivery? YES NO
   If YES, Who was called? By Date:

COMMENTS

Rev 12, 12/01/15

Curtis & Tompkins, Ltd.

# Detections Summary for 275578

Results for any subcontracted analyses are not included in this summary.

Client : Turner Maclane Inc.
Project : STANDARD
Location :

Client Sample ID : 1315 FILL DIRT  Laboratory Sample ID : 275578-001

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|
| Mercury | 0.049 | b | 0.018 | mg/Kg | As Recd | 1.000 | EPA 7471A | METHOD |

b = See narrative

Curtis & Tompkins, Ltd.

# Mercury by Cold Vapor AA

| | | | |
|---|---|---|---|
| Lab #: | 275578 | Prep: | METHOD |
| Client: | Turner Maclane Inc. | Analysis: | EPA 7471A |
| Project#: | STANDARD | | |
| Analyte: | Mercury | Batch#: | 234228 |
| Field ID: | 1315 FILL DIRT | Sampled: | 03/16/16 |
| Matrix: | Soil | Received: | 03/30/16 |
| Units: | mg/Kg | Prepared: | 04/19/16 |
| Basis: | as received | Analyzed: | 04/19/16 |
| Diln Fac: | 1.000 | | |

| Type | Lab ID | Result | RL |
|---|---|---|---|
| SAMPLE | 275578-001 | 0.049 b | 0.018 |
| BLANK | QC832114 | ND | 0.017 |

b= See narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Mercury by Cold Vapor AA

| | | | |
|---|---|---|---|
| Lab #: | 275578 | Prep: | METHOD |
| Client: | Turner Maclane Inc. | Analysis: | EPA 7471A |
| Project#: | STANDARD | | |
| Analyte: | Mercury | Diln Fac: | 1.000 |
| Field ID: | ZZZZZZZZZZ | Batch#: | 234096 |
| MSS Lab ID: | 275740-001 | Sampled: | 04/06/16 |
| Matrix: | Soil | Received: | 04/06/16 |
| Units: | mg/Kg | Prepared: | 04/14/16 |
| Basis: | as received | Analyzed: | 04/14/16 |

| Type | Lab ID | MSS Result | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|---|
| BS | QC831576 | | 0.2119 | 0.2205 | 104 | 80-120 | | |
| BSD | QC831577 | | 0.2193 | 0.2250 | 103 | 80-120 | 1 | 20 |
| MS | QC831611 | 0.2155 | 0.2049 | 0.4321 | 106 | 69-142 | | |
| MSD | QC831612 | | 0.2193 | 0.4097 | 89 | 69-142 | 9 | 36 |

RPD= Relative Percent Difference

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Batch QC Report

## Mercury by Cold Vapor AA

| | | | |
|---|---|---|---|
| Lab #: | 275578 | Prep: | METHOD |
| Client: | Turner Maclane Inc. | Analysis: | EPA 7471A |
| Project#: | STANDARD | | |
| Analyte: | Mercury | Diln Fac: | 1.000 |
| Field ID: | 1315 FILL DIRT | Batch#: | 234228 |
| MSS Lab ID: | 275578-001 | Sampled: | 03/16/16 |
| Matrix: | Soil | Received: | 03/30/16 |
| Units: | mg/Kg | Prepared: | 04/19/16 |
| Basis: | as received | Analyzed: | 04/19/16 |

| Type | Lab ID | MSS Result | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|---|
| BS | QC832115 | | 0.2016 | 0.1985 | 98 | 80-120 | | |
| BSD | QC832116 | | 0.2273 | 0.2313 | 102 | 80-120 | 3 | 20 |
| MS | QC832117 | 0.04904 | 0.1923 | 0.2556 | 107 | 69-142 | | |
| MSD | QC832118 | | 0.1984 | 0.2317 | 92 | 69-142 | 12 | 36 |

RPD= Relative Percent Difference