

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355  
MATRIX: SOIL  
DATE SAMPLED: 07/30/13  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 07/30/13  
DATE EXTRACTED: 07/31/13  
DATE ANALYZED: 08/01/13  
DATE REPORTED: 08/06/13

SAMPLE I.D.: HP-6@5.0'

LAB I.D.: 130730-69

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	0.001	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

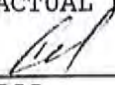
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

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SAMPLE I.D.: HP-7@1.0'

LAB I.D.: 130730-70

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	100
alpha-BHC	ND	0.001	100
beta-BHC	ND	0.001	100
gamma-BHC (Lindane)	ND	0.001	100
delta-BHC	ND	0.001	100
alpha-Chlordane	ND	0.001	100
gamma-Chlordane	ND	0.001	100
Total Chlordane (Technical)	ND	0.005	100
4,4'-DDD	ND	0.001	100
4,4'-DDE	0.381	0.001	100
4,4'-DDT	ND	0.001	100
Dieldrin	ND	0.001	100
Endosulfan I	ND	0.001	100
Endosulfan II	ND	0.001	100
Endosulfan Sulfate	ND	0.001	100
Endrin	ND	0.001	100
Endrin Aldehyde	ND	0.001	100
Endrin Ketone	ND	0.001	100
Heptachlor Epoxide	ND	0.001	100
Heptachlor	ND	0.001	100
Methoxychlor	ND	0.001	100
Toxaphene	ND	0.020	100

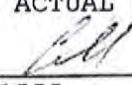
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SAMPLE I.D.: **HP-7@3.0'**

LAB I.D.: **130730-71**

**Organochlorine Pesticides Analysis**

Method: **EPA 8081A**

Unit: **mg/Kg = Milligram Per Kilogram = PPM**

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	10
alpha-BHC	ND	0.001	10
beta-BHC	ND	0.001	10
gamma-BHC (Lindane)	ND	0.001	10
delta-BHC	ND	0.001	10
alpha-Chlordane	ND	0.001	10
gamma-Chlordane	ND	0.001	10
Total Chlordane (Technical)	ND	0.005	10
4,4'-DDD	ND	0.001	10
4,4'-DDE	0.012	0.001	10
4,4'-DDT	ND	0.001	10
Dieldrin	ND	0.001	10
Endosulfan I	ND	0.001	10
Endosulfan II	ND	0.001	10
Endosulfan Sulfate	ND	0.001	10
Endrin	ND	0.001	10
Endrin Aldehyde	ND	0.001	10
Endrin Ketone	ND	0.001	10
Heptachlor Epoxide	ND	0.001	10
Heptachlor	ND	0.001	10
Methoxychlor	ND	0.001	10
Toxaphene	ND	0.020	10

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SAMPLE I.D.: HP-7@5.0'

LAB I.D.: 130730-72

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	0.002	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

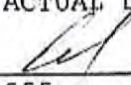
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SAMPLE I.D.: **HP-8@1.0'**

LAB I.D.: **130730-73**

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1000
alpha-BHC	ND	0.001	1000
beta-BHC	ND	0.001	1000
gamma-BHC (Lindane)	ND	0.001	1000
delta-BHC	ND	0.001	1000
alpha-Chlordane	ND	0.001	1000
gamma-Chlordane	ND	0.001	1000
Total Chlordane (Technical)	ND	0.005	1000
4,4'-DDD	ND	0.001	1000
4,4'-DDE	1.28	0.001	1000
4,4'-DDT	ND	0.001	1000
Dieldrin	ND	0.001	1000
Endosulfan I	ND	0.001	1000
Endosulfan II	ND	0.001	1000
Endosulfan Sulfate	ND	0.001	1000
Endrin	ND	0.001	1000
Endrin Aldehyde	ND	0.001	1000
Endrin Ketone	ND	0.001	1000
Heptachlor Epoxide	ND	0.001	1000
Heptachlor	ND	0.001	1000
Methoxychlor	ND	0.001	1000
Toxaphene	ND	0.020	1000

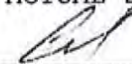
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SAMPLE I.D.: HP-8@3.0'

LAB I.D.: 130730-74

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	50
alpha-BHC	ND	0.001	50
beta-BHC	ND	0.001	50
gamma-BHC (Lindane)	ND	0.001	50
delta-BHC	ND	0.001	50
alpha-Chlordane	ND	0.001	50
gamma-Chlordane	ND	0.001	50
Total Chlordane (Technical)	ND	0.005	50
4,4'-DDD	ND	0.001	50
4,4'-DDE	0.100	0.001	50
4,4'-DDT	ND	0.001	50
Dieldrin	ND	0.001	50
Endosulfan I	ND	0.001	50
Endosulfan II	ND	0.001	50
Endosulfan Sulfate	ND	0.001	50
Endrin	ND	0.001	50
Endrin Aldehyde	ND	0.001	50
Endrin Ketone	ND	0.001	50
Heptachlor Epoxide	ND	0.001	50
Heptachlor	ND	0.001	50
Methoxychlor	ND	0.001	50
Toxaphene	ND	0.020	50

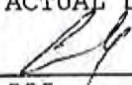
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SAMPLE I.D.: HP-8@5.0'

LAB I.D.: 130730-75

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	0.001	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

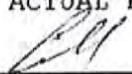
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SAMPLE I.D.: HP-9@1.0'

LAB I.D.: 130730-76

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	500
alpha-BHC	ND	0.001	500
beta-BHC	ND	0.001	500
gamma-BHC (Lindane)	ND	0.001	500
delta-BHC	ND	0.001	500
alpha-Chlordane	ND	0.001	500
gamma-Chlordane	ND	0.001	500
Total Chlordane (Technical)	ND	0.005	500
4,4'-DDD	ND	0.001	500
4,4'-DDE	1.32	0.001	500
4,4'-DDT	ND	0.001	500
Dieldrin	ND	0.001	500
Endosulfan I	ND	0.001	500
Endosulfan II	ND	0.001	500
Endosulfan Sulfate	ND	0.001	500
Endrin	ND	0.001	500
Endrin Aldehyde	ND	0.001	500
Endrin Ketone	ND	0.001	500
Heptachlor Epoxide	ND	0.001	500
Heptachlor	ND	0.001	500
Methoxychlor	ND	0.001	500
Toxaphene	ND	0.020	500

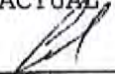
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SAMPLE I.D.: HP-9@3.0'

LAB I.D.: 130730-77

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	10*
alpha-BHC	ND	0.001	10*
beta-BHC	ND	0.001	10*
gamma-BHC (Lindane)	ND	0.001	10*
delta-BHC	ND	0.001	10*
alpha-Chlordane	ND	0.001	10*
gamma-Chlordane	ND	0.001	10*
Total Chlordane (Technical)	ND	0.005	10*
4,4'-DDD	ND	0.001	10*
4,4'-DDE	ND	0.001	10*
4,4'-DDT	ND	0.001	10*
Dieldrin	ND	0.001	10*
Endosulfan I	ND	0.001	10*
Endosulfan II	ND	0.001	10*
Endosulfan Sulfate	ND	0.001	10*
Endrin	ND	0.001	10*
Endrin Aldehyde	ND	0.001	10*
Endrin Ketone	ND	0.001	10*
Heptachlor Epoxide	ND	0.001	10*
Heptachlor	ND	0.001	10*
Methoxychlor	ND	0.001	10*
Toxaphene	ND	0.020	10*

