PHASE II AGRICULTURAL CHEMICALS SITE ASSESSMENT

PREPARED FOR: GARDEN GROVE AGENCY FOR COMMUNITY DEVELOPMENT

PROPERTY LOCATION: HARBOR BOULEVARD SITE – WATER PARK 12581, 12591, 12625 AND 12721 HARBOR BOULEVARD 12601 AND12602 LEDA LANE GARDEN GROVE, CALIFORNIA 92840

DATE: APRIL 2012



PHASE ONE INC.

THE NATIONWIDE ENVIRONMENTAL SPECIALISTS

"Setting the Due Diligence Industry Standard"

PHASE ONE INC.

ENVIRONMENTAL ASSESSMENT SPECIALISTS

April 27, 2012

Mr. Carlos Marquez Garden Grove Agency for Community Development 11222 Acacia Parkway, 3rd Floor Garden Grove, California 92840

RE: PHASE ONE INC. Project No. 7230

Phase II Agricultural Chemicals Site Assessment

Subject Site Location: Harbor Boulevard Site - Water Park

12581, 12591, 12625, 12721 Harbor Boulevard

12601, 12602 Leda Lane, Garden Grove, California 92840

Dear Mr. Marquez:

Enclosed is the Phase II Agricultural Chemicals Site Assessment Report completed by **PHASE ONE** INC. for the site referenced above (See Figure 1, **Site Location Map**). The Phase II Agricultural Chemicals Site Assessment was undertaken at your request, in accordance with **PHASE ONE** INC.'s **Standard Terms and Conditions** and as outlined in **PHASE ONE** INC.'s **Letters of Intent/Authorization** for Project N^{0} 7230.

The findings and conclusions of this investigation are based upon the observations of *PHASE ONE* **INC.**'s field personnel and the soil sampling analytical results reported by the contracted analytical laboratory. Our conclusions regarding the investigation are summarized in the final section of this report, *Section 5.0 Conclusions and Recommendations*.

Please do not hesitate to contact us should you have any questions regarding this report, or if we can be of additional assistance.

Sincerely,

Eric Kieselbach

(Leesthe)

President

Enclosures

Tel: (714) 669-8055 • Fax: (714) 669-8025

PHASE II AGRICULTURAL CHEMICALS SITE ASSESSMENT

PREPARED FOR: GARDEN GROVE AGENCY FOR COMMUNITY DEVELOPMENT

PROPERTY LOCATION:
HARBOR BOULEVARD SITE – WATER PARK
12581, 12951, 12625, AND 12721 HARBOR BOULEVARD
12601 AND 12602 LEDA LANE
GARDEN GROVE, CALIFORNIA 92840

PROJECT NO. 7230

 \mathbf{BY}

PHASE ONE INC.
23282 MILLCREEK DRIVE, SUITE 160
LAGUNA HILLS, CA 92653
(800) 524-8877

THIS REPORT WAS PREPARED FOR THE SOLE USE AND BENEFIT OF OUR CLIENT, GARDEN GROVE AGENCY FOR COMMUNITY DEVELOPMENT, AND IS BASED, IN PART, UPON DOCUMENTS, WRITINGS, AND INFORMATION OWNED AND POSSESSED BY OUR CLIENT. NEITHER THIS REPORT, NOR ANY OF THE INFORMATION CONTAINED HEREIN, SHALL BE USED OR RELIED UPON FOR ANY PURPOSE BY ANY PERSON OR ENTITY OTHER THAN OUR CLIENT. ALL STANDARD TERMS, CONDITIONS, AND LIMITATIONS BY *PHASE ONE* INC. APPLY AT ALL TIMES AND FOR THIS REPORT AND ALL REPORTS ISSUED BY *PHASE ONE* INC.

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1.0 BACKGROUND INFORMATION

This report presents the results of the Phase II Agricultural Chemicals Site Assessment conducted by *PHASE ONE* INC. at the Harbor Boulevard Site – Water Park, 12581, 12591, 12625, 12721 Harbor Boulevard; 12601 and 12602 Leda Lane, Garden Grove, California 92840 (See **Figure 1**, *Site Location Map*). This Phase II Agricultural Chemicals Site Assessment was undertaken at the request of Mr. Carlos Marquez, Garden Grove Agency for Community Development, in accordance with *PHASE ONE* INC.'s *Standard Terms and Conditions*, as outlined in *PHASE ONE* INC.'s *Letter of Intent/Authorization* for Project Nº 7230.

At the time of this assessment, the site specifics are as follows:

Address: Harbor Boulevard Site – Water Park

12581, 12591, 12625, 12721 Harbor Boulevard, 12601 and 12602 Leda Lane

Garden Grove, California 92840

• Acres: 12.07

Improvements: Vacant LandCurrent Site Use: Vacant Land

• **Proposed Site Use**: Water Park and Hotel

• Site Contact: Carlos Marquez

The proposed field investigation, soil sample locations, and analyses were determined based on the conclusions and recommendations included in *PHASE ONE* INC.'s Phase I Environmental Site Assessment Reports: Project No. 5406, 12625 and 12721 Harbor Blvd, dated April 8, 2003; Project No. 6907, 12591 Harbor Boulevard, dated March 27, 2009; Project No. 6973, 12601 Leda Lane, dated March 11, 2010; and Project No. 6974, 12602 Leda Lane, dated March 11, 2010. They were also determined based on the Phase II Limited Site Assessment Reports, Project No. 6985, 12601 Leda Lane, dated June 14, 2010; and Project No. 6986, 12602 Leda Lane, dated June 15, 2010.

2.0 PROPOSED FIELD INVESTIGATION

Conduct a subsurface investigation for potential soil and groundwater contamination resulting from former agricultural use and off site concerns at the subject site. The boring locations will be cleared by USA and the client. The subsurface evaluation will be completed in accordance with current regulatory guidelines.

Drill up to thirty **six** (36) direct push borings to a maximum depth of **two** (2) feet below ground surface (bgs). Sample collection, analysis, and boring depths are as follows:

Area	Agricultural Sampling Entire Site	Known Agriculture Contaminated areas (2)
# of Borings	28	8, 4 each area
Depth of Borings (feet)	2'	2'
Soil Sample Depths (feet)	Near Surface, 2'	Near Surface, 2'
# of Soil Samples	56	18*
# of samples Analyzed	14 Composite 14 Discrete for Arsenic	ALL
Analysis	EPA 7060 Arsenic EPA 8081 AG Highest 8081 for EPA 8141 AG, EPA 8151 Ag & EPA 7000 Series for CAM 17 Metals	EPA 8081 AG

^{*}Should be 16 samples

Up to **seventy four (74)** samples, plus several duplicates, will be analyzed for at the least one of the above listed analyses.

All borings/probes will be backfilled with cuttings, bentonite or as local jurisdictions require; holes in the surface (other than bare soil) will be repaved with concrete/asphalt.

3.0 ACTUAL FIELD INVESTIGATION

On April 5, 2012, *PHASE ONE* **INC.** completed **thirty-six** (**36**) Geoprobe soil borings at the subject site. The soil borings were identified as GP-1 through GP-28, GP-29A through GP-29D, and GP-30A through GP-30D. The locations of the soil borings are shown on **Figure 2**, *Site Plan*. Details of the actual soil borings are as follows:

BORING DETAILS

Boring ID#	Total Depth (FT)	Sample Depths (FT)	Analyses Run	Location Description (See Figure 2, Site Plan)
GP-1	2	Surface, 2	EPA 8081A (Chlorinated Pesticides) EPA 6010B (Arsenic)	Random within Grid # 1
GP-2	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 2
GP-3	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 3
GP-4	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 4
GP-5	2	Surface, 2	EPA 8081A (Chlorinated Pesticides) EPA 6010B (Arsenic)	Random within grid # 5

Boring ID#	Total Depth (FT)	Sample Depths (FT)	Analyses Run	Location Description (See Figure 2, Site Plan)
GP-6	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 6
GP-7	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within Grid #7
GP-8	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random, Within Grid #8
GP-9	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 9
GP-10	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 10
GP-11	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 11
GP-12	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 12
GP-13	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 13
GP-14	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 14
GP-15	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 15
GP-16	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 16
GP-17	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 17
GP-18	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 18
GP-19	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 19
GP-20	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 20
GP-21	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid #21
GP-22	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 22
GP-23	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 23
GP-24	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 24
GP-25	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 25
GP-26	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 26
GP-27	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 27
GP-28	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Random within grid # 28

Boring ID#	Total Depth (FT)	Sample Depths (FT)	Analyses Run	Location Description (See Figure 2, Site Plan)
GP-29a	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Near removed front planter of 12602 Ledo Lane
GP-29b	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Near removed front planter of 12602 Ledo Lane
GP-29c	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Near removed front planter of 12602 Ledo Lane
GP-29d	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Near removed front planter of 12602 Ledo Lane
GP-30a	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Near eastern corner of removed pool at 12602 Ledo Lane
GP-30b	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Near eastern corner of removed pool at 12602 Ledo Lane
GP-30c	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Near eastern corner of removed pool at 12602 Ledo Lane
GP-30d	2	Surface, 2	EPA 8081A (Chlorinated Pesticides), EPA 6010B (Arsenic)	Near eastern corner of removed pool at 12602 Ledo Lane
TOTAL SAMPLES		72		

For the investigated areas and the soil boring locations, see **Figure 2**, *Site Plan*. All soil samples were collected following the sampling protocol included in **Appendix A**, *Sampling Protocol*.

The proposed Scope of Work detailed in Section 2.0 was not completed as outlined. The following are the deviations from the original Scope of Work:

- No soil samples were run for PCBs. None of the subject site was directly under and/or exposed to any of the pole-mounted transformers.
- A total of 72 soil samples were collected; there was an error in the original soil sample calculation.

