ENTERED

**DEPARTMENT OF THE ARMY**
**HEADQUARTERS, U. S. ARMY GARRISON COMMAND**
**1733 PLEASONTON ROAD**
**FORT BLISS, TEXAS 79916-6816**

REPLY TO
ATTENTION OF:

May 6, 2008

IMWE-BLS-PWE

John E. Kieling, Program Manager
Permits Management Program
State of New Mexico, Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive, East Building 1
Santa Fe, New Mexico 87505-6303

Dear Mr. Kieling:

The Fort Bliss Environmental Division (ED) requests the New Mexico Environmental Department's (NMED) concurrence for the surface disposal of soil cuttings generated as part of the investigation field work conducted February 11 - 16, 2008 under the NMED-approved RCRA Facility Investigation Work Plan for Oro Grande Landfill (SWMU-25/FTBL-14) at Fort Bliss, NM. The soil cuttings, or investigation-derived waste (IDW), have been containerized in 55-gallon Department of Transportation approved drums and staged on-site. Following NMED concurrence, the drummed soil cuttings will be spread on-site. Drummed IDW wash water will be handled separately.

Analytical results for the composite IDW soil sample were compared to the NMED Soil Screening Level (SSL)-Residential. No exceedances of the SSL-Residential levels were observed. IDW soil composite sample detections and SSL-Residential levels are summarized in Table 1. Additionally, the analytical results for the composite IDW soil sample are attached. An additional copy of this letter has been furnished to Mr. Rick Smith, Tulsa District Corps of Engineers.

If you have any questions or need further assistance, please do not hesitate to contact Kelly Blough at 915-568-0794, or kelly.blough@us.army.mil.

Sincerely,

Sylvia A. Waggoner

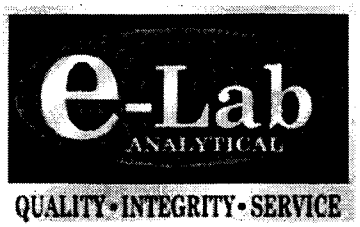
Sylvia A. Waggoner
Chief, Multimedia Compliance Branch
Environmental Division
Directorate of Public Works

Enclosure

**Table 1**
**Summary of Detections - IDW Soil Composite Sample - February 2008**
**Oro Grande Landfill - FTBL-14**
**Fort Bliss, Oro Grande, New Mexico**

| | IDW-Comp | NMED SSLs |
|---|---|---|
| **Parameters** | **Composite** | **Residential** |
| **ICP Metals (mg/kg)** | | |
| Aluminum | 3,880 | 77,800 |
| Arsenic | 2.11 | 3.9 |
| Barium | 69.7 | 15,600 |
| Beryllium | 0.233 J | 156 |
| Boron | 4.54 | 15,600 |
| Cadmium | 0.0378 J | 39 |
| Calcium | 29,900 | -- |
| Chromium | 3.86 | 234 |
| Colbalt | 1.75 | 1,520 |
| Copper | 1.81 | 3,130 |
| Iron | 4,250 | 23,500 |
| Lead | 3.46 | 400 |
| Magnesium | 2,330 | -- |
| Manganese | 76 | 3,590 |
| Molybdenum | 0.216 J | 391 |
| Nickel | 2.82 | 1,560 |
| Potassium | 1,050 | -- |
| Selenium | 0.579 | 391 |
| Silver | 0.102 J | 391 |
| Sodium | 288 | -- |
| Strontium | 74.7 | 46,900 |
| Tin | 1.04 J | -- |
| Titanium | 114 | -- |
| Vanadium | 12.6 | 78.2 |
| Zinc | 10.3 | 23,500 |
| All Other Analytes | ND | -- |
| **ICP Metals, Total (mg/kg)** | | |
| Lithium | 5.22 | -- |
| **TCL Volatile Organic Compounds (µg/kg)** | | |
| All Analytes | ND | various |
| **Low-Level TCL Semi-Volatile Organic Compounds (µg/kg)** | | |
| Bis(2-ethylhexyl)phthalate | 18 | 347,000 |
| Di-n-butyl phthalate | 13 | 6,110,000 |
| All Other Analytes | ND | various |
| **Organochlorine Pesticides (µg/kg)** | | |
| All Analytes | ND | various |
| **Miscellaneous Pesticides (µg/kg)** | | |
| All Analytes | ND | various |
| **Chlorinated Herbicides (µg/kg)** | | |
| All Analytes | ND | various |
| **Polychlorinated Biphenyls (µg/kg)** | | |
| All Analytes | ND | various |
| **Modified 8015 TPH (mg/kg)** | | |
| All Analytes | ND | -- |
| **Total Mercury (µg/kg)** | | |
| All Analytes | ND | 100,000 |
| **Total Cyanide (mg/kg)** | | |
| All Analytes | ND | various |
| **Total Phosphorus (mg/kg)** | | |
| Total Phosphorus (As P) | 106 | -- |
| **Soluble Silica as SiO2 (mg/kg)** | | |
| Silica, Dissolved (as SiO2) | 19.6 | -- |