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

\* = ACTUAL DETECTION LIMIT RAISED DUE TO MATRIX INTERFERENCE

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SAMPLE I.D.: HP-9@5.0'

LAB I.D.: 130730-78

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	10*
alpha-BHC	ND	0.001	10*
beta-BHC	ND	0.001	10*
gamma-BHC (Lindane)	ND	0.001	10*
delta-BHC	ND	0.001	10*
alpha-Chlordane	ND	0.001	10*
gamma-Chlordane	ND	0.001	10*
Total Chlordane (Technical)	ND	0.005	10*
4,4'-DDD	ND	0.001	10*
4,4'-DDE	ND	0.001	10*
4,4'-DDT	ND	0.001	10*
Dieldrin	ND	0.001	10*
Endosulfan I	ND	0.001	10*
Endosulfan II	ND	0.001	10*
Endosulfan Sulfate	ND	0.001	10*
Endrin	ND	0.001	10*
Endrin Aldehyde	ND	0.001	10*
Endrin Ketone	ND	0.001	10*
Heptachlor Epoxide	ND	0.001	10*
Heptachlor	ND	0.001	10*
Methoxychlor	ND	0.001	10*
Toxaphene	ND	0.020	10*

#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

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SAMPLE I.D.: HP-10@1.0'

LAB I.D.: 130730-79

## Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	500
alpha-BHC	ND	0.001	500
beta-BHC	ND	0.001	500
gamma-BHC (Lindane)	ND	0.001	500
delta-BHC	ND	0.001	500
alpha-Chlordane	ND	0.001	500
gamma-Chlordane	ND	0.001	500
Total Chlordane (Technical)	ND	0.005	500
4,4'-DDD	ND	0.001	500
4,4'-DDE	1.70	0.001	500
4,4'-DDT	ND	0.001	500
Dieldrin	ND	0.001	500
Endosulfan I	ND	0.001	500
Endosulfan II	ND	0.001	500
Endosulfan Sulfate	ND	0.001	500
Endrin	ND	0.001	500
Endrin Aldehyde	ND	0.001	500
Endrin Ketone	ND	0.001	500
Heptachlor Epoxide	ND	0.001	500
Heptachlor	ND	0.001	500
Methoxychlor	ND	0.001	500
Toxaphene	ND	0.020	500

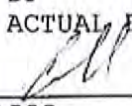
### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

# LABORATORY REPORT

CUSTOMER: **Petra Geotechnical Inc.**  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355  
MATRIX: SOIL  
DATE SAMPLED: 07/30/13  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 07/30/13  
DATE EXTRACTED: 07/31/13  
DATE ANALYZED: 08/01/13  
DATE REPORTED: 08/06/13

SAMPLE I.D.: HP-10@3.0'

LAB I.D.: 130730-80

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	100
alpha-BHC	ND	0.001	100
beta-BHC	ND	0.001	100
gamma-BHC (Lindane)	ND	0.001	100
delta-BHC	ND	0.001	100
alpha-Chlordane	ND	0.001	100
gamma-Chlordane	ND	0.001	100
Total Chlordane (Technical)	ND	0.005	100
4,4'-DDD	ND	0.001	100
4,4'-DDE	0.121	0.001	100
4,4'-DDT	ND	0.001	100
Dieldrin	ND	0.001	100
Endosulfan I	ND	0.001	100
Endosulfan II	ND	0.001	100
Endosulfan Sulfate	ND	0.001	100
Endrin	ND	0.001	100
Endrin Aldehyde	ND	0.001	100
Endrin Ketone	ND	0.001	100
Heptachlor Epoxide	ND	0.001	100
Heptachlor	ND	0.001	100
Methoxychlor	ND	0.001	100
Toxaphene	ND	0.020	100

**COMMENTS:**

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355  
MATRIX: SOIL  
DATE SAMPLED: 07/30/13  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 07/30/13  
DATE EXTRACTED: 07/31/13  
DATE ANALYZED: 08/01/13  
DATE REPORTED: 08/06/13

SAMPLE I.D.: HP-10@5.0'

LAB I.D.: 130730-81

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	10
alpha-BHC	ND	0.001	10
beta-BHC	ND	0.001	10
gamma-BHC (Lindane)	ND	0.001	10
delta-BHC	ND	0.001	10
alpha-Chlordane	ND	0.001	10
gamma-Chlordane	ND	0.001	10
Total Chlordane (Technical)	ND	0.005	10
4,4'-DDD	ND	0.001	10
4,4'-DDE	0.015	0.001	10
4,4'-DDT	ND	0.001	10
Dieldrin	ND	0.001	10
Endosulfan I	ND	0.001	10
Endosulfan II	ND	0.001	10
Endosulfan Sulfate	ND	0.001	10
Endrin	ND	0.001	10
Endrin Aldehyde	ND	0.001	10
Endrin Ketone	ND	0.001	10
Heptachlor Epoxide	ND	0.001	10
Heptachlor	ND	0.001	10
Methoxychlor	ND	0.001	10
Toxaphene	ND	0.020	10

#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355  
MATRIX: SOIL  
DATE SAMPLED: 07/30/13  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 07/30/13  
DATE EXTRACTED: 07/31/13  
DATE ANALYZED: 08/01/13  
DATE REPORTED: 08/06/13

SAMPLE I.D.: HP-17@0.5'

LAB I.D.: 130730-94

## Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

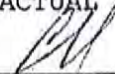
### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355  
MATRIX: SOIL  
DATE SAMPLED: 07/30/13  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 07/30/13  
DATE EXTRACTED: 07/31/13  
DATE ANALYZED: 08/01/13  
DATE REPORTED: 08/06/13

SAMPLE I.D.: HP-17@0.5' Duplicate

LAB I.D.: 130730-95

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355  
MATRIX: SOIL  
DATE SAMPLED: 07/30/13  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 07/30/13  
DATE EXTRACTED: 07/31/13  
DATE ANALYZED: 08/01/13  
DATE REPORTED: 08/06/13

SAMPLE I.D.: HP-1@1.0'

LAB I.D.: 130730-98

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	100
alpha-BHC	ND	0.001	100
beta-BHC	ND	0.001	100
gamma-BHC (Lindane)	ND	0.001	100
delta-BHC	ND	0.001	100
alpha-Chlordane	ND	0.001	100
gamma-Chlordane	ND	0.001	100
Total Chlordane (Technical)	ND	0.005	100
4,4'-DDD	ND	0.001	100
4,4'-DDE	0.215	0.001	100
4,4'-DDT	ND	0.001	100
Dieldrin	ND	0.001	100
Endosulfan I	ND	0.001	100
Endosulfan II	ND	0.001	100
Endosulfan Sulfate	ND	0.001	100
Endrin	ND	0.001	100
Endrin Aldehyde	ND	0.001	100
Endrin Ketone	ND	0.001	100
Heptachlor Epoxide	ND	0.001	100
Heptachlor	ND	0.001	100
Methoxychlor	ND	0.001	100
Toxaphene	ND	0.020	100

