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:06/20/14
REPORT TO:MR. JON CAIN

DATE RECEIVED:06/20/14
DATE EXTRACTED:06/24/14
DATE ANALYZED:06/25/14
DATE REPORTED:06/27/14

SAMPLE I.D.: **HP-27 @ .5'**

LAB I.D.: 140620-17

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	0.382	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
Methoxyclor	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: 06/20/14
REPORT TO: MR. JON CAIN

DATE RECEIVED: 06/20/14
DATE EXTRACTED: 06/24/14
DATE ANALYZED: 06/24/14
DATE REPORTED: 06/27/14

METHOD BLANK FOR LAB I.D.:
140620-7, -8, -11, -14, -17, -20, -23, -26, -29

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
Methoxyclor	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

EPA 8081 QA/QC Report

Matrix: **Soil/Solid/Liquid(Oil)** Date Analyzed: **6/24-25/2014**

Unit: **mg/Kg (ppm)**

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

Spiked Sample Lab I.D.: 140624-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.00500	0.00575	**115%**	0.00548	**110%**	**5%**	**0-20%**	**70-130**
Aldrin	0.000	0.00500	0.00547	**109%**	0.00540	**108%**	**1%**	**0-20%**	**70-130**
4,4-DDE	0.000	0.00500	0.00439	**88%**	0.00468	**94%**	**6%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.00500	0.00583	**117%**	**75-125**
Aldrin	0.00500	0.00521	**104%**	**75-125**
4,4-DDE	0.00500	0.00520	**104%**	**75-125**
Dieldrin	0.00500	0.00444	**89%**	**75-125**

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	140620-07	140620-08	140620-11	140620-14	140620-17	140620-20
Tetra-chloro-meta-xylene	50-150	117%	119%	119%	120%	120%	119%	120%
Decachlorobiphenyl	50-150	73%	59%	61%	61%	63%	59%	61%

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		140620-23	140620-26	140620-29		140624-05	140624-06	140624-07
Tetra-chloro-meta-xylene	50-150	118%	110%	115%		101%	86%	114%
Decachlorobiphenyl	50-150	60%	57%	55%		124%	58%	67%

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.								
Tetra-chloro-meta-xylene	50-150							
Decachlorobiphenyl	50-150							

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

** = Surrogate fail due to matrix interference (If Marked)*

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

Analyzed and Reviewed By: FL

Final Reviewer: ⊖

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: 06/20/14
REPORT TO: MR. JON CAIN

DATE RECEIVED: 06/20/14
DATE EXTRACTED: 06/24/14
DATE ANALYZED: 06/26/14
DATE REPORTED: 06/27/14

METHOD BLANK FOR LAB I.D.: 140620-32

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
Methoxyclor	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

EPA 8081 QA/QC Report

Matrix: **Soil/Solid/Liquid(Oil)** Date Analyzed: **6/26/2014**

Unit: **mg/Kg (ppm)**

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

Spiked Sample Lab I.D.: 140626-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.00500	0.00526	**105%**	0.00525	**105%**	**0%**	**0-20%**	**70-130**
Aldrin	0.000	0.00500	0.00621	**124%**	0.00620	**124%**	**0%**	**0-20%**	**70-130**
4,4-DDE	0.000	0.00500	0.00554	**111%**	0.00546	**109%**	**1%**	0-20%	70-130

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.00500	0.00529	**106%**	**75-125**
Aldrin	0.00500	0.00609	**122%**	**75-125**
4,4-DDE	0.00500	0.00542	**108%**	**75-125**
Dieldrin	0.00500	0.00487	**97%**	**75-125**

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	140620-32					
Tetra-chloro-meta-xylene	50-150	117%	120%					
Decachlorobiphenyl	50-150	79%	71%					

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.								
Tetra-chloro-meta-xylene	50-150							
Decachlorobiphenyl	50-150							

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.								
Tetra-chloro-meta-xylene	50-150							
Decachlorobiphenyl	50-150							

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

** = Surrogate fail due to matrix interference (If Marked)*

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

Analyzed and Reviewed By: BL

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:WATER
DATE SAMPLED:06/20/14
REPORT TO:MR. JON CAIN

DATE RECEIVED:06/20/14
DATE EXTRACTED:06/20/14
DATE ANALYZED:06/24/14
DATE REPORTED:06/27/14

SAMPLE I.D.: **Rinsate #1**

LAB I.D.: 140620-35

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
Methoxyclor	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

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:06/20/14
REPORT TO:MR. JON CAIN