***Notes:***
ND - Not Detected J - Estimated concentration below reporting limit.
REF: NMED Soil Screening levels (June 2006)
-- ; NMED SSL has not been established





February 29, 2008

Michael Forlenza
Malcolm Pirnie, Inc.
1700 West Loop South
Suite 1450
Houston, TX 77027

Tel: (713) 840-1511
Fax: (713) 840-1207

Re: Oro Grande LF

Work Order : **0802326**

Dear Michael Forlenza,

e-Lab Analytical, Inc. received 12 samples on 2/18/2008 07:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 236.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Ed B. Fry

Electronically approved by: Glenda H. Ramos

Ed B. Fry
Project Manager


Certificate No: T104704231-06-TX

## e-Lab Analytical, Inc.

*Date: February 29, 2008*

**Client:** Malcolm Pirnie, Inc.
**Project:** Oro Grande LF
**Work Order:** **0802326**

## Work Order Sample Summary

| Lab Samp ID | Client Sample ID | Matrix | Tag Number | Collection Date | Date Received | Hold |
|---|---|---|---|---|---|---|
| 0802326-01 | F14-SB-3 (0-2) | Soil | | 2/14/2008 14:30 | 2/18/2008 07:30 | ☐ |
| 0802326-02 | F14-SB-3 (13-15) | Soil | | 2/14/2008 15:00 | 2/18/2008 07:30 | ☐ |
| 0802326-03 | F14-SB-3 (28-30) | Soil | | 2/15/2008 08:00 | 2/18/2008 07:30 | ☐ |
| 0802326-04 | IDW-Comp | Soil | | 2/14/2008 16:05 | 2/18/2008 07:30 | ☐ |
| 0802326-05 | F14-SB-2 (0-2) | Soil | | 2/15/2008 16:37 | 2/18/2008 07:30 | ☐ |
| 0802326-06 | F14-SB-2 (13-15) | Soil | | 2/15/2008 17:05 | 2/18/2008 07:30 | ☐ |
| 0802326-07 | F14-SB-2 (28-30) | Soil | | 2/15/2008 19:00 | 2/18/2008 07:30 | ☐ |
| 0802326-08 | F14-SB-5 (0-2) | Soil | | 2/15/2008 13:00 | 2/18/2008 07:30 | ☐ |
| 0802326-09 | F14-SB-5 (13-15) | Soil | | 2/15/2008 13:10 | 2/18/2008 07:30 | ☐ |
| 0802326-10 | F14-SB-5 (28-30) | Soil | | 2/15/2008 14:17 | 2/18/2008 07:30 | ☐ |
| 0802326-11 | Trip Blank 2330 | Water | | 2/15/2008 19:00 | 2/18/2008 07:30 | ☐ |
| 0802326-12 | Trip Blank 1598 | Water | | 2/15/2008 19:00 | 2/18/2008 07:30 | ☐ |

## e-Lab Analytical, Inc.

**Date:** *February 29, 2008*

**Client:** Malcolm Pirnie, Inc.
**Project:** Oro Grande LF
**Sample ID:** IDW-Comp
**Collection Date:** 2/14/2008 4:05:00 PM