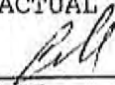
**COMMENTS:**

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555



Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

# METHOD BLANK REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355  
MATRIX: SOIL  
DATE SAMPLED: 07/30/13  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 07/30/13  
DATE EXTRACTED: 07/31/13  
DATE ANALYZED: 08/01/13  
DATE REPORTED: 08/06/13

METHOD BLANK FOR LAB I.D.: 130730-69 THROUGH -81, -94, -95, -98

## Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

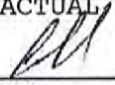
### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555





Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

# METHOD BLANK REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355  
MATRIX: WATER  
DATE SAMPLED: 07/30/13  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 07/30/13  
DATE EXTRACTED: 07/30/13  
DATE ANALYZED: 07/31/13  
DATE REPORTED: 08/06/13

METHOD BLANK FOR LAB I.D.: 130730-99

## Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: ug/L = Microgram per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.100	1
alpha-BHC	ND	0.100	1
beta-BHC	ND	0.100	1
gamma-BHC (Lindane)	ND	0.100	1
delta-BHC	ND	0.100	1
alpha-Chlordane	ND	0.100	1
gamma-Chlordane	ND	0.100	1
Total Chlordane (Technical)	ND	0.500	1
4,4'-DDD	ND	0.100	1
4,4'-DDE	ND	0.100	1
4,4'-DDT	ND	0.100	1
Dieldrin	ND	0.100	1
Endosulfan I	ND	0.100	1
Endosulfan II	ND	0.100	1
Endosulfan Sulfate	ND	0.100	1
Endrin	ND	0.100	1
Endrin Aldehyde	ND	0.100	1
Endrin Ketone	ND	0.100	1
Heptachlor Epoxide	ND	0.100	1
Heptachlor	ND	0.100	1
Methoxychlor	ND	0.100	1
Toxaphene	ND	2.00	1

### COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Non detected or below the Actual Detection Limit

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555



**Enviro-Chem, Inc.**

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

**EPA 8081A QA/QC Report**

Matrix: Water/Liquid  
Unit: ug/L

Date Analyzed: 7/31/2013

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.:** 130731-LCS 1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0	0.250	0.278	111%	0.280	112%	1%	0-20%	70-130
Aldrin	0	0.250	0.285	114%	0.288	115%	1%	0-20%	70-130
4,4-DDE	0	0.250	0.246	98%	0.259	104%	5%	0-20%	70-130

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.500	0.507	101%	75-125
Aldrin	0.500	0.514	103%	75-125
4,4-DDE	0.500	0.495	99%	75-125
Dieldrin	0.500	0.473	95%	75-125

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		M-BLK	130730-19	130730-20	130730-21	130730-99			
Tetra-chloro-meta-xylene	50-150	91%	89%	135%	91%	99%			
Decachlorobipneyl	50-150	71%	73%	119%	65%	82%			

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>									
Tetra-chloro-meta-xylene									
Decachlorobipneyl									

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>						
Tetra-chloro-meta-xylene						
Decachlorobipneyl						

S.R. = Sample Result  
 spk conc = Spike Concentration  
 %REC = Percent Recovery  
 ACP %RPD = Acceptable Percent RPD Range  
 ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By:     An    

\* = Surrogate fail due to matrix interference

Note: LCS, MS, MSD are in control therefore results are in control.

Final Reviewer:     Cb

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CADMS ELAP CERTIFICATE # 1555**

**Turnaround Time**  
 0 Same Day  
 0 24 Hours  
 0 48 Hours  
 0 72 Hours  
 0 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS	Misc.
HP-1 @ 1.0'	130730-52	07-30-13 08:45	Soil	1	None	X			
HP-1 @ 3.0'	-53					X			
HP-1 @ 5.0'	-54					X			
HP-2 @ 1.0'	-55					X			
HP-2 @ 3.0'	-56					X			
HP-2 @ 5.0'	-57					X			
HP-3 @ 1.0'	-58					X			
HP-3 @ 3.0'	-59					X			
HP-3 @ 5.0'	-60					X			
HP-4 @ 1.0'	-61					X			
HP-4 @ 3.0'	-62					X			
HP-4 @ 5.0'	-63					X			
HP-5 @ 1.0'	-64					X			
HP-5 @ 3.0'	-65					X			
HP-5 @ 5.0'	-66					X			

ICP's 80081A  
 TPH Carbon Chain  
 8015B  
 CAM Title 22  
 6010B/7471A

Company Name: **Tetra Geotechnical Inc.**

Project Contact: **Tom Cain**

Sample Signatures:

Address: **40880 Coenry Center Dr.**

Tel: **951-600-9271**

Project Name/ID: **12-355**

City/State/Zip: **Temecula, CA 92591**

Fax: **951-719-1499**

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

Relinquished by:

Received by:

Date & Time: **7/30/13 2:45pm**

**CHAIN OF CUSTODY RECORD**

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
 CA-DHS ELAP CERTIFICATE # 1555

**Turnaround Time**  
 0 Same Day  
 0 24 Hours  
 0 48 Hours  
 0 72 Hours  
 0 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE	TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS
HP-6 @ 1.0'	30-130-67	07-30-13	9:35	Soil	1		NONE	X	
HP-6 @ 3.0'	-68		9:35					X	
HP-6 @ 5.0'	-69		9:35					X	
HP-7 @ 1.0'	-70		10:03					X	
HP-7 @ 3.0'	-71		10:03					X	
HP-7 @ 5.0'	-72		10:04					X	
HP-8 @ 1.0'	-73		10:12					X	
HP-8 @ 3.0'	-74		10:12					X	
HP-8 @ 5.0'	-75		10:14					X	
HP-9 @ 1.0'	-76		10:19					X	
HP-9 @ 3.0'	-77		10:19					X	
HP-9 @ 5.0'	-78		10:22					X	
HP-10 @ 1.0'	-79		10:28					X	
HP-10 @ 3.0'	-80		10:27					X	
HP-10 @ 5.0'	-81		10:29					X	

OCPs PCBs

Company Name: Petra Geotechnical Inc. Project Contact: Jon Cain Sampler's Signature: [Signature]

Address: 40880 County Center Dr. Tel: 951-600-9271 Project Name/ID: 12-355

City/State/Zip: Temecula CA 92591 Fax: 951-719-1499

Relinquished by: [Signature] Received by: [Signature] Date & Time: 07-30-13 2:45pm

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
 CA-DHS ELAP CERTIFICATE # 1555