DATE RECEIVED:06/20/14
DATE EXTRACTED:06/20/14
DATE ANALYZED:06/24/14
DATE REPORTED:06/27/14

METHOD BLANK FOR LAB I.D.: 140620-35

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
Methoxyclor	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 608 QA/QC Report

Matrix: **Water/Liquid** Date Analyzed: 6/24/2014
Unit: ug/L

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)
Spiked Sample Lab I.D.: 140620-35 MS/MSD

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0	0.500	0.557	111%	0.624	125%	11%	0-20%	70-130
Aldrin	0	0.500	0.523	105%	0.578	116%	10%	0-20%	70-130
4,4-DDE	0	0.500	0.480	96%	0.523	105%	9%	0-20%	70-130

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.500	0.482	96%	75-125
Aldrin	0.500	0.459	92%	75-125
4,4-DDE	0.500	0.489	98%	75-125
Dieldrin	0.500	0.436	87%	75-125

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		M-BLK	140620-35					
Tetra-chloro-meta-xylene	50-150	116%	129%					
Decachlorobipneyl	50-150	57%	61%					

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.								
Tetra-chloro-meta-xylene								
Decachlorobipneyl								

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.						
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: FL

Final Reviewer: ©

* = Surrogate fail due to matrix interference

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

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
X 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required: 8081A Pest's	COMMENTS
HP-24@.5'	1406270-7	06/20/14	8:00	soil	1		ICE	X	
HP-24@.5'	- 8		8:00	soil		R		X	Dupe
HP-24@2.5'	- 9		8:02	soil					
HP-24@5.0'	- 10		8:02	soil					
HP-25@.5'	- 11	06/20/14	8:22	soil				X	
HP-25@2.5'	- 12		8:24	soil					
HP-25@5.0'	- 13		8:24	soil					
HP-26@.5'	- 14		8:36					X	
HP-26@2.5	- 15		8:38						
HP-26@5.0'	- 16		8:38						
HP-27@.5'	- 17		8:10	soil				X	
HP-27@2.5	- 18		8:11						
HP-27@5.0'	- 19		8:11						
HP-19@.5'	- 20		9:50	soil				X	
HP-19@2.5'	- 21		9:52						

Misc./PO#

Company Name: Petra Geotechnical Inc
Address: 40880 County Center Dr.
City/State/Zip: Temecula CA 92591

Project Contact: Jon Cain
Tel: (951) 600-9271
Fax/Email: jcain@petra-inc.com

Sampler's Signature:
Project Name/ID: 12-355

Relinquished by:	06/20/14 12:49	Received by:	6/20/14 1250
Relinquished by:		Received by:	Date & Time:
Relinquished by:		Received by:	Date & Time:

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

CHAIN OF CUSTODY RECORD

Date: _____

WHITE WITH SAMPLE - YELLOW TO CLIENT

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
X 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required: OCP's 8081A	COMMENTS
HP-19 @ 5.0'	1406720-22	06/20/14	9:52	Soil	1		ICE		
HP-20 @ .5'	-23		9:30		1			X	
HP-20 @ 2.5'	-24		9:32		1				
HP-20 @ 5.0'	-25		9:32		1				
HP-21 @ .5'	-26	06/20/14	8:52		1			X	
HP-21 @ 2.5'	-27		8:54	Soil					
HP-21 @ 5.0	-28		8:54						
HP-22 @ .5'	-29		9:05					X	
HP-22 @ 2.5'	-30		9:09						
HP-22 @ 5.0'	-31		9:09						
HP-23 @ .5'	-32		9:20					X	
HP-23 @ 2.5'	-33		9:22						
HP-23 @ 5.0'	-34		9:22						
Rinsate #1	-35	06/20/14	9:57	Water			H_2SO_4	X	

Misc./PO#:

Company Name: Petra Geotechnical Inc.
Address: 40880 County Center Dr.
City/State/Zip: Temecula, CA 92591
Project Contact: Jon Cain
Tel: (951) 600-9271
Fax/Email: jcain@petra-inc.com
Sampler's Signature:
Project Name/ID: 12-355

Relinquished by: 06/20/14 12:49
Received by:
Date & Time: 6/20/14 1250
Relinquished by:
Received by:
Date & Time:
Relinquished by:
Received by:
Date & Time:

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

CHAIN OF CUSTODY RECORD

Date:

WHITE WITH SAMPLE - YELLOW TO CLIENT

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
X 1 Week (Standard)
Other:

Misc./PO#

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required: 8081A	COMMENTS
HP-24@.5'	1406-20-7	06/20/14	8:00	soil	1		ICE	X	
HP-24@.5'	-8		8:00	soil		R		X	Dupe
HP-24@2.5'	-9		8:02	soil					
HP-24@5.0'	-10		8:02	soil					
HP-25@.5'	-11	06/20/14	8:22	soil				X	
HP-25@2.5'	-12		8:24	soil					
HP-25@5.0'	-13		8:24	soil					
HP-26@.5'	-14		8:36					X	
HP-26@2.5	-15		8:38						
HP-26@5.0'	-16		8:38						
HP-27@.5'	-17		8:10	soil				X	
HP-27@2.5	-18		8:11						
HP-27@5.0'	-19		8:11						
HP-19@.5'	-20		9:50	soil				X	
HP-19@2.5'	-21		9:52						

Company Name: Petra Geotechnical Inc
Address: 40880 County Center Dr.
City/State/Zip: Temecula CA 92591

Project Contact: Jon Cain
Tel: (951) 600-9271
Fax/Email: jcain@petra-inc.com

Sampler's Signature:
Project Name/ID: 12-355

Relinquished by:	06/20/14 12:49	Received by:	6/20/14 1250
Relinquished by:		Received by:	Date & Time:
Relinquished by:		Received by:	Date & Time:

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

CHAIN OF CUSTODY RECORD

Date:

WHITE WITH SAMPLE • YELLOW TO CLIENT

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
X 1 Week (Standard)
Other:

CHAIN OF CUSTODY RECORD

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Cr+3	8081A	Misc./PO#	COMMENTS
				Analysis Required							
HP-19 @ 5.0'	140620-22	06/20/14	9:52	Soil	1		ICE		X		
HP-20 @ .5'	- 23		9:30		1				X		
HP-20 @ 2.5'	- 24		9:32		1				X		
HP-20 @ 5.0'	- 25		9:32		1				X		
HP-21 @ .5'	- 26	06/20/14	8:52		1				X		
HP-21 @ 2.5'	- 27		8:54	Soil					X		
HP-21 @ 5.0	- 28		8:54						X		
HP-22 @ .5'	- 29		9:05						X		
HP-22 @ 2.5'	- 30		9:09						X		
HP-22 @ 5.0'	- 31		9:09						X		
HP-23 @ .5'	- 32		9:20						X		
HP-23 @ 2.5'	- 33		9:22						X		
HP-23 @ 5.0'	- 34		9:22						X		
Rinsate #1	- 35	06/20/14	9:57	Water			H_2SO_4		X		

Company Name: Petra Geotechnical Inc.	Project Contact: Jon Cain	Sampler's Signature:
Address: 40880 County Center Dr.	Tel: (951) 600-9271	Project Name/ID: 12-355
City/State/Zip: Temecula, CA 92591	Fax/Email: jcain@petra-inc.com	

Relinquished by: 06/20/14 12:49	Received by:	Date & Time: 6/20/14 1250	Instructions for Sample Storage After Analysis:
Relinquished by:	Received by:	Date & Time:	O Dispose of O Return to Client O Store (30 Days)
Relinquished by:	Received by:	Date & Time:	O Other:

Date: _____

WHITE WITH SAMPLE • YELLOW TO CLIENT

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

Date: July 3, 2014

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.: **140620-7 through -35**

Dear Mr. Cain:

The **additional analytical results** for the soil and water samples, received by our lab on June 20, 2014, are attached. The samples were received chilled, intact, accompanying chain of custody record 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: 06/20/14
REPORT TO: MR. JON CAIN

DATE RECEIVED: 06/20/14
DATE EXTRACTED: 06/30/14
DATE ANALYZED: 07/01/14
DATE REPORTED: 07/03/14

SAMPLE I.D.: HP-19 @ 2.5'

LAB I.D.: 140620-21

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	0.031	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
Methoxyclor	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: 06/20/14
REPORT TO: MR. JON CAIN

DATE RECEIVED: 06/20/14
DATE EXTRACTED: 06/30/14
DATE ANALYZED: 07/03/14
DATE REPORTED: 07/03/14

SAMPLE I.D.: HP-19 @ 5.0'

LAB I.D.: 140620-22

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	0.122	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
Methoxyclor	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:06/20/14
REPORT TO:MR. JON CAIN