**Work Order:** 0802326
**Lab ID:** 0802326-04
**Matrix:** SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MISCELLANEOUS PESTICIDES** | | | Method: **SW8081** | | Prep: SW3541 / 2/20/08 | | Analyst: **JLJ** |
| alpha-Chlordane | U | | 0.20 | 1.7 | µg/Kg | 1 | 2/24/2008 |
| gamma-Chlordane | U | | 0.20 | 1.7 | µg/Kg | 1 | 2/24/2008 |
| **ORGANOCHLORINE PESTICIDES** | | | Method: **SW8081** | | Prep: SW3541 / 2/20/08 | | Analyst: **JLJ** |
| 4,4'-DDD | U | | 0.20 | 3.3 | µg/Kg | 1 | 2/24/2008 |
| 4,4'-DDE | U | | 0.20 | 3.3 | µg/Kg | 1 | 2/24/2008 |
| 4,4'-DDT | U | | 0.23 | 3.3 | µg/Kg | 1 | 2/24/2008 |
| Aldrin | U | | 0.20 | 1.7 | µg/Kg | 1 | 2/24/2008 |
| alpha-BHC | U | | 0.20 | 1.7 | µg/Kg | 1 | 2/24/2008 |
| beta-BHC | U | | 0.20 | 1.7 | µg/Kg | 1 | 2/24/2008 |
| Chlordane | U | | 3.0 | 17 | µg/Kg | 1 | 2/24/2008 |
| delta-BHC | U | | 0.20 | 1.7 | µg/Kg | 1 | 2/24/2008 |
| Dieldrin | U | | 0.20 | 3.3 | µg/Kg | 1 | 2/24/2008 |
| Endosulfan I | U | | 0.20 | 1.7 | µg/Kg | 1 | 2/24/2008 |
| Endosulfan II | U | | 0.30 | 3.3 | µg/Kg | 1 | 2/24/2008 |
| Endosulfan sulfate | U | | 0.30 | 3.3 | µg/Kg | 1 | 2/24/2008 |
| Endrin | U | | 0.22 | 3.3 | µg/Kg | 1 | 2/24/2008 |
| Endrin aldehyde | U | | 0.30 | 3.3 | µg/Kg | 1 | 2/24/2008 |
| Endrin ketone | U | | 0.25 | 3.3 | µg/Kg | 1 | 2/24/2008 |
| gamma-BHC | U | | 0.20 | 1.7 | µg/Kg | 1 | 2/24/2008 |
| Heptachlor | U | | 0.20 | 1.7 | µg/Kg | 1 | 2/24/2008 |
| Heptachlor epoxide | U | | 0.20 | 1.7 | µg/Kg | 1 | 2/24/2008 |
| Methoxychlor | U | | 1.7 | 17 | µg/Kg | 1 | 2/24/2008 |
| Toxaphene | U | | 5.8 | 17 | µg/Kg | 1 | 2/24/2008 |
| *Surr: Decachlorobiphenyl* | *91.7* | | | *59-144* | *%REC* | 1 | 2/24/2008 |
| *Surr: Tetrachloro-m-xylene* | *82.8* | | | *56.9-130* | *%REC* | 1 | 2/24/2008 |
| **CHLORINATED HERBICIDES** | | | Method: **SW8151** | | Prep: SW3550 / 2/22/08 | | Analyst: **JLJ** |
| 2,4,5-T | U | | 0.60 | 3.3 | µg/Kg | 1 | 2/24/2008 |
| 2,4,5-TP (Silvex) | U | | 0.50 | 3.3 | µg/Kg | 1 | 2/24/2008 |
| 2,4-D | U | | 1.0 | 6.6 | µg/Kg | 1 | 2/24/2008 |
| 2,4-DB | U | | 1.7 | 6.6 | µg/Kg | 1 | 2/24/2008 |
| Dalapon | U | | 1.6 | 3.3 | µg/Kg | 1 | 2/24/2008 |
| Dicamba | U | | 1.5 | 3.3 | µg/Kg | 1 | 2/24/2008 |
| Dichlorprop | U | | 3.0 | 6.6 | µg/Kg | 1 | 2/24/2008 |
| Dinoseb | U | | 0.50 | 3.3 | µg/Kg | 1 | 2/24/2008 |
| MCPA | U | | 150 | 660 | µg/Kg | 1 | 2/24/2008 |
| MCPP | U | | 140 | 660 | µg/Kg | 1 | 2/24/2008 |
| *Surr: DCAA* | *105* | | | *30-150* | *%REC* | 1 | 2/24/2008 |