**Turnaround Time**  
 0 Same Day  
 0 24 Hours  
 0 48 Hours  
 0 72 Hours  
 0 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE	TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS
HP-13 @ 0.5'	3030-82	07-20-13	9:50	Soil	1		None	XX	
HP-13 @ 2.0'	83		9:49					XX	
HP-13 @ 5.0'	84		9:52						
HP-14 @ 0.5'	85		10:42					XX	
HP-14 @ 2.0'	86		10:42					XX	
HP-14 @ 5.0'	87		10:44						
HP-15 @ 0.5'	88		11:16					XX	
HP-15 @ 2.0'	89		11:16						
HP-15 @ 5.0'	90		11:18						
HP-16 @ 5.0'	91		11:00	Soil	1		None		
HP-16 @ 7.0'	92		10:59						
HP-16 @ 8.0'	93		11:06						Refused @ 8'
HP-17 @ 0.5'	94	07-20-13	11:26					XX	
HP-17 @ 0.5'	95		11:26					XX	
HP-17 @ 2.0'	96		11:26						Duplicate

DGP's 8081A  
 TPH Carbon chain  
 8015B  
 CAM T.H. 22  
 6010B/7471

Company Name: **Tetra Geotechnical Inc.**

Project Contact: **Jon Cain**

Sampler's Signature: *[Signature]*

Address: **40880 Cooney Center Dr.**

Tel: **951-600-9271**

Project Name/ID: **12-355**

City/State/Zip: **Temecula CA 92591**

Fax: **951-719-1499**

Relinquished by: *[Signature]*

Received by: *[Signature]*

Date & Time: **7/20/13 2:45pm**

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

Relinquished by: *[Signature]*

Received by: *[Signature]*

Date & Time:

**CHAIN OF CUSTODY RECORD**



**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
 CADMS ELAP CERTIFICATE # 1555

**Turnaround Time**  
 0 Same Day  
 0 24 Hours  
 0 48 Hours  
 0 72 Hours  
 0 1 Week (Standard)  
 Other

SAMPLE ID	LAB ID	SAMPLING DATE TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS	Misc.
HP-1705.0'	130730-97	07-30-13 11:28	soil	1		None			
HP-1705.0'	-98	07-30-13 8:50	soil	1		None		Duplicate	
HP-1705.0'	-99	07-30-13 11:32	water	1	4A	H2SO4		Pinset # 1	
HP-1705.0'	-100	07-30-13 11:35	↓	↓		↓		Pinset # 2	
HP-1705.0'	-101	07-30-13 11:35	↓	↓		↓		Pinset # 3	

OTPs: 8081A  
 TPH Cartridge  
 0015P  
 AM TIME 22  
 09/07/17 477

**Company Name:** Petra Geotechnical Inc. **Project Contact:** Jon Cain  
**Address:** 40880 County Center Dr. **Tel:** 951-600-9271  
**City/State/Zip:** Temecula, CA 92591 **Fax:** 951-719-1499  
**Project Name/ID:** 12-355

**Relinquished by:** [Signature] **Received by:** [Signature]  
**Date & Time:** 07-30-13 2:54 **Date & Time:** 7/30/13 2:45pm  
**Relinquished by:** [Signature] **Received by:** [Signature]

**Relinquished by:** [Signature] **Received by:** [Signature]  
**Date & Time:** [Signature] **Date & Time:** [Signature]

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other

**CHAIN OF CUSTODY RECORD**

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
 CA-DHS ELAP CERTIFICATE # 1555

**Turnaround Time**  
 0 Same Day  
 0 24 Hours  
 0 48 Hours  
 0 72 Hours  
 0 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS
HP-13 @ 0.5'	3030-82	02-22-13	9:50	Soil	1		None	X	
HP-13 @ 2.0'	83		9:49					X	
HP-13 @ 5.0'	84		9:52					X	
HP-14 @ 0.5'	85		10:42					X	
HP-14 @ 2.0'	86		10:42					X	
HP-14 @ 5.0'	87		10:44					X	
HP-15 @ 0.5'	88		11:16					X	
HP-15 @ 2.0'	89		11:16					X	
HP-15 @ 5.0'	90		11:18	Soil				X	
HP-16 @ 5.0'	91		11:00				None	X	
HP-16 @ 7.0'	92		11:59					X	
HP-16 @ 8.0'	93		11:06					X	Refused @ 8'
HP-17 @ 0.5'	94	02-22-13	11:26					X	
HP-17 @ 0.5'	95		11:26					X	
HP-17 @ 2.0'	96		11:26					X	

DCP's 5081A  
 TPH Carbon 4/2/13  
 2015B  
 CAM till 2/22/13  
 1777/130109

Company Name: **Petra Geotechnical Inc.** Project Contact: **Jon Cain**  
 Address: **40880 Cooney Center Dr.** Tel: **951-688-9271**  
 City/State/Zip: **Temecula CA 92591** Fax: **951-719-1499**  
 Project Name/ID: **12-355**

Relinquished by: **[Signature]** Received by: **[Signature]** Date & Time: **1/30/13 2:47pm**  
 Relinquished by: **[Signature]** Received by: **[Signature]** Date & Time: **[Blank]**  
 Relinquished by: **[Signature]** Received by: **[Signature]** Date & Time: **[Blank]**

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other

**CHAIN OF CUSTODY RECORD**

**Enviro - Chem, Inc.**

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: August 16, 2013

Mr. Jon Cain  
Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel(951)600-9271 Fax(951)600-9215

Project: **12-355**  
Lab I.D.: **130730-52 through -99**

Dear Mr. Cain:

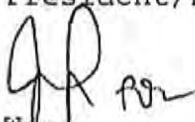
The **additional analytical results** for the soil and water samples, received by our lab on July 30, 2013, are attached. The samples were received chilled, intact, accompanying chain of custody and also stored per the EPA protocols.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manager



Andy Wang  
Laboratory Manager

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

# LABORATORY REPORT

CUSTOMER: **Petra Geotechnical Inc.**  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355  
MATRIX: SOIL  
DATE SAMPLED: 07/30/13  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 07/30/13  
DATE EXTRACTED: 08/13/13  
DATE ANALYZED: 08/13/13  
DATE REPORTED: 08/16/13

-----  
**TOTAL PETROLEUM HYDROCARBONS (TPH) - CARBON CHAIN ANALYSIS**  
METHOD: EPA 8015B  
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM  
-----

SAMPLE I.D.	LAB I.D.	C4-C10	C11-C22	C23-C35	DF
<u>HP-13@2.0'</u>	130730-83	ND	ND	ND	<u>1</u>
<u>HP-13@5.0'</u>	130730-84	ND	ND	ND	<u>1</u>
<u>HP-14@2.0'</u>	130730-86	ND	ND	ND	<u>1</u>
<u>HP-14@5.0'</u>	130730-87	ND	ND	ND	<u>1</u>
<u>METHOD BLANK</u>		ND	ND	ND	<u>1</u>
	<b>PQL</b>	<b>10</b>	<b>10</b>	<b>50</b>	

**COMMENTS**

C4-C10 = GASOLINE RANGE

C11-C22 = DIESEL RANGE


C23-C35 = MOTOR OIL RANGE

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = DF X PQL

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

Data Reviewed and Approved by:   
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro Chem, Inc