4.0 FIELD INVESTIGATION RESULTS

4.1 Subsurface Conditions Encountered

The soils encountered at the subject site within the maximum explored depth of 2 feet below ground surface (bgs) consisted of fine to medium grained sand interlace with up to 1/2" cobbles. Groundwater was not encountered in any of the soil borings. The field personnel did not notice any unusual odors emanating from the soil samples. No other unusual conditions were noted during the field work. The Soil Boring Logs were not necessary to prepare due to the shallow depth and continuous stratigraphy to the depth of 2 feet.

4.2 Analytical Results

Copies of the final analytical reports are included in **Appendix C**, *Analytical Laboratory Reports*. The principal findings of the analysis of the soil samples are presented in the table below. The table below titled "Summary of Analytical Results" comments on the results of the entire EPA analysis method. All the results of all the chemicals identified above Non-Detect (ND) are compared with their respective regulatory screening levels, (when applicable) such as the *United States Environmental Regional Screening Levels* (USEPA RSLs) or other applicable regulatory-designated levels.

SUMMARY OF ANALYTICAL RESULTS

Surface Soil Samples Collected April 5, 2012

Sample ID#	EPA 8081A	EPA SSL Screening Levels for
	(Chlorinated Pesticides)	Industrial Properties
Reporting Unit	ug/kg (PPB)	ug/kg (PPB)
7230-GP	15.2 y-Chlordane,	1,600 y-Chlordane
1,2,3,4-S Comp.	34.6 a-Chlordane,	1,600 a-Chlordane
	6.65 4,4'-DDE,	1,400 4,4'-DDE
	5.58 4,4'-DDD,	2,000 4,4'-DDD
	6.14 4,4'-DDT	1,700 4,4'-DDT
7230-GP	5.96 Endosulfan I,	4.6 Endosulfan
5,6,7,8-S Comp.	20.6 y-Chlordane,	1,600 y-Chlordane
	37.8 a-Chlordane,	1,600 a-Chlordane
	6.0 4,4'-DDE,	1,400 4,4'-DDE
	11.2 Dieldrin,	30 Dieldrin
	10.6 4,4'-DDD,	2,000 4,4'-DDD
	8.16 4,4'-DDT	1,700 4,4'-DDT
7230-GP	10.7 y-Chlordane,	1,600 y-Chlordane
9,10,11,12-S Comp.	18.8 a-Chlordane,	1,600 a-Chlordane
	5.0 4,4'-DDE,	1,400 4,4'-DDE
	8.8 Dieldrin,	30 Dieldrin
	6.08 4,4'-DDD,	2,000 4,4'-DDD
	12.9 4,4'-DDT	1,700 4,4'-DDT
7230-GP	5.62 y-Chlordane,	1,600 y-Chlordane
13,14,15,16-S Comp.	7.38 a-Chlordane,	1,600 a-Chlordane
	5.0 4,4'-DDE,	1,400 4,4'-DDE
	11.2 4,4'-DDD,	2,000 4,4'-DDD
	10.7 4,4'-DDT	1,700 4,4'-DDT
7230-GP	5.2 a-Chlordane,	1,600 a-Chlordane
17,18,19,20-S Comp.	5.2 4,4'-DDE,	1,400 4,4'-DDE
	5.8 4,4'-DDD,	2,000 4,4'-DDD
	7.1 4,4'-DDT	1,700 4,4'-DDT
7230-GP	6.4 a-Chlordane,	1,600 a-Chlordane
21,22,23,24-S Comp.	7.12 4,4'-DDE,	1,400 4,4'-DDE
·	5.59 4,4'-DDD,	2,000 4,4'-DDD
	13.6 4,4'-DDT	1,700 4,4'-DDT
7230-GP	6.1 4,4'-DDE,	1,400 4,4'-DDE
25,26,27,28-S Comp.	7.11 4,4'-DDD,	2,000 4,4'-DDD
	17.3 4,4'-DDT	1,700 4,4'-DDT

ug/kgmicrograms per kilogramPPBParts Per Billion

N/A Not applicable, Not Analyzed

Surface Soil Samples Collected April 5, 2012

Sample ID#	EPA 6010B (Arsenic)	EPA SSL Screening Levels for Industrial Properties
Reporting Unit	mg/kg (PPM)	mg/kg (PPM)
7230-GP-4-S	3.5 Arsenic	1.6**
7230-GP-8-S	3.27 Arsenic	1.6
7230-GP-11-S	2.0 Arsenic	1.6
7230-GP-14-S	4.36 Arsenic	1.6
7230-GP-17-S	8.11 Arsenic	1.6
7230-GP-23-S	4.34 Arsenic	1.6
7230-GP-27-S	7.0 Arsenic	1.6

mg/kg milligrams per kilogram
PPM Parts Per Million

N/A Not applicable, Not Analyzed

SUMMARY OF ANALYTICAL RESULTS

2-Foot Soil Samples Collected April 5, 2012

	2-Foot Son Samples Cone	
Sample ID#	EPA 8081A	Pertinent Screening Levels
_	(Chlorinated Pesticides)	
Reporting Unit	ug/kg (PPB)	ug/kg (PPB)
7230-GP	ND	
1,2,3,4-2 Comp.		
7230-GP	ND	
5,6,7,8-2 Comp.		
7230-GP	ND	
9,10,11,12-2 Comp.		
7230-GP	6.6 4,4'-DDD	2,000 4,4'-DDD
13,14,15,16-2 Comp.	5.6 4,4'-DDT	1,700 4,4'-DDT
7230-GP	ND	
17,18,19,20-2 Comp.		
7230-GP	ND	
21,22,23,24-2 Comp.		
7230-GP	ND	
25,26,27,28-2 Comp.		

Comp.= Composite Sample

ND Non-Detect

ug/kg micrograms per kilogram

PPB Parts Per Billion

N/A Not applicable, Not Analyzed

2-Foot Soil Samples Collected April 5, 2012

Sample ID#	EPA 6010B (Arsenic)	Pertinent Screening Levels
Reporting Unit	mg/kg (PPM)	mg/kg (PPM)
7230-GP-1-2	1.33 Arsenic	1.6 PPM
7230-GP-6-2	1.16 Arsenic	1.6 PPM
7230-GP-11-2	3.45 Arsenic	1.6 PPM
7230-GP-13-2	4.06 Arsenic	1.6 PPM
7230-GP-18-2	1.85 Arsenic	1.6 PPM
7230-GP-21-2	4.4 Arsenic	1.6 PPM
7230-GP-25-2	10.4 Arsenic	

mg/kg milligrams per kilogram
PPB Parts Per Billion

N/A Not applicable, Not Analyzed

SUMMARY OF ANALYTICAL RESULTS

Leda Area 1 Soil Samples Collected April 5, 2012

	Samples Co	<u> </u>
Sample ID#	EPA 8081A	Pertinent Screening Levels
	(Chlorinated Pesticides)	
Reporting Unit	ug/kg (PPB)	ug/kg (PPB)
7230-GP-29a-S	17.3 y-Chlordane,	1,600 y-Chlordane
	39.4 a-Chlordane,	1,600 a-Chlordane
	37.6 4,4'-DDE,	1,400 4,4'-DDE
	7.71 Dieldrin,	30 Dieldrin
	8.47 4,4'-DDD,	2,000 4,4'-DDD
	12 4,4'-DDT	1,700 4,4'-DDT
7230-GP-29a-2	ND	
7230-GP-29b-S	5.0 y-Chlordane,	1,600 y-Chlordane
	12.5 a-Chlordane,	1,600 a-Chlordane
	24.4 4,4'-DDE,	1,400 4,4'-DDE
	8.75 4,4'-DDD,	2,000 4,4'-DDD
	15.6 4,4'-DDT	1,700 4,4'-DDT
7230-GP-29b-2	ND	
7230-GP-29c-S	8.55 a-Chlordane,	1,600 a-Chlordane
	13.9 4,4'-DDE,	1,400 4,4'-DDE
	6.5 4,4'-DDD,	2,000 4,4'-DDD
	17.5 4,4'-DDT	1,700 4,4'-DDT
7230-GP-29c-2	38.4 4,4'-DDE,	1,400 4,4'-DDE
	5.0 4,4'-DDD,	2,000 4,4'-DDD
	16.1 4,4'-DDT	1,700 4,4'-DDT
7230-GP-29d-S	12.7 4,4'-DDE,	1,400 4,4'-DDE
	5.2 4,4'-DDD,	2,000 4,4'-DDD
	31.5 4,4'-DDT	1,700 4,4'-DDT
7230-GP-29d-2 Dup	ND	
7230-GP-29d-2	ND	

ND Non-Detect

ug/kg micrograms per kilogram

PPB Parts Per Billion

Leda Area 1 Soil Samples Collected April 5, 2012

	an i i i en i e e e e e e e e e e e e e e	
Sample ID#	EPA 6010B	Pertinent Screening Levels
	(Arsenic)	
Reporting Unit	mg/kg (PPM)	mg/kg (PPM)
7230-GP-29b-2	ND	1.6