**Qualifiers:**

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* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
P - Dual Column results RPD > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

## e-Lab Analytical, Inc.

**Date:** *February 29, 2008*

**Client:** Malcolm Pirnie, Inc.
**Project:** Oro Grande LF
**Sample ID:** IDW-Comp
**Collection Date:** 2/14/2008 4:05:00 PM

**Work Order:** 0802326
**Lab ID:** 0802326-04
**Matrix:** SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **PCBS** | | Method: **SW8082** | | | Prep: SW3541 / 2/20/08 | | Analyst: **JLJ** |
| Aroclor 1016 | U | | 3.0 | 17 | µg/Kg | 1 | 2/26/2008 |
| Aroclor 1221 | U | | 3.0 | 17 | µg/Kg | 1 | 2/26/2008 |
| Aroclor 1232 | U | | 3.0 | 17 | µg/Kg | 1 | 2/26/2008 |
| Aroclor 1242 | U | | 3.0 | 17 | µg/Kg | 1 | 2/26/2008 |
| Aroclor 1248 | U | | 3.0 | 17 | µg/Kg | 1 | 2/26/2008 |
| Aroclor 1254 | U | | 3.0 | 17 | µg/Kg | 1 | 2/26/2008 |
| Aroclor 1260 | U | | 3.0 | 17 | µg/Kg | 1 | 2/26/2008 |
| *Surr: Decachlorobiphenyl* | *114* | | | *54-143* | *%REC* | 1 | 2/26/2008 |
| *Surr: Tetrachloro-m-xylene* | *111* | | | *55-137* | *%REC* | 1 | 2/26/2008 |
| **MODIFIED 8015 TPH** | | Method: **SW8015M** | | | Prep: SW3541 / 2/21/08 | | Analyst: **JFT** |
| TPH (Diesel Range) | U | | 0.50 | 1.7 | mg/Kg | 1 | 2/22/2008 |
| *Surr: 2-Fluorobiphenyl* | *70.4* | | | *70-130* | *%REC* | 1 | 2/22/2008 |
| **MERCURY, TOTAL** | | Method: **SW7471A** | | | Prep: SW7471A / 2/25/08 | | Analyst: **JCJ** |
| Mercury | U | | 1.4 | 13.1 | µg/Kg | 1 | 2/25/2008 |
| **ICP METALS - SW6020A** | | Method: **SW6020** | | | Prep: SW3050A / 2/20/08 | | Analyst: **SA** |
| **Aluminum** | **3,880** | | **36** | **96.2** | **mg/Kg** | 100 | 2/21/2008 |
| Antimony | U | | 0.13 | 0.481 | mg/Kg | 1 | 2/20/2008 |
| **Arsenic** | **2.11** | | **0.12** | **0.481** | **mg/Kg** | 1 | 2/20/2008 |
| **Barium** | **69.7** | | **0.067** | **0.481** | **mg/Kg** | 1 | 2/20/2008 |
| **Beryllium** | **0.233** | J | **0.029** | **0.481** | **mg/Kg** | 1 | 2/20/2008 |
| **Boron** | **4.54** | | **0.38** | **2.40** | **mg/Kg** | 1 | 2/20/2008 |
| **Cadmium** | **0.0378** | J | **0.029** | **0.481** | **mg/Kg** | 1 | 2/20/2008 |
| **Calcium** | **29,900** | | **960** | **4,810** | **mg/Kg** | 100 | 2/21/2008 |
| **Chromium** | **3.86** | | **0.067** | **0.481** | **mg/Kg** | 1 | 2/20/2008 |
| **Cobalt** | **1.75** | | **0.016** | **0.481** | **mg/Kg** | 1 | 2/20/2008 |
| **Copper** | **1.81** | | **0.038** | **0.481** | **mg/Kg** | 1 | 2/20/2008 |
| **Iron** | **4,250** | | **4.2** | **48.1** | **mg/Kg** | 1 | 2/20/2008 |
| **Lead** | **3.46** | | **0.087** | **0.481** | **mg/Kg** | 1 | 2/20/2008 |
| **Magnesium** | **2,330** | | **2.5** | **48.1** | **mg/Kg** | 1 | 2/20/2008 |
| **Manganese** | **76.0** | | **0.048** | **0.481** | **mg/Kg** | 1 | 2/20/2008 |
| **Molybdenum** | **0.216** | J | **0.096** | **0.481** | **mg/Kg** | 1 | 2/20/2008 |
| **Nickel** | **2.82** | | **0.077** | **0.481** | **mg/Kg** | 1 | 2/20/2008 |
| **Potassium** | **1,050** | | **2.5** | **48.1** | **mg/Kg** | 1 | 2/20/2008 |
| **Selenium** | **0.579** | | **0.18** | **0.481** | **mg/Kg** | 1 | 2/20/2008 |
| **Silver** | **0.102** | J | **0.019** | **0.481** | **mg/Kg** | 1 | 2/20/2008 |
| **Sodium** | **288** | | **8.8** | **48.1** | **mg/Kg** | 1 | 2/20/2008 |
| **Strontium** | **74.7** | | **0.096** | **0.481** | **mg/Kg** | 1 | 2/20/2008 |