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

### 8015B QA/QC Report

Date Analyzed: 8/13/2013

Units: mg/Kg (ppm)

Matrix: Soil/Solid/Sludge/Liquid

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **130809-4 MS/MSD**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11~C22 Range	0	200	209	105%	207	104%	1%	75-125	0-20%

**LCS STD RECOVERY:**

Analyte	spk conc	LCS	% REC	ACP
C11~C22 Range	200	208	104%	75-125

Analyzed and Reviewed By: Aw

Final Reviewer: Ⓟ

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355

MATRIX: SOIL

DATE SAMPLED: 07/30/13

REPORT TO: MR. JON CAIN

DATE RECEIVED: 07/30/13

DATE ANALYZED: 08/13/13

DATE REPORTED: 08/16/13

SAMPLE I.D.: HP-13@2.0'

LAB I.D.: 130730-83

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	ND	0.3	1	500	5.0	6010B
Barium (Ba)	59.4	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	137 **	0.5	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.1	1	500	5.0	7196A
Cobalt (Co)	14.4	1.0	1	8,000	80	6010B
Copper (Cu)	13.6	1.0	1	2,500	25	6010B
Lead (Pb)	0.998	0.5	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	35.0	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	99.6	5.0	1	2,400	24	6010B
Zinc (Zn)	30.7	0.5	1	5,000	250	6010B

### COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

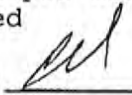
@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

# LABORATORY REPORT

CUSTOMER: **Petra Geotechnical Inc.**  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355

MATRIX: SOIL

DATE SAMPLED: 07/30/13

REPORT TO: MR. JON CAIN

DATE RECEIVED: 07/30/13

DATE ANALYZED: 08/13/13

DATE REPORTED: 08/16/13

SAMPLE I.D.: **HP-13@5.0'**

LAB I.D.: 130730-84

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLT LIMIT	STLT LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	ND	0.3	1	500	5.0	6010B
Barium (Ba)	68.1	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	113 **	0.5	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.1	1	500	5.0	7196A
Cobalt (Co)	11.6	1.0	1	8,000	80	6010B
Copper (Cu)	17.6	1.0	1	2,500	25	6010B
Lead (Pb)	0.596	0.5	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	32.1	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	66.6	5.0	1	2,400	24	6010B
Zinc (Zn)	36.4	0.5	1	5,000	250	6010B

### COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLT = Soluble Threshold Limit Concentration


@ = Must meet both the STLT Limit at 560 and EPA-TCLP Limit at 5

\* = STLT analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355

MATRIX: SOIL

DATE SAMPLED: 07/30/13

REPORT TO: MR. JON CAIN

DATE RECEIVED: 07/30/13

DATE ANALYZED: 08/13/13

DATE REPORTED: 08/16/13

SAMPLE I.D.: HP-14@2.0'

LAB I.D.: 130730-86

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	1.48	0.3	1	500	5.0	6010B
Barium (Ba)	91.6	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	113 **	0.5	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.1	1	500	5.0	7196A
Cobalt (Co)	13.8	1.0	1	8,000	80	6010B
Copper (Cu)	14.0	1.0	1	2,500	25	6010B
Lead (Pb)	2.53	0.5	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	28.0	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	87.5	5.0	1	2,400	24	6010B
Zinc (Zn)	33.8	0.5	1	5,000	250	6010B

### COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

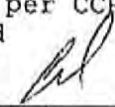
@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555



Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.
38655 Sky Canyon Drive
Murrieta, CA 92563
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355

MATRIX: SOIL

DATE SAMPLED: 07/30/13

REPORT TO: MR. JON CAIN

DATE RECEIVED: 07/30/13

DATE ANALYZED: 08/13/13

DATE REPORTED: 08/16/13

SAMPLE I.D.: HP-14@5.0'

LAB I.D.: 130730-87

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

Table with 7 columns: ELEMENT ANALYZED, SAMPLE RESULT, PQL, DF, TTLC LIMIT, STLC LIMIT, EPA METHOD. Lists various elements like Antimony, Arsenic, Barium, etc., with their respective values and limits.

COMMENTS

- DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
\* = STLC analysis for the metal is recommended (if marked)
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-- = Not analyzed/not requested

Data Reviewed and Approved by: [Signature]
CAL-DHS ELAP CERTIFICATE No.: 1555

## METHOD BLANK REPORT

CUSTOMER: Petra Geotechnical Inc.  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355

MATRIX: SOIL

DATE SAMPLED: 07/30/13

REPORT TO: MR. JON CAIN

DATE RECEIVED: 07/30/13

DATE ANALYZED: 08/13/13

DATE REPORTED: 08/16/13

METHOD BLANK FOR LAB I.D.: 130730-83, -84, -86, -87

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	ND	0.3	1	500	5.0	6010B
Barium (Ba)	ND	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	ND	0.5	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.1	1	500	5.0	7196A
Cobalt (Co)	ND	1.0	1	8,000	80	6010B
Copper (Cu)	ND	1.0	1	2,500	25	6010B
Lead (Pb)	ND	0.5	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	ND	5.0	1	2,400	24	6010B
Zinc (Zn)	ND	0.5	1	5,000	250	6010B

### COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


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\* = STLC analysis for the metal is recommended (if marked)

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\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

# QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

## Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 8/13/2013

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	130809-4	50.0	95	PASS	6.44	50.0	56.0	99%	55.2	98%	2%
Chromium(Cr)	130809-4	50.0	102	PASS	32.3	50.0	74.5	84%	73.0	81%	4%
Lead(Pb)	130809-4	50.0	114	PASS	3.51	50.0	49.4	92%	48.7	90%	2%

ANALYSIS DATE : 8/13/2013

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	130812-2	0.125	95	PASS	0	0.125	0.108	86%	0.112	89%	3%

## MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355  
MATRIX: SOIL  
DATE SAMPLED: 07/30/13  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 07/30/13  
DATE EXTRACTED: 08/13/13  
DATE ANALYZED: 08/13/13  
DATE REPORTED: 08/16/13

SAMPLE I.D.: HP-16@5.0'

LAB I.D.: 130730-91

## Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	10
alpha-BHC	ND	0.001	10
beta-BHC	ND	0.001	10
gamma-BHC (Lindane)	ND	0.001	10
delta-BHC	ND	0.001	10
alpha-Chlordane	ND	0.001	10
gamma-Chlordane	ND	0.001	10
Total Chlordane (Technical)	ND	0.005	10
4,4'-DDD	ND	0.001	10
4,4'-DDE	0.084	0.001	10
4,4'-DDT	ND	0.001	10
Dieldrin	ND	0.001	10
Endosulfan I	ND	0.001	10
Endosulfan II	ND	0.001	10
Endosulfan Sulfate	ND	0.001	10
Endrin	ND	0.001	10
Endrin Aldehyde	ND	0.001	10
Endrin Ketone	ND	0.001	10
Heptachlor Epoxide	ND	0.001	10
Heptachlor	ND	0.001	10
Methoxychlor	ND	0.001	10
Toxaphene	ND	0.020	10