ND Non-Detect

mg/kg milligrams per kilogramPPM Parts Per Million

SUMMARY OF ANALYTICAL RESULTS

Leda Area 4 Soil Samples Collected April 5, 2012

	The coord	<u> </u>
Sample ID#	EPA 8081A	Pertinent Screening Levels
	(Chlorinated Pesticides)	
Reporting Unit	ug/kg (PPB)	ug/kg (PPB)
7230-GP-30a-S	6.73 a-Chlordane,	1,600 a-Chlordane
	29.6 4,4'-DDE,	1,400 4,4'-DDE
	11.1 4,4'-DDD,	2,000 4,4'-DDD
	35.0 4,4'-DDT	1,700 4,4'-DDT
7230-GP-30a-2	ND	
7230-GP-30b-S	13.6 a-Chlordane,	1,600 a-Chlordane
	48.2 4,4'-DDE,	1,400 4,4'-DDE
	13.8 4,4'-DDD,	2,000 4,4'-DDD
	38.1 4,4'-DDT	1,700 4,4'-DDT
7230-GP-30b-S Dup	11.4 a-Chlordane,	1,600 a-Chlordane
	41.4 4,4'-DDE,	1,400 4,4'-DDE
	11.9 4,4'-DDD,	2,000 4,4'-DDD
	30.9 4,4'-DDT,	1,700 4,4'-DDT
7230-GP-30b-2	ND	
7230-GP-30c-S	ND	
7230-GP-30c-2	5.68 y-Chlordane,	1,600 y-Chlordane
	21.0 a-Chlordane,	1,600 a-Chlordane
	53.4 4,4'-DDE,	1,400 4,4'-DDE
	12.5 4,4'-DDD,	2,000 4,4'-DDD
	55.5 4,4'-DDT	1,700 4,4'-DDT
7230-GP-30d-S	ND	
7230-GP-30d-2	5.0 y-Chlordane,	1,600 y-Chlordane
	16.2 a-Chlordane,	1,600 a-Chlordane
	43.0 4,4'-DDE,	1,400 4,4'-DDE
	12.1 4,4'-DDD,	2,000 4,4'-DDD
	57.6 4,4'-DDT	1,700 4,4'-DDT

ND Non-Detect

ug/kg micrograms per kilogram

PPB Parts Per Billion

N/A Not applicable, Not Analyzed

Leda Area 4 Soil Samples Collected April 5, 2012

Sample ID#	EPA 6010B (Arsenic)	Pertinent Screening Levels
Reporting Unit	mg/kg (PPM)	mg/kg (PPM)
7230-GP-30d-S	1.38 Arsenic	1.6

ug/kg micrograms per kilogramPPB Parts Per Billion

N/A Not applicable, Not Analyzed

SUMMARY OF ANALYTICAL RESULTS

Duplicate Soil Samples Collected April 5, 2012

Sample ID#	EPA 6010B (Arsenic)	EPA 8081A (Chlorinated Pesticides)	Pertinent Screening Levels
Reporting Unit	mg/kg (PPM)	ug/kg (PPB)	ug/kg (PPB)
7230-GP-30b-S*	N/A	5.02 a-Chlordane 16.5 4,4'-DDE 5.5 4,4'-DDD 13.3 4,4'DDT	1,600 a-Chlordane 1,400 4,4'-DDE 2,000 4,4'-DDD 1,700 4,4'-DDT
7230-GP-30b-S**	N/A	ND	
7230-GP-5,6,7,8-S Comp.	N/A	12.6 y-Chlordane 22.3 a-Chlordane 5.1 4,4'-DDE 7.13 Dieldrin 10.8 4,4'-DDD 5.2 4,4'-DDT	1,600 y-Chlordane 1,600 a-Chlordane 1,400 4,4'-DDE 30 Dieldrin 2,000 4,4'-DDD 1,700 4,4'-DDT
7230-GP-25-2	22.8 Arsenic	N/A	1.6 PPM
7230-GP-17-S	4.8 Arsenic	N/A	1.6 PPM
7230-GP-27-S	2.59 Arsenic	N/A	1.6 PPM

ug/kg micrograms per kilogram

PPB Parts Per Billion

N/A Not applicable, Not Analyzed

ND Non-Detect

* The sub-sample for this analysis was taken from both ends of the sample container.

** The sub-sample for this analysis was taken from one end of the sample container.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The principal findings of *PHASE ONE* INC.'s Phase II Agricultural Chemicals Site Assessment for all the areas sampled are as follows:

- No levels of Organochlorinated pesticides (USEPA Method 8081A) were detected that are a concern or exceed their respective reporting limits and/or any identified action level.
- Several of the Arsenic (Ar) levels slightly exceeded the EPA Screening levels which is common in California. All levels appeared to be within a reasonable range of background levels for the subject site.

PHASE ONE INC. attempted to assess the most likely potential sources of the agricultural chemicals at the site. **PHASE ONE INC.**, divided the site into 28 grids and random soil samples were collected from each grid. In addition, specific periphery soil samples were collected near the approximate locations of the prior soil sampling conducted at 12602 Leda Lane. Although it is not possible or feasible to sample the site in its entirety, the grid methodology is an effective tool in providing an accurate assessment of agricultural contaminates at the site, since it is an accepted assessment practice in the industry and used by State regulatory agencies. Specific areas of impact may have escaped detection due to:

- 1) Unknown areas where extensive use may have occurred,
- 2) Unknown areas of chemicals storage and handling,
- 3) Difficulty in identifying probable locations, or
- 4) The limited extent of the assessments performed.

Based on the soil sample results presented in this report, *PHASE ONE* INC. concludes that the presence of agricultural chemicals to be low. The assessment results show that no remedial action is required, despite previous agricultural uses. The trace concentrations of agricultural chemicals have not impacted the site as they are well below screening levels. Further investigation is not recommended.

6.0 LIMITATIONS

To achieve the study objectives stated in this report, we were required to base *PHASE ONE* INC.'s conclusions and recommendations on the best information available during the period the investigation was conducted and within the limits prescribed by *PHASE ONE* INC.'s client in the contract/authorization agreement and standard terms and conditions.

PHASE ONE INC.'s professional services were performed using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar fields. The findings were mainly based upon examination of historic records, governmental agencies lists, and laboratory analytical reports. Recommendations are based on the historic land use of the subject property, as well as features noted during the site walk and Phase II assessment. The absence of potential gross contamination sources, historic or present, does not necessarily imply that the subject property is free of any contamination. This report only represents a "due diligence" effort as to the integrity of the subject property. No other warranty or guarantee, expressed or implied, is made as to the professional conclusions or recommendations contained in this report. The limitations contained within this report supersede all other contracts or scopes of work, implied or otherwise, except those stated or acknowledged herewith.

This report is not a legal opinion. It does not necessarily comply with requirements defined in any environmental law such as the "innocent landowner defense" or "due diligence inquiry." Only legal counsel retained by the client is competent to determine the legal implications of any information, conclusions, or recommendations in this report.

The findings, conclusions, recommendations, and professional opinions contained in this report have been prepared by the staff of *PHASE ONE* **INC.**, in accordance with generally accepted professional practices.

Sample results should not be construed as conclusive and binding in any way. All sampling conducted is only for the purposes of general screening and does not imply that all materials, locations, or hazardous materials have been identified nor was the sampling intended to identify every instance of the materials sampled. *PHASE ONE* INC. only relays the information supplied by the laboratory conducting the analysis.

7.0 REPORT SIGNATURE AND CERTIFICATION

The undersigned hereby certifies that:

The following people have prepared, written, and/or reviewed the report for Project #7230. All the below parties have, in good faith, conducted their respective project responsibilities using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar fields.

All parties have acted in good faith and have no known relationship with the subject site, owners, buyers, or any other entity associated with the subject site. All respective project responsibilities have been conducted independently, and with no conflict of interest.

The statements of fact contained in this report are true and correct based on materials reviewed to the best of our abilities.

The reported analyses, opinions, and conclusions are personal, unbiased, professional, and limited only by the assumptions and qualifications stated herein. Compensation is not contingent upon an action or an event resulting from the analyses, opinions, or conclusions included in this report nor is it contingent upon the use of this report.

The investigation has been performed in accordance with all applicable legal requirements and in accordance with accepted practices prevailing in the environmental assessment and environmental consulting industries. The personnel who performed the investigation (or are under the direct supervision of personnel) whom are properly licensed and certified in accordance with the requirements of all federal, state, and local laws, rules, and regulations.

We have no present or prospective interest in the subject property or the parties involved.

If necessary, expert testimony and other legal appearances will be provided at our current Standard Schedule of Rates.

Eric Kieselbach President

Nadine Kieselbach, Copy Editor

Waden 4

Eric Charles Exton, Operations Manager

trie Charles letter

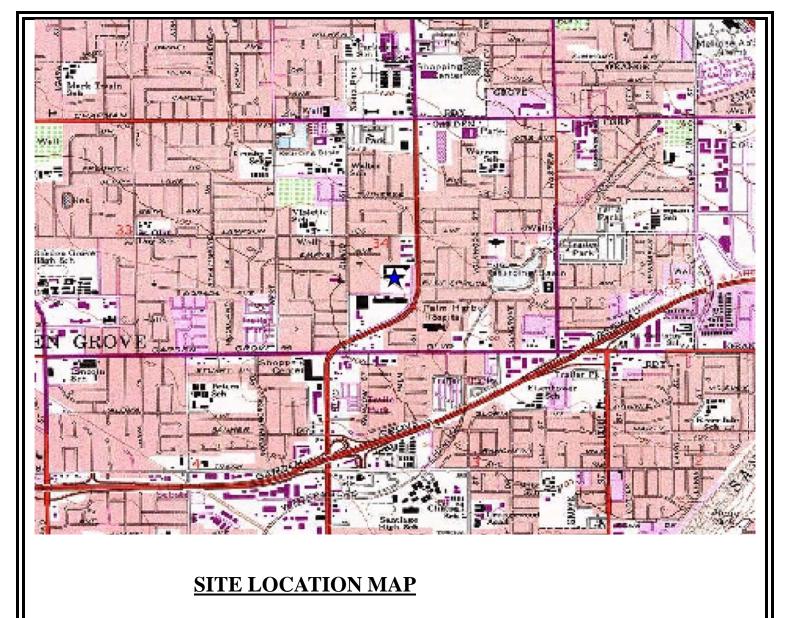
Jav Badiei, PG #6744

JALIL JAY BADIEI
No. 6744
EXP. 12. 31. 13

Copyright 2012 PHASE ONE INC. All Rights Reserved

PHASE ONE INC. Project No. 7230

FIGURES



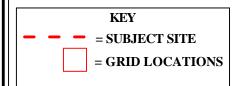
U.S. Geological Survey. Anaheim Quadrangle 7.5 Minute Series, Approximate Scale: 1: 24000

PHASE ONE INC.