DATE RECEIVED:06/20/14
DATE EXTRACTED:06/30/14
DATE ANALYZED:07/01/14
DATE REPORTED:07/03/14

SAMPLE I.D.: **HP-20 @ 2.5'**
LAB I.D.: 140620-24

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	2.95	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
Methoxyclor	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: 06/20/14
REPORT TO: MR. JON CAIN

DATE RECEIVED: 06/20/14
DATE EXTRACTED: 06/30/14
DATE ANALYZED: 07/01/14
DATE REPORTED: 07/03/14

SAMPLE I.D.: HP-20 @ 5.0'
LAB I.D.: 140620-25

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	0.630	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
Methoxyclor	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: 06/20/14
REPORT TO: MR. JON CAIN

DATE RECEIVED: 06/20/14
DATE EXTRACTED: 06/30/14
DATE ANALYZED: 07/03/14
DATE REPORTED: 07/03/14

SAMPLE I.D.: **HP-21 @ 2.5'**
LAB I.D.: 140620-27

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	0.109	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
Methoxyclor	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: 06/20/14
REPORT TO: MR. JON CAIN

DATE RECEIVED: 06/20/14
DATE EXTRACTED: 06/30/14
DATE ANALYZED: 07/03/14
DATE REPORTED: 07/03/14

SAMPLE I.D.: HP-21 @ 5.0'

LAB I.D.: 140620-28

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	0.039	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
Methoxyclor	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:06/20/14
REPORT TO:MR. JON CAIN

DATE RECEIVED:06/20/14
DATE EXTRACTED:06/30/14
DATE ANALYZED:07/01/14
DATE REPORTED:07/03/14

SAMPLE I.D.: **HP-22@ 2.5'**
LAB I.D.: 140620-30

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	0.905	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
Methoxyclor	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: 06/20/14
REPORT TO: MR. JON CAIN

DATE RECEIVED: 06/20/14
DATE EXTRACTED: 06/30/14
DATE ANALYZED: 06/30/14
DATE REPORTED: 07/03/14

SAMPLE I.D.: **HP-22@ 5.0'**
LAB I.D.: 140620-31

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
Methoxyclor	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: 06/20/14
REPORT TO: MR. JON CAIN

DATE RECEIVED: 06/20/14
DATE EXTRACTED: 06/30/14
DATE ANALYZED: 07/01/14
DATE REPORTED: 07/03/14

SAMPLE I.D.: HP-23@ 2.5'
LAB I.D.: 140620-33

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	1.21	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
Methoxyclor	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: 06/20/14
REPORT TO: MR. JON CAIN

DATE RECEIVED: 06/20/14
DATE EXTRACTED: 06/30/14
DATE ANALYZED: 07/01/14
DATE REPORTED: 07/03/14

SAMPLE I.D.: HP-23@ 5.0'

LAB I.D.: 140620-34

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	1.05	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
Methoxyclor	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: 06/20/14
REPORT TO: MR. JON CAIN

DATE RECEIVED: 06/20/14
DATE EXTRACTED: 06/30/14
DATE ANALYZED: 07/01/14
DATE REPORTED: 07/03/14

SAMPLE I.D.: HP-24 @ 2.5'

LAB I.D.: 140620-9

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	1.52	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
Methoxyclor	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: 06/20/14
REPORT TO: MR. JON CAIN

DATE RECEIVED: 06/20/14
DATE EXTRACTED: 06/30/14
DATE ANALYZED: 07/01/14
DATE REPORTED: 07/03/14

SAMPLE I.D.: HP-24 @ 5.0'
LAB I.D.: 140620-10

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
Methoxyclor	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: 06/20/14
REPORT TO: MR. JON CAIN

DATE RECEIVED: 06/20/14
DATE EXTRACTED: 06/30/14
DATE ANALYZED: 07/01/14
DATE REPORTED: 07/03/14

SAMPLE I.D.: **HP-25 @ 2.5'**
LAB I.D.: 140620-12

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	1.99	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
Methoxyclor	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: 06/20/14
REPORT TO: MR. JON CAIN

DATE RECEIVED: 06/20/14
DATE EXTRACTED: 06/30/14
DATE ANALYZED: 07/01/14
DATE REPORTED: 07/03/14

SAMPLE I.D.: **HP-25 @ 5.0'**
LAB I.D.: 140620-13

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	1.00	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
Methoxyclor	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:06/20/14
REPORT TO:MR. JON CAIN