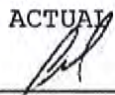
### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

# METHOD BLANK REPORT

CUSTOMER: Petra Geotechnical Inc.  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355  
 MATRIX: SOIL  
 DATE SAMPLED: 07/30/13  
 REPORT TO: MR. JON CAIN

DATE RECEIVED: 07/30/13  
 DATE EXTRACTED: 08/13/13  
 DATE ANALYZED: 08/13/13  
 DATE REPORTED: 08/16/13

METHOD BLANK FOR LAB I.D.: 130730-91

## Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

**COMMENTS:**

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555





**Enviro - Chem, Inc.**

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: September 9, 2013

Mr. Jon Cain  
Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel(951)600-9271 Fax(951)600-9215

Project: **12-355**  
Lab I.D.: **130830-43 through -90**

Dear Mr. Cain:

The **analytical results** for the soil and water samples, received by our lab on August 30, 2013, are attached. The samples were received chilled, intact and accompanying chain of custody record.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manager



Andy Wang  
Laboratory Manager



## LABORATORY REPORT

CUSTOMER: **Petra Geotechnical Inc.**  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: **12-355** DATE RECEIVED: 08/30/13  
 MATRIX: SOIL DATE EXTRACTED: 09/05/13  
 DATE SAMPLED: 08/30/13 DATE ANALYZED: 09/05-06/13  
 REPORT TO: MR. JON CAIN DATE REPORTED: 09/09/13

**TOTAL PETROLEUM HYDROCARBONS (TPH) - CARBON CHAIN ANALYSIS**


METHOD: EPA 8015B

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	C4-C10	C11-C22	C23-C35	DF
<u>HP-19@.5'</u>	<u>130830-76</u>	ND	ND	ND	1
<u>HP-20@.5'</u>	<u>130830-79</u>	ND	ND	ND	10^
<u>HP-21@.5'</u>	<u>130830-82</u>	ND	ND	ND	1
<b>METHOD BLANK</b>		ND	ND	ND	1
	<b>PQL</b>	<b>10</b>	<b>10</b>	<b>50</b>	

**COMMENTS**

C4-C10 = GASOLINE RANGE  
 C11-C22 = DIESEL RANGE  
 C23-C35 = MOTOR OIL RANGE  
 DF = DILUTION FACTOR  
 PQL = PRACTICAL QUANTITATION LIMIT  
 ACTUAL DETECTION LIMIT = DF X PQL  
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT  
 ^ = ACTUAL DETECTION LIMIT RAISED DUE TO MATRIX INTERFERENCE

Data Reviewed and Approved by:   
 CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro Chem, Inc

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

# 8015B QA/QC Report

Date Analyzed: 9/5-6/2013

Units: mg/Kg (ppm)

Matrix: Soil/Solid/Sludge/Liquid


Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **130905-LCS1/2**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11~C22 Range	0	200	235	118%	221	111%	6%	75-125	0-20%

### LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP
C11~C22 Range	200	231	116%	75-125

Analyzed and Reviewed By: \_\_\_\_\_ 

Final Reviewer: \_\_\_\_\_ 

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355  
MATRIX: WATER  
DATE SAMPLED: 08/30/13  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 08/30/13  
DATE EXTRACTED: 08/30/13  
DATE ANALYZED: 09/05/13  
DATE REPORTED: 09/09/13

-----  
**TOTAL PETROLEUM HYDROCARBONS (TPH) - CARBON CHAIN ANALYSIS**

METHOD: EPA 8015B

UNIT: ug/L = MICROGRAM PER LITER = PPB

-----

SAMPLE I.D.	LAB I.D.	C4-C10	C11-C22	C23-C35	DF
<u>Rinsate #2</u>	<u>130830-86</u>	<u>ND</u>	<u>ND</u>	<u>ND</u>	<u>1</u>
<u>METHOD BLANK</u>		<u>ND</u>	<u>ND</u>	<u>ND</u>	<u>1</u>
	<b>PQL</b>	<b>500</b>	<b>500</b>	<b>3000</b>	

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### COMMENTS

C4-C10 = GASOLINE RANGE

C11-C22 = DIESEL RANGE

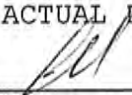
C23-C35 = MOTOR OIL RANGE

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = DF X PQL

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro Chem, Inc

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

# 8015B QA/QC Report

Date Analyzed: 9/5/2013

Units: ug/L (PPB)

Matrix: Water/Liquid

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 130830-86 MS/MSD

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11-C22 RANGE	0	12000	14000	117%	13100	109%	7%	75-125	0-20%

### LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP
C11-C22 RANGE	12000	14800	123%	75-125

Analyzed and Reviewed by: \_\_\_\_\_ B

Final Reviewer: \_\_\_\_\_ @

# LABORATORY REPORT

CUSTOMER: **Petra Geotechnical Inc.**  
**38655 Sky Canyon Drive**  
**Murrieta, CA 92563**  
**Tel (951) 600-9271 Fax (951) 600-9215**

PROJECT: 12-355

MATRIX: SOIL

DATE SAMPLED: 08/30/13

REPORT TO: MR. JON CAIN

DATE RECEIVED: 08/30/13

DATE ANALYZED: 09/03/13

DATE REPORTED: 09/09/13

SAMPLE I.D.: **HP-19@.5'**

LAB I.D.: 130830-76

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLIC LIMIT	STLIC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	0.928	0.3	1	500	5.0	6010B
Barium (Ba)	47.2	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	110 **	0.5	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.1	1	500	5.0	7196A
Cobalt (Co)	15.3	1.0	1	8,000	80	6010B
Copper (Cu)	10.2	1.0	1	2,500	25	6010B
Lead (Pb)	0.650	0.5	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	37.4	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	73.0	5.0	1	2,400	24	6010B
Zinc (Zn)	25.3	0.5	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLIC = Total Threshold Limit Concentration

STLIC = Soluble Threshold Limit Concentration

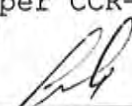
@ = Must meet both the STLIC Limit at 560 and EPA-TCLP Limit at 5

\* = STLIC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLIC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

# LABORATORY REPORT

CUSTOMER: **Petra Geotechnical Inc.**  
**38655 Sky Canyon Drive**  
**Murrieta, CA 92563**  
**Tel (951) 600-9271 Fax (951) 600-9215**

PROJECT: **12-355**

MATRIX: **SOIL**

DATE SAMPLED: **08/30/13**

REPORT TO: **MR. JON CAIN**

DATE RECEIVED: **08/30/13**

DATE ANALYZED: **09/03/13**

DATE REPORTED: **09/09/13**

SAMPLE I.D.: **HP-20@.5'**

LAB I.D.: **130830-79**

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: **mg/Kg = MILLIGRAM PER KILOGRAM = PPM**