Harbor Blvd Site -- Water Park Garden Grove, CA 92840 FIGURE: 1 JOB: 7230 DATE: 5/25/2012



NOT TO SCALE





PHASE ONE INC.

ENVIRONMENTAL ASSESSMENT SPECIALISTS

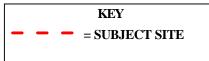
HARBOR BOULEVARD SITE - WATER PARK 12581, 12591, 12625 & 12721 HARBOR BOULEVARD 12601 & 12602 LEDA LANE GARDEN GROVE, CALIFORNIA 92840

DRAWN: LT

FIGURE: 2A	
JOB: 7230	
DATE: 5/7/2012	



HOUSE IN FIGURE REMOVED; LAND GRADED NOT TO SCALE





PHASE ONE INC.

ENVIRONMENTAL ASSESSMENT SPECIALISTS

HARBOR BOULEVARD SITE - WATER PARK LEDA AREA 1 AND 4 12602 LEDA LANE GARDEN GROVE, CALIFORNIA 92840

OCATIONS
2B
7230
5/7/2012

DRAWN: LT

APPENDICES

APPENDIX A

SAMPLING PROTOCOL

SAMPLING PROTOCOL

Harbor Boulevard Site – Water Park 12581, 12591, 12625, 12721 Harbor Boulevard 12601, 12602 Leda Lane Garden Grove, California 92840

INTRODUCTION

This protocol outlines the field procedures utilized for the collection of soil samples as part of *PHASE ONE* INC.'s project number 7230.

PRE-FIELD CONDITIONS AND ACTIVITIES

The following activities or procedures were observed as part of the sampling project:

1. Sampling intervals were approved by *PHASE ONE* **INC.** prior to field operations. An environmental professional observed the work, and collected samples at approved intervals.

FIELD PROCEDURES: SUBSURFACE SOIL SAMPLING – GEOPROBE

The following procedures were observed during soil sampling operations:

- 1. The sampler on the direct-push rig was advanced with a hydraulic mechanism to the target depth. Upon reaching the target depth, the sampler was opened with a special tool. The sampler was then driven down two feet and retrieved from the hole.
- 2. Soil samples from the direct-push rig were collected in a one-inch diameter, two-foot long acetate sleeve. The sample to be submitted for laboratory analysis was cut from the lower portion of the sleeve and capped with Teflon and end caps.
- 3. After the soil samples were removed, the sampler was disassembled; scrubbed in a water bath with Liquinox®; rinsed in two separate water baths, the last of which contained double-distilled water; and re-assembled with a new sample sleeve.

SAMPLE COLLECTION AND LABORATORY PROTOCOL

After soil sample collection, protocol required that the following guidelines and sample tracking be followed to maintain sample integrity:

- 1. After retrieval, each soil sample container was sealed, labeled, and chilled. Clean ice chests were used to keep the soil samples at approximately four degrees Celsius until they were delivered to the state-certified analytical chemical laboratory.
- 2. The samples were delivered directly to the laboratory.

3. Sample control was maintained by a Chain-Of-Custody (COC) record, which accompanies the samples. The form documented the time, date, and person responsible during each step in the transportation process.

SAMPLE CODING—SOIL SAMPLING

The coded sample numbering system does not reveal the client to the laboratory or other interested parties:

- 1. A non-water soluble marking pen is used to mark the labels, which are then applied to the sample tubes.
- 2. **Project Number:** The project number allows **PHASE ONE INC.** to access file and client information. Use of the project number maintains the client's confidentiality to subcontractors, while maintaining **PHASE ONE INC.**'s ability to identify necessary data:

Example: *PHASE ONE* **INC.** Project Number: 1234

The soil sample tubes have the project number written on the label as follows:

1234

3. **Sample Number:** *PHASE ONE* **INC.** numbers its soil samples in the following manner:

T-XX-YY

Where: T Indicates type of sample symbol (see below)

X Indicates boring number

Y Indicates depth of sample in feet below

ground surface (BGS)

Types of sample symbols (T) include:

<u>SYMBOL</u> HA or B = <u>TYPE OF SAMPLE</u> Hand auger soil boring

GP = Geoprobe or Direct push soil boring

For example, if a subsurface soil sample (T=GP) was collected from the first soil boring (X=1) at the three-foot sampling depth (Y=3), the soil sample would be logged as follows:

GP1-3

In review, the number indicates a soil sample from soil boring number one, from a depth of three feet BGS.

4. **Sample Date:** Due to holding time limits for most analyses, it is important to include the date the sample was collected.

Sample Date: January 1, 2001

Sample Labeled: 01/01/01

5. The complete labeling of the soil sample tube includes:

Job Number with appropriate number (i.e. 1234) **Sample Number** as described in point three. **Sample Date** as labeled on the tube.

The sample identification information, as required by *PHASE ONE* **INC.** for the three-foot soil sample collected from boring GP-1 would be as follows:

1234 GP1-3 01/01/01

APPENDIX B

SOIL BORING LOGS

(Not Included, On File at PHASE ONE INC.)

APPENDIX C

ANALYTICAL LABORATORY REPORT

Mr. Eric K. 4/10/2012

Phase One, Inc. 23282 Mill Creek Dr., Suite 160 Laguna Hills, CA 92653

 Project:
 7230

 Project Site:
 7230

 Sample Date:
 4/5/2012

 Lab Job No.:
 P12D012

Dear Mr. Eric K.:

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 4/6/2012 and analyzed by the following EPA methods:

EPA 8081A(Chlorinated Pesticide) EPA 6010B(Arsenic)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909) 923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.

Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.

Tel: (909)923-8628 (562)413-8343 *Fax:* (909)923-8628

Client: Phase One, Inc. Lab Job No.: P12D012 Project: 7230 Date Sampled: 4/5/2012 Project Site: 7230 Date Received: 4/6/2012 Matrix: Soil Date Extracted: 4/7/2012 3550B Date Analyzed: 4/8/2012 Digestion Method: 0408-PES-S Batch No .: Date Reported: 4/10/2012

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: μg/kg (PPB)

Dilution Factor		1	1	1	1
Lab Sample I.D.		P12D012-1,2,3,4	P12D012-5,6,7,8	P12D012-9,10,11,12	P12D012-13,14,15,16
Client Sample I.D.		7230-GP	7230-GP	7230-GP	7230-GP
		1,2,3,4-S Comp.	5,6,7,8-S Comp.	9,10,11,12-S Comp.	13,14,15,16-S Comp.
Compound	RL				
α-ВНС	5	ND	ND	ND	ND
γ-ВНС	5	ND	ND	ND	ND
Heptachlor	5	ND	ND	ND	ND
Aldrin	5	ND	ND	ND	ND
β-ВНС	5	ND	ND	ND	ND
δ-ВНС	5	ND	ND	ND	ND
Heptachlor Epoxide	5	ND	ND	ND	ND
Endosulfan I	5	ND	5.96	ND	ND
γ-Chlordane	5	15.2	20.6	10.7	5.62
α-Chlordane	5	34.6	37.8	18.8	7.38
4,4'-DDE	5	6.65	6	5	5
Dieldrin	5	ND	11.2	8.8	ND
Endrin	5	ND	ND	ND	ND
Endosulfan II	5	ND	ND	ND	ND
4,4'-DDD	5	5.58	10.6	6.08	11.2
4,4'-DDT	5	6.14	8.16	12.9	10.7
Endrin Aldehyde	5	ND	ND	ND	ND
Endosulfan Sulfate	5	ND	ND	ND	ND
Methoxychlor	20	ND	ND	ND	ND
Endrin Ketone	10	ND	ND	ND	ND
Technical Chlordane	25	ND	ND	ND	ND
Toxaphene	100	ND	ND	ND	ND

ND: Not Detected (Below DF x RL).

RL: Reporting Limit

Tel: (909)923-8628 (562)413-8343 Fax: (909)923-8628

1640 S. Grove Ave., Suite B Ontario, CA 91761

Client: Phase One, Inc. Lab Job No.: P12D012 Project: 7230 Date Sampled: 4/5/2012 Project Site: 7230 Date Received: 4/6/2012 Matrix: Soil Date Extracted: 4/7/2012 3550B Date Analyzed: 4/8/2012 Digestion Method: Batch No .: 0408-PES-S Date Reported: 4/10/2012

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

Dilution Factor		1	1	1	
Lab Sample I.D.		P12D012-17,18,19,20	P12D012-21,22,23,24	P12D012-25,26,27,28	
Client Sample I.D.		7230-GP	7230-GP	7230-GP	
		17,18,19,20-S Comp.	21,22,23,24-S Comp.	25,26,27,28-S Comp.	
Compound	RL				
α-ВНС	5	ND	ND	ND	
ү-ВНС	5	ND	ND	ND	
Heptachlor	5	ND	ND	ND	
Aldrin	5	ND	ND	ND	
β-ВНС	5	ND	ND	ND	
δ-ВНС	5	ND	ND	ND	
Heptachlor Epoxide	5	ND	ND	ND	
Endosulfan I	5	ND	ND	ND	
γ-Chlordane	5	ND	ND	ND	
α-Chlordane	5	5.2	6.4	ND	
4,4'-DDE	5	5.2	7.12	6.1	
Dieldrin	5	ND	ND	ND	
Endrin	5	ND	ND	ND	
Endosulfan II	5	ND	ND	ND	
4,4'-DDD	5	5.8	5.59	7.11	
4,4'-DDT	5	7.1	13.6	17.3	
Endrin Aldehyde	5	ND	ND	ND	
Endosulfan Sulfate	5	ND	ND	ND	
Methoxychlor	20	ND	ND	ND	
Endrin Ketone	10	ND	ND	ND	
Technical Chlordane	25	ND	ND	ND	
Toxaphene	100	ND	ND	ND	

ND: Not Detected (Below DF x RL).