**Qualifiers:**

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* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
P - Dual Column results RPD > 40%
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H - Analyzed outside of Hold Time

## e-Lab Analytical, Inc.

**Date:** *February 29, 2008*

**Client:** Malcolm Pirnie, Inc.
**Project:** Oro Grande LF
**Sample ID:** IDW-Comp
**Collection Date:** 2/14/2008 4:05:00 PM

**Work Order:** 0802326
**Lab ID:** 0802326-04
**Matrix:** SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Thallium | U | | 0.048 | 0.481 | mg/Kg | 1 | 2/20/2008 |
| **Tin** | **1.04** | J | **0.38** | **2.40** | **mg/Kg** | 1 | 2/20/2008 |
| **Titanium** | **114** | | **0.067** | **0.481** | **mg/Kg** | 1 | 2/20/2008 |
| **Vanadium** | **12.6** | | **0.054** | **0.481** | **mg/Kg** | 1 | 2/20/2008 |
| **Zinc** | **10.3** | | **0.096** | **0.481** | **mg/Kg** | 1 | 2/20/2008 |
| **ICP METALS, TOTAL - SW6020A** | | | Method: **SW6020** | | Prep: SW3050A / 2/22/08 | | Analyst: **SA** |
| **Lithium** | **5.22** | | **4.8** | **4.81** | **mg/Kg** | 1 | 2/27/2008 |
| **LOW-LEVEL TCL SEMIVOLATILE ORGANICS** | | | Method: **SW8270** | | Prep: SW3541 / 2/19/08 | | Analyst: **LG** |
| 1,1'-Biphenyl | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 2,4,5-Trichlorophenol | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 2,4,6-Trichlorophenol | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 2,4-Dichlorophenol | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 2,4-Dimethylphenol | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 2,4-Dinitrophenol | U | | 30 | 30 | µg/Kg | 1 | 2/20/2008 |
| 2,4-Dinitrotoluene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 2,6-Dinitrotoluene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 2-Chloronaphthalene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 2-Chlorophenol | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 2-Methylnaphthalene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 2-Methylphenol | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 2-Nitroaniline | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 2-Nitrophenol | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 3&4-Methylphenol | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 3,3'-Dichlorobenzidine | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 3-Nitroaniline | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 4,6-Dinitro-2-methylphenol | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 4-Bromophenyl phenyl ether | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 4-Chloro-3-methylphenol | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 4-Chloroaniline | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 4-Chlorophenyl phenyl ether | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| 4-Nitroaniline | U | | 30 | 30 | µg/Kg | 1 | 2/20/2008 |
| 4-Nitrophenol | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Acenaphthene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Acenaphthylene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Acetophenone | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Anthracene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Atrazine | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Benz(a)anthracene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Benzaldehyde | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |

**Qualifiers:**

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J - Analyte detected below quantitation limits
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## e-Lab Analytical, Inc.