DATE RECEIVED:06/20/14
DATE EXTRACTED:06/30/14
DATE ANALYZED:07/01/14
DATE REPORTED:07/03/14

SAMPLE I.D.: **HP-26 @ 2.5'**
LAB I.D.: 140620-15

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	1.30	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
Methoxyclor	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:06/20/14
REPORT TO:MR. JON CAIN

DATE RECEIVED:06/20/14
DATE EXTRACTED:06/30/14
DATE ANALYZED:07/01/14
DATE REPORTED:07/03/14

SAMPLE I.D.: **HP-26 @ 5.0'**
LAB I.D.: 140620-16

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	1.39	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
Methoxyclor	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:06/20/14
REPORT TO:MR. JON CAIN

DATE RECEIVED:06/20/14
DATE EXTRACTED:06/30/14
DATE ANALYZED:07/01/14
DATE REPORTED:07/03/14

SAMPLE I.D.: **HP-27 @ 2.5'**
LAB I.D.: 140620-18

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	1.50	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
Methoxyclor	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: 06/20/14
REPORT TO: MR. JON CAIN

DATE RECEIVED: 06/20/14
DATE EXTRACTED: 06/30/14
DATE ANALYZED: 07/01/14
DATE REPORTED: 07/03/14

SAMPLE I.D.: **HP-27 @ 5.0'**
LAB I.D.: 140620-19

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	1.78	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
Methoxyclor	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

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: 06/20/14
REPORT TO: MR. JON CAIN

DATE RECEIVED: 06/20/14
DATE EXTRACTED: 06/30/14
DATE ANALYZED: 06/30/14
DATE REPORTED: 07/03/14

METHOD BLANK FOR LAB I.D.: 140620-9, -10, -12, -13, -15, -16, -18, -19, -21, -24, -25, -30, -31, -33, -34

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
Methoxyclor	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

EPA 8081 QA/QC Report

Matrix: **Soil/Solid/Liquid(Oil)** Date Analyzed: **6/30-7/1/2014**

Unit: **mg/Kg (ppm)**

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

Spiked Sample Lab I.D.: 140630-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.00500	0.00609	**122%**	0.00616	**123%**	**1%**	**0-20%**	**70-130**
Aldrin	0.000	0.00500	0.00614	**123%**	0.00613	**123%**	**0%**	**0-20%**	**70-130**
4,4-DDE	0.000	0.00500	0.00485	**97%**	0.00492	**98%**	**1%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.00500	0.00608	**122%**	**75-125**
Aldrin	0.00500	0.00612	**122%**	**75-125**
4,4-DDE	0.00500	0.00616	**123%**	**75-125**
Dieldrin	0.00500	0.00509	**102%**	**75-125**

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	140624-09	140624-10	140624-12	140624-13	140624-15	140624-16
Tetra-chloro-meta-xylene	50-150	118%	131%	126%	115%	119%	124%	119%
Decachlorobiphenyl	50-150	73%	71%	57%	58%	57%	58%	70%

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		140624-18	140624-19	140624-21	140624-24	140624-25	140624-30	140624-31
Tetra-chloro-meta-xylene	50-150	117%	112%	129%	121%	117%	121%	119%
Decachlorobiphenyl	50-150	57%	62%	70%	59%	61%	58%	54%

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		140624-33	140624-34					
Tetra-chloro-meta-xylene	50-150	120%	118%					
Decachlorobiphenyl	50-150	58%	60%					

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

** = Surrogate fail due to matrix interference (If Marked)*

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

Analyzed and Reviewed By: _____

Final Reviewer: _____

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: 06/20/14
REPORT TO: MR. JON CAIN

DATE RECEIVED: 06/20/14
DATE EXTRACTED: 06/30/14
DATE ANALYZED: 07/03/14
DATE REPORTED: 07/03/14

METHOD BLANK FOR LAB I.D.: 140620-22, -27, -28

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
Methoxyclor	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

EPA 8081 QA/QC Report

Matrix: **Soil/Solid/Liquid(Oil)** Date Analyzed: **7/3/2014**

Unit: **mg/Kg (ppm)**

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

Spiked Sample Lab I.D.: 140703-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.00500	0.00401	**80%**	0.00464	**93%**	**15%**	**0-20%**	**70-130**
Aldrin	0.000	0.00500	0.00508	**102%**	0.00554	**111%**	**9%**	**0-20%**	**70-130**
4,4-DDE	0.000	0.00500	0.00458	**92%**	0.00473	**95%**	**3%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.00500	0.00526	**105%**	**75-125**
Aldrin	0.00500	0.00582	**116%**	**75-125**
4,4-DDE	0.00500	0.00490	**98%**	**75-125**
Dieldrin	0.00500	0.00409	**82%**	**75-125**