RL: Reporting Limit

Tel: (909)923-8628 (562)413-8343 Fax: (909)923-8628

1640 S. Grove Ave., Suite B Ontario, CA 91761

EPA Method 8081A Batch QA/QC Report

Client: Phase One, Inc. Lab Job No.: P12D012 7230 Lab Sample ID: Project: P12D013-1 Date Analyzed: Matrix: Soil 4/8/2012 0408-PES-S Date Reported Batch No .: 4/10/2012

MB/MS/MSD Report

Unit: ug/kg

Compound	Sample	Spike	MS	MSD	MS	MSD	%RPD	%RPD	%Rec.
	Conc.	Conc.			%Rec.	%Rec.		Accept	Accept
								Limit	Limit
ү-ВНС	ND	20	18.1	20.2	91	91 101 11		≤30	70-130
Heptachlor	ND	20	19.2	18.5	96	93	4	≤30	50-150
Aldrin	ND	20	20.5	17.6	103	88	15	≤30	50-140
Dieldrin	ND	40	38.5	37.2	96	93	3	≤30	70-130
Endrin	ND	40	35.2	34.5	88	86	2	≤30	70-150
4,4'-DDT	ND	40	36.4	37.1	91	1 93 2		≤30	20-160

MB/LCS Report

Unit: ug/kg

			<u> </u>		
Analyte	Method	Report	True	Rec.%	Accept
	Blank	Value	Value		Limit
ү-ВНС	ND	18.5	20	93	50-150
Heptachlor	ND	17.5	20	88	50-150
Aldrin	ND	20.3	20	102	50-140
Dieldrin	ND	33.4	40	84	70-130
Endrin	ND	35.2	40	88	70-150
4,4'-DDT	ND	31.5	40	79	30-130

ND: Not Detected (Below RL).

Tel: (909)923-8628 (562)413-8343

Fax: (909)923-8628

Client:	Phase One, Inc.	Lab Job No.:	P12D012
Project:	7230	Date Sampled:	4/5/2012
Project Site:	7230	Date Received:	4/6/2012
Matrix:	Soil	Date Digested:	4/7/2012
Digestion Method:	3050B	Date Analyzed:	4/7/2012
Batch No.:	0407-MT-S	Date Reported:	4/10/2012

EPA 6010B (Arsenic)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Arsenic (As)	
	Reporting Limit	1	
7230-GP-4-S	P12D012-4	3.5	
7230-GP-8-S	P12D012-8	3.27	
7230-GP-11-S	P12D012-11	2	
7230-GP-14-S	P12D012-14	4.36	
7230-GP-17-S	P12D012-17	8.11	
7230-GP-23-S	P12D012-23	4.34	
7230-GP-27-S	P12D012-27	7	

Tel: (909)923-8628 (562)413-8343 *Fax:* (909)923-8628

EPA 6010B (Arsenic) Batch QA/QC Report

Client: Phase One, Inc. Lab Job No.: P12D012 Project: 7230 Lab Sample ID: LCS Matrix: Soil Date Analyzed: 4/7/2012 0407-MT-S Date Reported: 4/10/2012 Batch No .:

MB/LCS/LCSD Report

Unit: mg/kg

	EPA	Method	Spike	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec.
Element	Method	Blank	Conc.			%Rec.	%Rec.		Accept	Accept
									Limit	Limit
Arsenic (As)	6010B	ND	10	9.9	9.6	99	96	3	≤20	80-120

ND: Not Detected (at the specified limit).

Tel: (909)923-8628 (562)413-8343 *Fax:* (909)923-8628

ABC

WW=Waste Water

SD=Solid Waste

AR=Air

PP=Pure Product

Environmental Laboratories, Inc. 1640B S. Grove Ave., Ontario, CA 91761

Tel/ Fax: 909-923-8628 CHAIN OF CUSTODY Lab Job Number 19/2 19012

P=Plastic Bottle

V=VOA Vial

G=Glass Container

ST= Steel Tube

HS=H2SO4

Client Name	PE	J			Sample	e Receipt	Analyses Requested														Turn Around Time Requested
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HN=HNO3

ABC

Environmental Laboratories, Inc.

1640B S. Grove Ave., Ontario, CA 91761

Tel/ Fax: 909-923-8628 CHAIN OF CUSTODY Lab Job Number #120012

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PP=Pure Product

Mr. Eric K. 4/10/2012

Phase One, Inc. 23282 Mill Creek Dr., Suite 160 Laguna Hills, CA 92653

 Project:
 7230

 Project Site:
 7230

 Sample Date:
 4/5/2012

 Lab Job No.:
 P12D013

Dear Mr. Eric K.:

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 4/6/2012 and analyzed by the following EPA methods:

EPA 8081A(Chlorinated Pesticide) EPA 6010B(Arsenic)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909) 923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.

Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.

Tel: (909)923-8628 (562)413-8343 *Fax:* (909)923-8628

1640 S. Grove Ave., Suite B Ontario, CA 91761

Client: Phase One, Inc. Lab Job No.: P12D013 Project: 7230 Date Sampled: 4/5/2012 Project Site: 7230 Date Received: 4/6/2012 Matrix: Soil Date Extracted: 4/7/2012 Digestion Method: 3550B Date Analyzed: 4/8/2012 0408-PES-S Batch No .: Date Reported: 4/10/2012

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

Dilution Factor		1	1	1	1
Lab Sample I.D.		P12D013-1,2,3,4	P12D013-5,6,7,8	P12D013-9,10,11,12	P12D013-13,14,15,16
Client Sample I.D.		7230-GP	7230-GP	7230-GP	7230-GP
		1,2,3,4-2 Comp.	5,6,7,8-2 Comp.	9,10,11,12-2 Comp.	13,14,15,16-2 Comp.
Compound	RL				
α-ВНС	5	ND	ND	ND	ND
γ-ВНС	5	ND	ND	ND	ND
Heptachlor	5	ND	ND	ND	ND
Aldrin	5	ND	ND	ND	ND
β-ВНС	5	ND	ND	ND	ND
δ-ВНС	5	ND	ND	ND	ND
Heptachlor Epoxide	5	ND	ND	ND	ND
Endosulfan I	5	ND	ND	ND	ND
γ-Chlordane	5	ND	ND	ND	ND
α-Chlordane	5	ND	ND	ND	ND
4,4'-DDE	5	ND	ND	ND	ND
Dieldrin	5	ND	ND	ND	ND
Endrin	5	ND	ND	ND	ND
Endosulfan II	5	ND	ND	ND	ND
4,4'-DDD	5	ND	ND	ND	6.6
4,4'-DDT	5	ND	ND	ND	5.6
Endrin Aldehyde	5	ND	ND	ND	ND
Endosulfan Sulfate	5	ND	ND	ND	ND
Methoxychlor	20	ND	ND	ND	ND
Endrin Ketone	10	ND	ND	ND	ND
Technical Chlordane	25	ND	ND	ND	ND
Toxaphene	100	ND	ND	ND	ND

ND: Not Detected (Below DF x RL).

RL: Reporting Limit

Tel: (909)923-8628 (562)413-8343 *Fax:* (909)923-8628

Client: Phase One, Inc. Lab Job No.: P12D013 Project: 7230 Date Sampled: 4/5/2012 Project Site: 7230 Date Received: 4/6/2012 Matrix: Soil Date Extracted: 4/7/2012 3550B Date Analyzed: 4/8/2012 Digestion Method: Date Reported: Batch No .: 0408-PES-S 4/10/2012

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

Dilution Factor		1	1	1	
Lab Sample I.D.		P12D013-17,18,19,20	P12D013-21,22,23,24	P12D013-25,26,27,28	
Client Sample I.D.		7230-GP	7230-GP	7230-GP	
		17,18,19,20-2 Comp.	21,22,23,24-2 Comp.	25,26,27,28-2 Comp.	
Compound	RL				
α-ВНС	5	ND	ND	ND	
ү-ВНС	5	ND	ND	ND	
Heptachlor	5	ND	ND	ND	
Aldrin	5	ND	ND	ND	
β-ВНС	5	ND	ND	ND	
δ-ВНС	5	ND	ND	ND	
Heptachlor Epoxide	5	ND	ND	ND	
Endosulfan I	5	ND	ND	ND	
γ-Chlordane	5	ND	ND	ND	
α-Chlordane	5	ND	ND	ND	
4,4'-DDE	5	ND	ND	ND	
Dieldrin	5	ND	ND	ND	
Endrin	5	ND	ND	ND	
Endosulfan II	5	ND	ND	ND	
4,4'-DDD	5	ND	ND	ND	
4,4'-DDT	5	ND	ND	ND	
Endrin Aldehyde	5	ND	ND	ND	
Endosulfan Sulfate	5	ND	ND	ND	
Methoxychlor	20	ND	ND	ND	
Endrin Ketone	10	ND	ND	ND	
Technical Chlordane	25	ND	ND	ND	
Toxaphene	100	ND	ND	ND	

ND: Not Detected (Below DF x RL).

RL: Reporting Limit

EPA Method 8081A Batch QA/QC Report

Client: Phase One, Inc. Lab Job No.: P12D013 7230 Project: Lab Sample ID: P13D013-1,2,3,4 Matrix: Soil Date Analyzed: 4/8/2012 0408-PES-S Date Reported Batch No .: 4/10/2012

MB/MS/MSD Report

Unit: 119/kg

				Omt.	ug/kg				
Compound	Sample	Spike	MS	MSD	MS	MSD	%RPD	%RPD	%Rec.
	Conc.	Conc.			%Rec.	%Rec.		Accept	Accept
								Limit	Limit
ү-ВНС	ND	20	18.1	20.2	91	101	11	≤30	70-130
Heptachlor	ND	20	19.2	18.5	96	93	4	≤30	50-150
Aldrin	ND	20	20.5	17.6	103	88	15	≤30	50-140
Dieldrin	ND	40	38.5	37.2	96	93	3	≤30	70-130
Endrin	ND	40	35.2	34.5	88	86	86 2		70-150
4,4'-DDT	ND	40	36.4	37.1	91	93	2	≤30	20-160

MB/LCS Report

Unit: ug/kg

Analyte	Method	Report	True	Rec.%	Accept
	Blank	Value	Value		Limit
ү-ВНС	ND	18.5	20	93	50-150
Heptachlor	ND	17.5	20	88	50-150
Aldrin	ND	20.3	20	102	50-140
Dieldrin	ND	33.4	40	84	70-130
Endrin	ND	35.2	40	88	70-150
4,4'-DDT	ND	31.5	40	79	30-130

ND: Not Detected (Below RL).