**Date:** *February 29, 2008*

**Client:** Malcolm Pirnie, Inc.
**Project:** Oro Grande LF
**Sample ID:** IDW-Comp
**Collection Date:** 2/14/2008 4:05:00 PM

**Work Order:** 0802326
**Lab ID:** 0802326-04
**Matrix:** SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Benzo(b)fluoranthene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Benzo(g,h,i)perylene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Benzo(k)fluoranthene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Bis(2-chloroethoxy)methane | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Bis(2-chloroethyl)ether | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Bis(2-chloroisopropyl)ether | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| **Bis(2-ethylhexyl)phthalate** | **18** | | **6.6** | **6.6** | **µg/Kg** | 1 | 2/20/2008 |
| Butyl benzyl phthalate | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Caprolactam | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Carbazole | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Chrysene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| **Di-n-butyl phthalate** | **13** | | **6.6** | **6.6** | **µg/Kg** | 1 | 2/20/2008 |
| Di-n-octyl phthalate | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Dibenz(a,h)anthracene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Dibenzofuran | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Diethyl phthalate | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Dimethyl phthalate | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Fluoranthene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Fluorene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Hexachlorobenzene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Hexachlorobutadiene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Hexachlorocyclopentadiene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Hexachloroethane | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Indeno(1,2,3-cd)pyrene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Isophorone | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| N-Nitrosodi-n-propylamine | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| N-Nitrosodiphenylamine | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Naphthalene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Nitrobenzene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Pentachlorophenol | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Phenanthrene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Phenol | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| Pyrene | U | | 6.6 | 6.6 | µg/Kg | 1 | 2/20/2008 |
| *Surr: 2,4,6-Tribromophenol* | *69.6* | | | *36-126* | *%REC* | 1 | 2/20/2008 |
| *Surr: 2-Fluorobiphenyl* | *76.8* | | | *43-125* | *%REC* | 1 | 2/20/2008 |
| *Surr: 2-Fluorophenol* | *80.7* | | | *37-125* | *%REC* | 1 | 2/20/2008 |
| *Surr: 4-Terphenyl-d14* | *94.3* | | | *32-125* | *%REC* | 1 | 2/20/2008 |
| *Surr: Nitrobenzene-d5* | *70.4* | | | *37-125* | *%REC* | 1 | 2/20/2008 |
| *Surr: Phenol-d6* | *86.0* | | | *40-125* | *%REC* | 1 | 2/20/2008 |

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H - Analyzed outside of Hold Time

## e-Lab Analytical, Inc.

**Date:** *February 29, 2008*

**Client:** Malcolm Pirnie, Inc.
**Project:** Oro Grande LF
**Sample ID:** IDW-Comp
**Collection Date:** 2/14/2008 4:05:00 PM

**Work Order:** 0802326
**Lab ID:** 0802326-04
**Matrix:** SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **TCL VOLATILE ORGANICS** | | Method: **SW8260** | | | | | Analyst: **RKG** |
| 1,1,1-Trichloroethane | U | | 0.70 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| 1,1,2,2-Tetrachloroethane | U | | 0.50 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| 1,1,2-Trichlor-1,2,2-trifluoroethane | U | | 0.70 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| 1,1,2-Trichloroethane | U | | 0.50 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| 1,1-Dichloroethane | U | | 0.80 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| 1,1-Dichloroethene | U | | 1.0 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| 1,2,4-Trichlorobenzene | U | | 0.60 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| 1,2-Dibromo-3-chloropropane | U | | 0.80 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| 1,2-Dibromoethane | U | | 0.60 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| 1,2-Dichlorobenzene | U | | 0.60 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| 1,2-Dichloroethane | U | | 0.60 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| 1,2-Dichloropropane | U | | 0.60 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| 1,3-Dichlorobenzene | U | | 0.70 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| 1,4-Dichlorobenzene | U | | 0.70 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| 2-Butanone | U | | 0.70 | 10 | µg/Kg | 1 | 2/26/2008 |
| 2-Hexanone | U | | 1.0 | 10 | µg/Kg | 1 | 2/26/2008 |
| 4-Methyl-2-pentanone | U | | 1.0 | 10 | µg/Kg | 1 | 2/26/2008 |
| Acetone | U | | 2.0 | 25 | µg/Kg | 1 | 2/26/2008 |
| Benzene | U | | 0.60 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| Bromodichloromethane | U | | 0.80 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| Bromoform | U | | 0.50 | 10 | µg/Kg | 1 | 2/26/2008 |
| Bromomethane | U | | 1.0 | 10 | µg/Kg | 1 | 2/26/2008 |
| Carbon disulfide | U | | 1.2 | 10 | µg/Kg | 1 | 2/26/2008 |
| Carbon tetrachloride | U | | 1.0 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| Chlorobenzene | U | | 0.70 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| Chloroethane | U | | 1.6 | 10 | µg/Kg | 1 | 2/26/2008 |
| Chloroform | U | | 0.90 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| Chloromethane | U | | 1.1 | 10 | µg/Kg | 1 | 2/26/2008 |
| cis-1,2-Dichloroethene | U | | 0.80 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| cis-1,3-Dichloropropene | U | | 0.60 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| Cyclohexane | U | | 1.0 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| Dibromochloromethane | U | | 0.60 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| Dichlorodifluoromethane | U | | 0.80 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| Dichloromethane | U | | 3.0 | 10 | µg/Kg | 1 | 2/26/2008 |
| Ethylbenzene | U | | 0.80 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| Isopropylbenzene | U | | 0.60 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| Methyl acetate | U | | 1.0 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| Methyl tert-butyl ether | U | | 0.80 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| Methylcyclohexane | U | | 0.80 | 5.0 | µg/Kg | 1 | 2/26/2008 |