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	0.650	0.3	1	500	5.0	6010B
Barium (Ba)	43.4	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	88.8 **	0.5	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.1	1	500	5.0	7196A
Cobalt (Co)	10.5	1.0	1	8,000	80	6010B
Copper (Cu)	9.68	1.0	1	2,500	25	6010B
Lead (Pb)	1.27	0.5	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	28.0	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	61.1	5.0	1	2,400	24	6010B
Zinc (Zn)	25.5	0.5	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

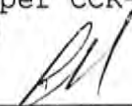
@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355

MATRIX: SOIL

DATE SAMPLED: 08/30/13

REPORT TO: MR. JON CAIN

DATE RECEIVED: 08/30/13

DATE ANALYZED: 09/03/13

DATE REPORTED: 09/09/13

SAMPLE I.D.: HP-21@.5'

LAB I.D.: 130830-82

**TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS**

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	0.610	0.3	1	500	5.0	6010B
Barium (Ba)	42.7	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	98.9 **	0.5	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.1	1	500	5.0	7196A
Cobalt (Co)	12.3	1.0	1	8,000	80	6010B
Copper (Cu)	9.32	1.0	1	2,500	25	6010B
Lead (Pb)	0.762	0.5	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	30.5	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	65.6	5.0	1	2,400	24	6010B
Zinc (Zn)	23.1	0.5	1	5,000	250	6010B

**COMMENTS**

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

\* = STLC analysis for the metal is recommended (if marked)

\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## METHOD BLANK REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355

MATRIX: SOIL

DATE SAMPLED: 08/30/13

REPORT TO: MR. JON CAIN

DATE RECEIVED: 08/30/13

DATE ANALYZED: 09/03/13

DATE REPORTED: 09/09/13

METHOD BLANK FOR LAB I.D.: 130830-76, -79, -82

### TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLT LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	ND	0.3	1	500	5.0	6010B
Barium (Ba)	ND	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	ND	0.5	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.1	1	500	5.0	7196A
Cobalt (Co)	ND	1.0	1	8,000	80	6010B
Copper (Cu)	ND	1.0	1	2,500	25	6010B
Lead (Pb)	ND	0.5	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	ND	5.0	1	2,400	24	6010B
Zinc (Zn)	ND	0.5	1	5,000	250	6010B

### COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLT = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


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\*\* = Additional Analysis required, please call to discuss (if marked)

\*\*\* = The concentration exceeds the TTLT Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by:   
CAL-DHS ELAP CERTIFICATE No.: 1555



# QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

## Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 9/3/2013

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	130830-22	50.0	102	PASS	4.07	50.0	53.9	100%	54.0	100%	0%
Copper(Cu)	130830-22	50.0	108	PASS	11.2	50.0	58.7	95%	59.2	96%	1%
Lead(Pb)	130830-22	50.0	107	PASS	15.7	50.0	61.4	91%	61.5	92%	0%

ANALYSIS DATE. : 9/3/2013


Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	130830-93	0.125	96	PASS	0	0.125	0.113	90%	0.105	84%	7%

## MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Copper(Cu)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	<b>75 ~ 125</b>	<b>75 ~ 125</b>	<b>85 ~ 115</b>	<b>0 ~ 20</b>

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_




## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355

MATRIX: WATER

DATE SAMPLED: 08/30/13

REPORT TO: MR. JON CAIN

DATE RECEIVED: 08/30/13

DATE ANALYZED: 09/03-04/13

DATE REPORTED: 09/09/13

SAMPLE I.D.: Rinsate #3

LAB I.D.: 130830-87

### TOTAL METALS ANALYSIS

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	EPA METHOD
Antimony (Sb)	ND	0.02	1	200.7
Arsenic (As)	ND	0.01	1	200.7
Barium (Ba)	ND	0.10	1	200.7
Beryllium (Be)	ND	0.01	1	200.7
Cadmium (Cd)	ND	0.01	1	200.7
Chromium (Cr)	ND	0.01	1	200.7
Cobalt (Co)	ND	0.02	1	200.7
Copper (Cu)	ND	0.02	1	200.7
Lead (Pb)	ND	0.01	1	200.7
Mercury (Hg)	ND	0.0005	1	245.1
Molybdenum (Mo)	ND	0.1	1	200.7
Nickel (Ni)	ND	0.05	1	200.7
Selenium (Se)	ND	0.02	1	200.7
Silver (Ag)	ND	0.02	1	200.7
Thallium (Tl)	ND	0.02	1	200.7
Vanadium (V)	ND	0.1	1	200.7
Zinc (Zn)	ND	0.01	1	200.7

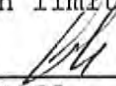
### COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## METHOD BLANK REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355

MATRIX: WATER

DATE SAMPLED: 08/30/13

REPORT TO: MR. JON CAIN

DATE RECEIVED: 08/30/13

DATE ANALYZED: 09/03-04/13

DATE REPORTED: 09/09/13

METHOD BLANK FOR LAB I.D.: 130830-87

### TOTAL METALS ANALYSIS

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	EPA METHOD
Antimony (Sb)	ND	0.02	1	200.7
Arsenic (As)	ND	0.01	1	200.7
Barium (Ba)	ND	0.10	1	200.7
Beryllium (Be)	ND	0.01	1	200.7
Cadmium (Cd)	ND	0.01	1	200.7
Chromium (Cr)	ND	0.01	1	200.7
Cobalt (Co)	ND	0.02	1	200.7
Copper (Cu)	ND	0.02	1	200.7
Lead (Pb)	ND	0.01	1	200.7
Mercury (Hg)	ND	0.0005	1	245.1
Molybdenum (Mo)	ND	0.1	1	200.7
Nickel (Ni)	ND	0.05	1	200.7
Selenium (Se)	ND	0.02	1	200.7
Silver (Ag)	ND	0.02	1	200.7
Thallium (Tl)	ND	0.02	1	200.7
Vanadium (V)	ND	0.1	1	200.7
Zinc (Zn)	ND	0.01	1	200.7

### COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection limit or non-detected

Data Reviewed and Approved by: \_\_\_\_\_

CAL-DHS ELAP CERTIFICATE No.: 1555

# QA/QC for TLLC Metals Analysis --WATER MATRIX

## Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 9/4/2013

Unit : mg/L(ppm)

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	130830-87	1.00	107	PASS	0	1.00	1.08	108%	1.08	108%	0%
Chromium(Cr)	130830-87	1.00	113	PASS	0	1.00	1.09	109%	1.07	107%	2%
Zinc(Zn)	130830-87	1.00	102	PASS	0	1.00	1.14	114%	1.14	114%	0%

ANALYSIS DATE. : 9/3/2013

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	130830-8	0.00250	92	PASS	0	0.00250	0.00210	84%	0.00230	92%	9%

## MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Chromium(Cr)	PASS	PASS	PASS	PASS
Zinc(Zn)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

## LABORATORY REPORT

CUSTOMER: **Petra Geotechnical Inc.**  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: **12-355**  
 MATRIX: **SOIL**  
 DATE SAMPLED: **08/30/13**  
 REPORT TO: **MR. JON CAIN**