Tel: (909)923-8628 (562)413-8343

Fax: (909)923-8628

Client:	Phase One, Inc.	Lab Job No.:	P12D013
Project:	7230	Date Sampled:	4/5/2012
Project Site:	7230	Date Received:	4/6/2012
Matrix:	Soil	Date Digested:	4/7/2012
Digestion Method:	3050B	Date Analyzed:	4/7/2012
Batch No.:	0407-MT-S	Date Reported:	4/10/2012

EPA 6010B (Arsenic)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Arsenic (As)	
	Reporting Limit	1	
7230-GP-1-2	P12D013-1	1.33	
7230-GP-6-2	P12D013-6	1.16	
7230-GP-11-2	P12D013-11	3.45	
7230-GP-13-2	P12D013-13	4.06	
7230-GP-18-2	P12D013-18	1.85	
7230-GP-21-2	P12D013-21	4.4	
7230-GP-25-2	P12D013-25	10.4	

EPA 6010B (Arsenic) Batch QA/QC Report

Client: Phase One, Inc. Lab Job No.: P12D013 Project: 7230 Lab Sample ID: LCS Soil Date Analyzed: Matrix: 4/7/2012 0407-MT-S Date Reported: Batch No .: 4/10/2012

MB/LCS/LCSD Report

Unit: mg/kg

	EPA	Method	Spike	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec.
Element	Method	Blank	Conc.			%Rec.	%Rec.		Accept	Accept
									Limit	Limit
Arsenic (As)	6010B	ND	10	9.9	9.6	99	96	3	≤20	80-120

ND: Not Detected (at the specified limit).

Environmental Laboratories, Inc. 1640B S. Grove Ave., Ontario, CA 91761

Tel/ Fax: 909-923-8628 CHAIN OF CUSTODY Lab Job Number P12 P013

Client Name		Po	DI						mple	Rece	ipt						۱na	lys	es I	Req	ues	stec	t				urn Around ne Requested	
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Project 7230 No./ Name	Proj	ect Site	7	- 2	23	30			o s	ample	Seal	VOCs &	STEX &	BTEX	EPA8015M / 8015B	EPA8015M / 8015B	EPA8081A (Organochlorine	(PCBs)	(TRPH)	(Carbon	(Metals)	Metals		5,	はった	ور	Normal	
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Matrix Code:

DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste

SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product

Preservative Code

IC=Ice HC=HCI HN=HNO3 SH=NaOH ST=Na₂S₂O₃ HS=H2SO4

* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube

B= Brass Tube P=Plastic Bottle V=VOA Vial

E= EnCore

ABC Environmental Laboratories, Inc.

1640B S. Grove Ave., Ontario, CA 91761

Tel/ Fax: 909-923-8628 CHAIN OF CUSTODY Lab Job Number PIZ Do 13

Client Name	P	POI				Receipt				52	F	na	lys	es F	Req	ues	stec	k			Turn Around Time Requested
Address	Laguna	+	1/15		Condition	chilled	enates)	Oxygenates)	E)	oline)	el)	sticides)			(ı				1		☐ Rush 8 12 24 48
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Project 723D No./ Name	Project Site	7	230)	□ s	Sample Seal	(VOCs	E	(BTEX	/8015B	/8015B	(Organochlorine	(PCBs)	(TRPH)	5M (Carbon	(Metals)	Metals		ije (Normal
Client	PERSONAL PROPERTY AND ADDRESS.	Sample C	Collection			No., type* & size of	260B	EPA8260B(BT	Ω	EPA8015M	EPA8015M	EPA8081A	8082 (18.1	8015M	2000Z	17		501		Remarks
Sample ID 7230-6P	Sample ID	Date	Time	Туре		container		EPA8	EPA8021	EPA8	EPA8	EPA8	EPA 8	EPA4	EPA8	EPA .	CAM		X		
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Matrix Code.

DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste

SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product

Preservative Code

IC=Ice HC=HCI HN=HNO3

SH=NaOH ST=Na₂S₂O₃ HS=H2SO4

Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube

B= Brass Tube P=Plastic Bottle V=VOA Vial

E= EnCore

Mr. Eric K. 4/11/2012

Phase One, Inc. 23282 Mill Creek Dr., Suite 160 Laguna Hills, CA 92653

 Project:
 7230

 Project Site:
 7230

 Sample Date:
 4/5/2012

 Lab Job No.:
 P12D014

Dear Mr. Eric K.:

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 4/6/2012 and analyzed by the following EPA methods:

EPA 8081A(Chlorinated Pesticide) EPA 6010B(Arsenic)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909) 923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.

Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.

Tel: (909)923-8628 (562)413-8343 *Fax:* (909)923-8628

Client: Phase One, Inc. Lab Job No.: P12D014 Project: 7230 Date Sampled: 4/5/2012 Project Site: 7230 Date Received: 4/6/2012 Matrix: Soil Date Extracted: 4/7/2012 Digestion Method: 3550B Date Analyzed: 4/7/2012 0407-PES-S Batch No .: Date Reported: 4/11/2012

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

Dilution Factor		1	1	1	1	1
Lab Sample I.D.		P12D014-1	P12D014-2	P12D014-3	P12D014-4	P12D014-5
Client Sample I.D.		7230-GP-29a-S	7230-GP-29a-2	7230-GP-29b-S	7230-GP-29b-2	7230-GP-29c-S
Compound	RL					
α-ВНС	5	ND	ND	ND	ND	ND
γ-ВНС	5	ND	ND	ND	ND	ND
Heptachlor	5	ND	ND	ND	ND	ND
Aldrin	5	ND	ND	ND	ND	ND
β-ВНС	5	ND	ND	ND	ND	ND
δ-ВНС	5	ND	ND	ND	ND	ND
Heptachlor Epoxide	5	ND	ND	ND	ND	ND
Endosulfan I	5	ND	ND	ND	ND	ND
γ-Chlordane	5	17.3	ND	5	ND	ND
α-Chlordane	5	39.4	ND	12.5	ND	8.55
4,4'-DDE	5	37.6	ND	24.4	ND	13.9
Dieldrin	5	7.71	ND	ND	ND	ND
Endrin	5	ND	ND	ND	ND	ND
Endosulfan II	5	ND	ND	ND	ND	ND
4,4'-DDD	5	8.47	ND	8.75	ND	6.5
4,4'-DDT	5	12	ND	15.6	ND	17.5
Endrin Aldehyde	5	ND	ND	ND	ND	ND
Endosulfan Sulfate	5	ND	ND	ND	ND	ND
Methoxychlor	20	ND	ND	ND	ND	ND
Endrin Ketone	10	ND	ND	ND	ND	ND
Technical Chlordane	25	ND	ND	ND	ND	ND
Toxaphene	100	ND	ND	ND	ND	ND

ND: Not Detected (Below DF x RL).

RL: Reporting Limit

Client: Phase One, Inc. Lab Job No.: P12D014 Project: 7230 Date Sampled: 4/5/2012 Project Site: 7230 Date Received: 4/6/2012 Date Extracted: Matrix: Soil 4/7/2012 3550B Date Analyzed: 4/7/2012 Digestion Method: Batch No .: 0407-PES-S Date Reported: 4/11/2012

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

Dilution Factor		1	1	1	1
Lab Sample I.D.		P12D014-6	P12D014-7	P12D014-8	P12D014-9
Client Sample I.D.		7230-GP-29c-2	7230-GP-29d-S	7230-GP-29d-2 Dup	7230-GP-29d-2
Compound	RL				
α-ВНС	5	ND	ND	ND	ND
ү-ВНС	5	ND	ND	ND	ND
Heptachlor	5	ND	ND	ND	ND
Aldrin	5	ND	ND	ND	ND
β-ВНС	5	ND	ND	ND	ND
δ-ВНС	5	ND	ND	ND	ND
Heptachlor Epoxide	5	ND	ND	ND	ND
Endosulfan I	5	ND	ND	ND	ND
γ-Chlordane	5	ND	ND	ND	ND
α-Chlordane	5	ND	ND	ND	ND
4,4'-DDE	5	38.4	12.7	ND	ND
Dieldrin	5	ND	ND	ND	ND
Endrin	5	ND	ND	ND	ND
Endosulfan II	5	ND	ND	ND	ND
4,4'-DDD	5	5	5.2	ND	ND
4,4'-DDT	5	16.1	31.5	ND	ND
Endrin Aldehyde	5	ND	ND	ND	ND
Endosulfan Sulfate	5	ND	ND	ND	ND
Methoxychlor	20	ND	ND	ND	ND
Endrin Ketone	10	ND	ND	ND	ND
Technical Chlordane	25	ND	ND	ND	ND
Toxaphene	100	ND	ND	ND	ND

ND: Not Detected (Below DF x RL).