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## e-Lab Analytical, Inc.

**Date:** *February 29, 2008*

**Client:** Malcolm Pirnie, Inc.
**Project:** Oro Grande LF
**Sample ID:** IDW-Comp
**Collection Date:** 2/14/2008 4:05:00 PM

**Work Order:** 0802326
**Lab ID:** 0802326-04
**Matrix:** SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Styrene | U | | 0.70 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| Tetrachloroethene | U | | 0.60 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| Toluene | U | | 0.60 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| trans-1,2-Dichloroethene | U | | 1.0 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| trans-1,3-Dichloropropene | U | | 0.60 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| Trichloroethene | U | | 0.60 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| Trichlorofluoromethane | U | | 0.60 | 5.0 | µg/Kg | 1 | 2/26/2008 |
| Vinyl chloride | U | | 0.60 | 2.0 | µg/Kg | 1 | 2/26/2008 |
| Xylenes, Total | U | | 1.5 | 15 | µg/Kg | 1 | 2/26/2008 |
| *Surr: 1,2-Dichloroethane-d4* | *101* | | | *70-128* | *%REC* | 1 | 2/26/2008 |
| *Surr: 4-Bromofluorobenzene* | *100* | | | *73-126* | *%REC* | 1 | 2/26/2008 |
| *Surr: Dibromofluoromethane* | *101* | | | *71-128* | *%REC* | 1 | 2/26/2008 |
| *Surr: Toluene-d8* | *98.2* | | | *73-127* | *%REC* | 1 | 2/26/2008 |
| **CYANIDE, TOTAL** | | Method: **SW9014** | | | | | Analyst: **RPM** |
| Cyanide | U | | 0.60 | 2.00 | mg/Kg | 1 | 2/25/2008 |
| Cyanide, Amenable to Chlorination | U | | 0.60 | 2.00 | mg/Kg | 1 | 2/25/2008 |
| **PERCENT MOISTURE** | | Method: **E160.3** | | | | | Analyst: **TL** |
| **Percent Moisture** | **1.92** | | **0.010** | **0.0100** | **wt%** | 1 | 2/19/2008 |
| **PHOSPHORUS, TOTAL** | | Method: **E365.3** | | | Prep: E365.3 / 2/26/08 | | Analyst: **DM** |
| Phosphorus, Dissolved (As P) | U | | 0.65 | 0.650 | mg/Kg | 5 | 2/26/2008 |
| **Phosphorus, Total (As P)** | **106** | | **1.0** | **2.50** | **mg/Kg** | 5 | 2/26/2008 |
| Phosphorus, Total Orthophosphate (As P) | U | | 0.65 | 0.650 | mg/Kg | 5 | 2/26/2008 |
| **SILICA AS SIO2, SOLUBLE** | | Method: **SM4500-SID** | | | | | Analyst: **IGF** |
| **Silica, Dissolved (as SiO2)** | **19.6** | | **0.020** | **0.100** | **mg/kg** | 1 | 2/26/2008 |

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