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	140624-22	140624-27	140624-28			
Tetra-chloro-meta-xylene	50-150	121%	118%	123%	135%			
Decachlorobiphenyl	50-150	81%	70%	67%	80%			

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.								
Tetra-chloro-meta-xylene	50-150							
Decachlorobiphenyl	50-150							

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.								
Tetra-chloro-meta-xylene	50-150							
Decachlorobiphenyl	50-150							

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

** = Surrogate fail due to matrix interference (If Marked)*

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

Analyzed and Reviewed By: BL

Final Reviewer: _____

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
X 5 Work (Standard)

Misc./PO#

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS
HP 24@.5'	140670-7	06/20/14	8:00	soil	1		ICE	X	
HP 24@2.5'	" - 8	"	8:00	Soil	1		"	X	Dup
HP-24@2.5'	" - 9	"	8:02	soil					
HP-24@5.0'	" - 10	"	8:02	soil					
HP-25@.5'	" - 11	06/20/14	8:22	soil				X	
HP-25@2.5'	" - 12	"	8:24	soil					
HP-25@5.0'	" - 13	"	8:24	soil					
HP-26@.5'	" - 14	"	8:36	"				X	
HP-26@2.5	" - 15	"	8:38	"					
HP-26@5.0'	" - 16	"	8:38	"					
HP-27@.5'	" - 17	"	8:10	Soil				X	
HP-27@2.5	" - 18	"	8:11	"					
HP-27@5.0'	" - 19	"	8:11	"					
HP-19@.5'	" - 20	"	9:50	Soil	1			X	
HP-19@2.5'	" - 21	"	9:52	"	"				

Company Name: Petra Geotechnical Inc
Address: 40880 County Center Dr.
City/State/Zip: Temecula CA 92591

Project Contact: Jon Cain
Tel: (951) 600-9271
Fax/Email: @petra-inc.com

Sampler's Signature:

Project Name/ID: 12-355

Relinquished by:	06/20/14 12:47	Received by:	Date & Time: 6/20/14 1250
Relinquished by:		Received by:	Date & Time:
Relinquished by:		Received by:	Date & Time:

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

CHAIN OF CUSTODY RECORD

Date:

WHITE WITH SAMPLE • YELLOW TO CLIENT

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
X 1 Week (Standard)
Other

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS
HP-19 @ 5.0'	140620-22	06/20/14	9:52	Soil			Ice		
HP-20 @ .5'	- 23		9:30						
HP-20 @ 2.5'	- 24		9:32						
HP-20 @ 5.0'	- 25		9:32						
HP-21 @ .5'	- 26	06/20/14	8:52						
HP-21 @ 2.5'	- 27		8:54	Soil					
HP-21 @ 5.0	- 28		8:54						
HP-22 @ .5'	- 29		9:05						
HP-22 @ 2.5'	- 30		9:09						
HP-22 @ 5.0'	- 31		9:09						
HP-23 @ .5'	- 32		9:20						
HP-23 @ 2.5'	- 33		9:22						
HP-23 @ 5.0'	- 34		9:22						
Rinsate #1	- 35	06/20/14	9:57	Water			HNO3		

Company Name: Petra Geotechnical Inc.	Project Contact: Jon Cain	Sampler's Signature:	
Address: 41870 County Center Dr.	Tel: (951) 600-9271	Project Name/ID: 12-355	
City/State/Zip: Temecula, CA 92591	Fax/Email: jon@petra-inc.com		
Relinquished by: 06/20/14 12:49	Received by:	Date & Time: 6/20/14 1250	Instructions for Sample Storage After Analysis:
Relinquished by:	Received by:	Date & Time:	O Dispose of O Return to Client O Store (30 Days)
Relinquished by:	Received by:	Date & Time:	O Other

CHAIN OF CUSTODY RECORD

Date:

PETRA

Orange County / Environmental / Corporate

3190 Airport Loop Drive, Suite J1
Costa Mesa, California 92626
T: 714-549-8921 F: 714-549-1438

Riverside County

40880 County Center Drive, Suite R
Temecula, California 92591
T: 951-600-9271 F: 951-600-9215

Los Angeles County

25050 Avenue Kearney, Suite 110A
Valencia, California 91355
T: 661-255-5790 F: 661-255-5242

Desert Region

42-240 Green Way, Suite E
Palm Desert, California 92211
T: 760-340-5303 F: 760-340-5096