RL: Reporting Limit

Tel: (909)923-8628 (562)413-8343 *Fax:* (909)923-8628

EPA Method 8081A Batch QA/QC Report

Client: Phase One, Inc. Lab Job No.: P12D014 7230 Project: Lab Sample ID: P12D014-2 Date Analyzed: Matrix: Soil 4/7/2012 0407-PES-S Date Reported Batch No .: 4/11/2012

MB/MS/MSD Report

Unit: ug/kg

1					ug/Kg				
Compound	Sample	Spike	MS	MSD	MS	MSD	%RPD	%RPD	%Rec.
	Conc.	Conc.			%Rec.	%Rec.		Accept	Accept
								Limit	Limit
ү-ВНС	ND	20	19.5	18.5	98	93	5	≤30	70-130
Heptachlor	ND	20	20.2	19.2	101	96	5	≤30	50-150
Aldrin	ND	20	18.6	18.1	93	91	3	≤30	50-140
Dieldrin	ND	40	35.5	36.3	89	91	2	≤30	70-130
Endrin	ND	40	36.8	37.2	92	93	1	≤30	70-150
4,4'-DDT	ND	40	37.2	38.5	93	96	3	≤30	20-160

MB/LCS Report

Unit: ug/kg

			<u> </u>		
Analyte	Method	Report	True	Rec.%	Accept
	Blank	Value	Value		Limit
ү-ВНС	ND	20.1	20	101	50-150
Heptachlor	ND	18.5	20	93	50-150
Aldrin	ND	19.2	20	96	50-140
Dieldrin	ND	35.2	40	88	70-130
Endrin	ND	33.6	40	84	70-150
4,4'-DDT	ND	34.5	40	86	30-130

ND: Not Detected (Below RL).

Client:	Phase One, Inc.	Lab Job No.:	P12D014
Project:	7230	Date Sampled:	4/5/2012
Project Site:	7230	Date Received:	4/6/2012
Matrix:	Soil	Date Digested:	4/7/2012
Digestion Method:	3050B	Date Analyzed:	4/7/2012
Batch No.:	0407-MT-S	Date Reported:	4/11/2012

EPA 6010B (Arsenic)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Arsenic (As)	
	Reporting Limit	1	
7230-GP-29b-2	P12D014-4	ND	

EPA 6010B (Arsenic) Batch QA/QC Report

Client: Phase One, Inc. Lab Job No.: P12D014 Project: 7230 Lab Sample ID: LCS Soil Date Analyzed: Matrix: 4/7/2012 0407-MT-S Date Reported: 4/11/2012 Batch No .:

MB/LCS/LCSD Report

Unit: mg/kg

				0						
	EPA	Method	Spike	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec.
Element	Method	Blank	Conc.			%Rec.	%Rec.		Accept	Accept
									Limit	Limit
Arsenic (As)	6010B	ND	10	9.9	9.6	99	96	3	≤20	80-120

ND: Not Detected (at the specified limit).

GW=Ground Water

WW=Waste Water

SD=Solid Waste

SS=Soil/Sediment

PP=Pure Product

AR=Air

1640B S. Grove Ave., Ontario, CA 91761

Tel: 562-413-8343

Tel/ Fax: 909-923-8628 CHAIN OF CUSTODY

HS=H2SO4

G=Glass Container

ST= Steel Tube

	Page	1	of		
1	Lab Job	Number	p	2D	014

V=VOA Vial

P=Plastic Bottle

Client Name	POT				Sample	Receipt		2.401.000	nos ev/Hellone		-	Ana	lys	es l	Rec	lue	ste	d		Turn Around Time Requested
Address Report Attention EX Project 7230 No./ Name	Fax: # //9-6	4/15 69-80 7-230		oled By	70 11	chilled ntact Sample Seal	/OCs & Oxygenates)	TEX & Oxygenates)	(BTEX & MTBE)	8015B (Gasoline)	8015B (Diesel)	(Organochlorine Pesticides)	CBs)	(тврн)	(Carbon Chain)	(Metals)	als	"(C(Ar)		Rush 8 12 24 48 Hours Normal
Client Sample ID	Lab Sample ID	Sample C Date	Collection	121711115	Sample Preserve	No., type* & size of container	8260B (\	EPA8260B(BT	EPA8021B (E	EPA8015M /	EPA8015M /	EPA8081A (c	EPA 8082 (P	EPA418.1 (T	EPA8015M (EPA 7000s (I	CAM 17 Metals	Arse		Remarks
29a-5	612D014-1	4/5/12	A.U.	Soil	NO	BT/1	1017					X								
29a-2	1 -2	1							4											
296-S	-3							_					1	1						
296-2	4						-								1			X.		
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Matrix Code:	DW=Drinking Wa GW=Ground Wat		Sludge Soil/Sediment	The state of the s	tive Code	IC=Ice HC=HCI				=NaC =Na2S				e Con		r Type	es:	B= Br	ass Tube	E= EnCore

HN=HNO3

Mr. Eric K. 4/11/2012

Phase One, Inc. 23282 Mill Creek Dr., Suite 160 Laguna Hills, CA 92653

 Project:
 7230

 Project Site:
 7230

 Sample Date:
 4/5/2012

 Lab Job No.:
 P12D014A

Dear Mr. Eric K.:

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 4/6/2012 and analyzed by the following EPA methods:

EPA 8081A(Chlorinated Pesticide) EPA 6010B(Arsenic)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909) 923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.

Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.

Client:	Phase One, Inc.	Lab Job No.:	P12D014A
Project:	7230	Date Sampled:	4/5/2012
Project Site:	7230	Date Received:	4/6/2012
Matrix:	Soil	Date Extracted:	4/7/2012
Digestion Method:	3550B	Date Analyzed:	4/7/2012
Batch No.:	0407-PES-S	Date Reported:	4/11/2012

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

Dilution Factor		1	1	1	1
Lab Sample I.D.		P12D014A-10	P12D014A-11	P12D014A-12	P12D014A-13
Client Sample I.D.		7230-GP-30a-S	7230-GP-30a-2	7230-GP-30b-S	7230-GP-30b-S Dup
Compound	RL				
α-ВНС	5	ND	ND	ND	ND
ү-ВНС	5	ND	ND	ND	ND
Heptachlor	5	ND	ND	ND	ND
Aldrin	5	ND	ND	ND	ND
β-ВНС	5	ND	ND	ND	ND
δ-ВНС	5	ND	ND	ND	ND
Heptachlor Epoxide	5	ND	ND	ND	ND
Endosulfan I	5	ND	ND	ND	ND
γ-Chlordane	5	ND	ND	ND	ND
α-Chlordane	5	6.73	ND	13.6	11.4
4,4'-DDE	5	29.6	ND	48.2	41.4
Dieldrin	5	ND	ND	ND	ND
Endrin	5	ND	ND	ND	ND
Endosulfan II	5	ND	ND	ND	ND
4,4'-DDD	5	11.1	ND	13.8	11.9
4,4'-DDT	5	35	ND	38.1	30.9
Endrin Aldehyde	5	ND	ND	ND	ND
Endosulfan Sulfate	5	ND	ND	ND	ND
Methoxychlor	20	ND	ND	ND	ND
Endrin Ketone	10	ND	ND	ND	ND
Technical Chlordane	25	ND	ND	ND	ND
Toxaphene	100	ND	ND	ND	ND

ND: Not Detected (Below DF x RL).

RL: Reporting Limit

Tel: (909)923-8628 (562)413-8343 Fax: (909)923-8628

Client: Phase One, Inc. Lab Job No.: P12D014A Project: 7230 Date Sampled: 4/5/2012 Project Site: 7230 Date Received: 4/6/2012 Matrix: Soil Date Extracted: 4/7/2012 3550B Date Analyzed: 4/7/2012 Digestion Method: Batch No .: 0407-PES-S Date Reported: 4/11/2012

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

Dilution Factor		1	iting Oint. μg/kg	1	1	1
Lab Sample I.D.		P12D014A-14	P12D014A-15	P12D014A-16	P12D014A-17	P12D014A-18
Client Sample I.D.		7230-GP-30b-2	7230-GP-30c-S	7230-GP-30c-2	7230-GP-30d-S	7230-GP-30d-2
Compound	RL					
α-ВНС	5	ND	ND	ND	ND	ND
ү-ВНС	5	ND	ND	ND	ND	ND
Heptachlor	5	ND	ND	ND	ND	ND
Aldrin	5	ND	ND	ND	ND	ND
β-ВНС	5	ND	ND	ND	ND	ND
δ-ВНС	5	ND	ND	ND	ND	ND
Heptachlor Epoxide	5	ND	ND	ND	ND	ND
Endosulfan I	5	ND	ND	ND	ND	ND
γ-Chlordane	5	ND	ND	5.68	ND	5
α-Chlordane	5	ND	ND	21	ND	16.2
4,4'-DDE	5	ND	ND	53.4	ND	43
Dieldrin	5	ND	ND	ND	ND	ND
Endrin	5	ND	ND	ND	ND	ND
Endosulfan II	5	ND	ND	ND	ND	ND
4,4'-DDD	5	ND	ND	12.5	ND	12.1
4,4'-DDT	5	ND	ND	55.5	ND	57.6
Endrin Aldehyde	5	ND	ND	ND	ND	ND
Endosulfan Sulfate	5	ND	ND	ND	ND	ND
Methoxychlor	20	ND	ND	ND	ND	ND
Endrin Ketone	10	ND	ND	ND	ND	ND
Technical Chlordane	25	ND	ND	ND	ND	ND
Toxaphene	100	ND	ND	ND	ND	ND

ND: Not Detected (Below DF x RL).