DATE RECEIVED: **08/30/13**  
 DATE EXTRACTED: **09/03/13**  
 DATE ANALYZED: **09/05/13**  
 DATE REPORTED: **09/09/13**

SAMPLE I.D.: **HP-1A@1.0'**

LAB I.D.: **130830-43**

### Organochlorine Pesticides Analysis

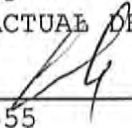
Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	500
alpha-BHC	ND	0.001	500
beta-BHC	ND	0.001	500
gamma-BHC (Lindane)	ND	0.001	500
delta-BHC	ND	0.001	500
alpha-Chlordane	ND	0.001	500
gamma-Chlordane	ND	0.001	500
Total Chlordane (Technical)	ND	0.005	500
4,4'-DDD	ND	0.001	500
4,4'-DDE	0.790	0.001	500
4,4'-DDT	ND	0.001	500
Dieldrin	ND	0.001	500
Endosulfan I	ND	0.001	500
Endosulfan II	ND	0.001	500
Endosulfan Sulfate	ND	0.001	500
Endrin	ND	0.001	500
Endrin Aldehyde	ND	0.001	500
Endrin Ketone	ND	0.001	500
Heptachlor Epoxide	ND	0.001	500
Heptachlor	ND	0.001	500
Methoxychlor	ND	0.001	500
Toxaphene	ND	0.020	500

**COMMENTS:**

DF = DILUTION FACTOR  
 PQL = PRACTICAL QUANTITATION LIMIT  
 ACTUAL DETECTION LIMIT = PQL X DF  
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
 CAL-DHS ELAP CERTIFICATE No.: 1555

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355  
MATRIX: SOIL  
DATE SAMPLED: 08/30/13  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 08/30/13  
DATE EXTRACTED: 09/03/13  
DATE ANALYZED: 09/05/13  
DATE REPORTED: 09/09/13

SAMPLE I.D.: HP-1A@3.0'

LAB I.D.: 130830-44

## Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	500
alpha-BHC	ND	0.001	500
beta-BHC	ND	0.001	500
gamma-BHC (Lindane)	ND	0.001	500
delta-BHC	ND	0.001	500
alpha-Chlordane	ND	0.001	500
gamma-Chlordane	ND	0.001	500
Total Chlordane (Technical)	ND	0.005	500
4,4'-DDD	ND	0.001	500
4,4'-DDE	3.42	0.001	500
4,4'-DDT	ND	0.001	500
Dieldrin	ND	0.001	500
Endosulfan I	ND	0.001	500
Endosulfan II	ND	0.001	500
Endosulfan Sulfate	ND	0.001	500
Endrin	ND	0.001	500
Endrin Aldehyde	ND	0.001	500
Endrin Ketone	ND	0.001	500
Heptachlor Epoxide	ND	0.001	500
Heptachlor	ND	0.001	500
Methoxychlor	ND	0.001	500
Toxaphene	ND	0.020	500

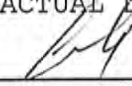
### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355  
MATRIX: SOIL  
DATE SAMPLED: 08/30/13  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 08/30/13  
DATE EXTRACTED: 09/03/13  
DATE ANALYZED: 09/05/13  
DATE REPORTED: 09/09/13

SAMPLE I.D.: HP-1A@5.0'

LAB I.D.: 130830-45

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	500
alpha-BHC	ND	0.001	500
beta-BHC	ND	0.001	500
gamma-BHC (Lindane)	ND	0.001	500
delta-BHC	ND	0.001	500
alpha-Chlordane	ND	0.001	500
gamma-Chlordane	ND	0.001	500
Total Chlordane (Technical)	ND	0.005	500
4,4'-DDD	ND	0.001	500
4,4'-DDE	3.65	0.001	500
4,4'-DDT	ND	0.001	500
Dieldrin	ND	0.001	500
Endosulfan I	ND	0.001	500
Endosulfan II	ND	0.001	500
Endosulfan Sulfate	ND	0.001	500
Endrin	ND	0.001	500
Endrin Aldehyde	ND	0.001	500
Endrin Ketone	ND	0.001	500
Heptachlor Epoxide	ND	0.001	500
Heptachlor	ND	0.001	500
Methoxychlor	ND	0.001	500
Toxaphene	ND	0.020	500

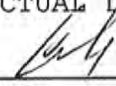
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355  
MATRIX: SOIL  
DATE SAMPLED: 08/30/13  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 08/30/13  
DATE EXTRACTED: 09/03/13  
DATE ANALYZED: 09/05/13  
DATE REPORTED: 09/09/13

SAMPLE I.D.: HP-1B@1.0'

LAB I.D.: 130830-46

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	250
alpha-BHC	ND	0.001	250
beta-BHC	ND	0.001	250
gamma-BHC (Lindane)	ND	0.001	250
delta-BHC	ND	0.001	250
alpha-Chlordane	ND	0.001	250
gamma-Chlordane	ND	0.001	250
Total Chlordane (Technical)	ND	0.005	250
4,4'-DDD	ND	0.001	250
4,4'-DDE	0.643	0.001	250
4,4'-DDT	ND	0.001	250
Dieldrin	ND	0.001	250
Endosulfan I	ND	0.001	250
Endosulfan II	ND	0.001	250
Endosulfan Sulfate	ND	0.001	250
Endrin	ND	0.001	250
Endrin Aldehyde	ND	0.001	250
Endrin Ketone	ND	0.001	250
Heptachlor Epoxide	ND	0.001	250
Heptachlor	ND	0.001	250
Methoxychlor	ND	0.001	250
Toxaphene	ND	0.020	250

#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555



## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 12-355  
MATRIX: SOIL  
DATE SAMPLED: 08/30/13  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 08/30/13  
DATE EXTRACTED: 09/03/13  
DATE ANALYZED: 09/06/13  
DATE REPORTED: 09/09/13

SAMPLE I.D.: HP-1B@3.0'

LAB I.D.: 130830-47

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	2500
alpha-BHC	ND	0.001	2500
beta-BHC	ND	0.001	2500
gamma-BHC (Lindane)	ND	0.001	2500
delta-BHC	ND	0.001	2500
alpha-Chlordane	ND	0.001	2500
gamma-Chlordane	ND	0.001	2500
Total Chlordane (Technical)	ND	0.005	2500
4,4'-DDD	ND	0.001	2500
4,4'-DDE	3.83	0.001	2500
4,4'-DDT	ND	0.001	2500
Dieldrin	ND	0.001	2500
Endosulfan I	ND	0.001	2500
Endosulfan II	ND	0.001	2500
Endosulfan Sulfate	ND	0.001	2500
Endrin	ND	0.001	2500
Endrin Aldehyde	ND	0.001	2500
Endrin Ketone	ND	0.001	2500
Heptachlor Epoxide	ND	0.001	2500
Heptachlor	ND	0.001	2500
Methoxychlor	ND	0.001	2500
Toxaphene	ND	0.020	2500

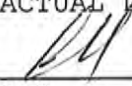
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555