RL: Reporting Limit

EPA Method 8081A Batch QA/QC Report

Client: Phase One, Inc. Lab Job No.: P12D014A Project: 7230 Lab Sample ID: P12D014-2 Date Analyzed: Matrix: Soil 4/7/2012 0407-PES-S Date Reported Batch No .: 4/11/2012

MB/MS/MSD Report

Unit: ug/kg

Compound	Sample	Spike	MS	MSD	MS	MSD	%RPD	%RPD	%Rec.
	Conc.	Conc.			%Rec.	%Rec.		Accept	Accept
								Limit	Limit
ү-ВНС	ND	20	19.5	18.5	98	93	5	≤30	70-130
Heptachlor	ND	20	20.2	19.2	101	96	5	≤30	50-150
Aldrin	ND	20	18.6	18.1	93	91	3	≤30	50-140
Dieldrin	ND	40	35.5	36.3	89	91	2	≤30	70-130
Endrin	ND	40	36.8	37.2	92	93	1	≤30	70-150
4,4'-DDT	ND	40	37.2	38.5	93	96	3	≤30	20-160

MB/LCS Report

Unit: ug/kg

Analyte	Method	Report	True	Rec.%	Accept
	Blank	Value	Value		Limit
ү-ВНС	ND	20.1	20	101	50-150
Heptachlor	ND	18.5	20	93	50-150
Aldrin	ND	19.2	20	96	50-140
Dieldrin	ND	35.2	40	88	70-130
Endrin	ND	33.6	40	84	70-150
4,4'-DDT	ND	34.5	40	86	30-130

ND: Not Detected (Below RL).

Client:	Phase One, Inc.	Lab Job No.:	P12D014A
Project:	7230	Date Sampled:	4/5/2012
Project Site:	7230	Date Received:	4/6/2012
Matrix:	Soil	Date Digested:	4/7/2012
Digestion Method:	3050B	Date Analyzed:	4/7/2012
Batch No.:	0407-MT-S	Date Reported:	4/11/2012

EPA 6010B (Arsenic)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Arsenic (As)	
	Reporting Limit	1	
7230-GP-30d-S	P12D014A-17	1.38	

EPA 6010B (Arsenic) Batch QA/QC Report

Client: Phase One, Inc. Lab Job No.: P12D014A Project: 7230 Lab Sample ID: LCS Soil Date Analyzed: 4/7/2012 Matrix: 0407-MT-S Date Reported: 4/11/2012 Batch No .:

MB/LCS/LCSD Report

Unit: mg/kg

\$ 6 6										
	EPA	Method	Spike	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec.
Element	Method	Blank	Conc.			%Rec.	%Rec.		Accept	Accept
									Limit	Limit
Arsenic (As)	6010B	ND	10	9.9	9.6	99	96	3	≤20	80-120

ND: Not Detected (at the specified limit).

Environmental Laboratories, Inc.

PP=Pure Product

AR=Air

WW=Waste Water

SD=Solid Waste

1640B S. Grove Ave., Ontario, CA 91761

Tel/ Fax: 909-923-8628 CHAIN OF CUSTODY Lab Job Number Pi2 Pol

V=VOA Vial

P=Plastic Bottle

Client Name	P	OI			Sample Conditi	e Receipt				*	Δ	lna	lys	es l	Req	ues	stec	k		Turn Around Time Requested
	Laguna Phone # 7/4-6	569-80		oled By	X	Chilled ntact	s & Oxygenates)	& Oxygenates)	(& MTBE)	5B (Gasoline)	5B (Diesel)	(Organochlorine Pesticides)))	on Chain)	us)	/	(AR)		Rush 8 12 24 48 Hours Normal
Project 7230 No./ Name	Project Site	723				Sample Seal	B (VOC	В(ВТЕХ	В (ВТЕХ	/ 801	5M / 801	52	2 (PCBs)	1 (TRPH)	M (Carb	0s (Metals)	Metals	ONIC		/
Sample ID	Sample ID	Sample C Date	Time	Matrix Type	Preserve	No., type* & size of container	82	EPA8260B(BT	EPA8021B	EPA8015M	EPA8015	EPA8081A	EPA 8082	EPA418.1	EPA8015M (Carbon	EPA 7000s	CAM 17	Arsy		Remarks
30a-S	P12D0144-10	4/5/12	AU	Soil	NO	PT/1						X			1.0					
30a-Z	-11	19						,				1				V-10-1			ic .	
306-5	-12																			10
30b-2 30L-7	-13												-						-2	Resauge
300-5	-15																			
30c-2	16												L				Y I Damed I			
30d-5	-17		D															X		
30d-2	1 -18	1000	p. Received 1-31-20	4	V	V						V								
	3						THE PAS											annu de		
				2.1									oran Variation							
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Relinquished By	POI	Date 1/6 Date	Time	Rec	eived By	Company		4	ate u ate	P	Tim 13 Tim	0	No			The state of the s				after results are ents are made.

HN=HNO3

HS=H2SO4

G=Glass Container

ST= Steel Tube

Mr. Eric K. 4/27/2012

Phase One, Inc. 23282 Mill Creek Dr., Suite 160 Laguna Hills, CA 92653

 Project:
 7230

 Project Site:
 7230

 Sample Date:
 4/5/2012

 Lab Job No.:
 P12D014B

Dear Mr. Eric K.:

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 4/6/2012 and analyzed by the following EPA methods:

EPA 8081A(Chlorinated Pesticide) EPA 6010B(Arsenic)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909) 923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.

Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.

Tel: (909)923-8628 (562)413-8343 *Fax:* (909)923-8628

Client:	Phase One, Inc.	Lab Job No.:	P12D014B
Project:	7230	Date Sampled:	4/5/2012
Project Site:	7230	Date Received:	4/6/2012
Matrix:	Soil	Date Extracted:	4/26/2012
Digestion Method:	3550B	Date Analyzed:	4/27/2012
Batch No.:	0427-PES-S	Date Reported:	4/27/2012

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

Dilution Factor		1	με/κε (11 Β)	
Lab Sample I.D.		P12D014-12*		
Client Sample I.D.		7230-GP-30b-S		
Compound	RL			
α-ВНС	5	ND		
у-ВНС	5	ND		
Heptachlor	5	ND		
Aldrin	5	ND		
β-ВНС	5	ND		
δ-ВНС	5	ND		
Heptachlor Epoxide	5	ND		
Endosulfan I	5	ND		
γ-Chlordane	5	ND		
α-Chlordane	5	5.02		
4,4'-DDE	5	16.5		
Dieldrin	5	ND		
Endrin	5	ND		
Endosulfan II	5	ND		
4,4'-DDD	5	5.5		
4,4'-DDT	5	13.3		
Endrin Aldehyde	5	ND		
Endosulfan Sulfate	5	ND		
Methoxychlor	20	ND		
Endrin Ketone	10	ND		
Technical Chlordane	25	ND		
Toxaphene	100	ND		

ND: Not Detected (Below DF x RL).

RL: Reporting Limit

^{*:} The sub-sample for this analysis was taken from both end of the sample container.

Client:	Phase One, Inc.	Lab Job No.:	P12D014B
Project:	7230	Date Sampled:	4/5/2012
Project Site:	7230	Date Received:	4/6/2012
Matrix:	Soil	Date Extracted:	4/23/2012
Digestion Method:	3550B	Date Analyzed:	4/24/2012
Batch No.:	0424-PES-S	Date Reported:	4/27/2012

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

Dilution Factor		1		
Lab Sample I.D.		P12D014-12**		
Client Sample I.D.		7230-GP-30b-S		
Compound	RL			
α-ВНС	5	ND		
ү-ВНС	5	ND		
Heptachlor	5	ND		
Aldrin	5	ND		
β-ВНС	5	ND		
δ-ВНС	5	ND		
Heptachlor Epoxide	5	ND		
Endosulfan I	5	ND		
γ-Chlordane	5	ND		
α-Chlordane	5	ND		
4,4'-DDE	5	ND		
Dieldrin	5	ND		
Endrin	5	ND		
Endosulfan II	5	ND		
4,4'-DDD	5	ND		
4,4'-DDT	5	ND		
Endrin Aldehyde	5	ND		
Endosulfan Sulfate	5	ND		
Methoxychlor	20	ND		
Endrin Ketone	10	ND		
Technical Chlordane	25	ND		
Toxaphene	100	ND		

ND: Not Detected (Below DF x RL).

RL: Reporting Limit

^{**:} The sub-sample for this analysis was taken from one end of the sample container.

Client:	Phase One, Inc.	Lab Job No.:	P12D014B
Project:	7230	Date Sampled:	4/5/2012
Project Site:	7230	Date Received:	4/6/2012
Matrix:	Soil	Date Extracted:	4/23/2012
Digestion Method:	3550B	Date Analyzed:	4/24/2012
Batch No.:	0424-PES-S	Date Reported:	4/27/2012

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

D1 (1 F)		Reporting Onit. μg/kg (
Dilution Factor		1	
Lab Sample I.D.		P12D012-5,6,7,8	
Client Sample I.D.		7230-GP-5,6,7,8-S Comp.	
Compound	RL		
α-ВНС	5	ND	
ү-ВНС	5	ND	
Heptachlor	5	ND	
Aldrin	5	ND	
β-ВНС	5	ND	
δ-ВНС	5	ND	
Heptachlor Epoxide	5	ND	
Endosulfan I	5	ND	
γ-Chlordane	5	12.6	
α-Chlordane	5	22.3	
4,4'-DDE	5	5.1	
Dieldrin	5	7.13	
Endrin	5	ND	
Endosulfan II	5	ND	
4,4'-DDD	5	10.8	
4,4'-DDT	5	5.2	
Endrin Aldehyde	5	ND	
Endosulfan Sulfate	5	ND	
Methoxychlor	20	ND	
Endrin Ketone	10	ND	
Technical Chlordane	25	ND	
Toxaphene	100	ND	

ND: Not Detected (Below DF x RL).

RL: Reporting Limit

Tel: (909)923-8628 (562)413-8343 Fax: (909)923-8628

EPA Method 8081A Batch QA/QC Report

Client: Phase One, Inc. Lab Job No.: P12D014B Project: 7230 Lab Sample ID: LCS Date Analyzed: Matrix: Soil 4/24/2012 0424-PES-S Date Reported Batch No .: 4/27/2012

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method	Spike	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec.
	Blank	Conc.			%Rec.	%Rec.		Accept	Accept
								Limit	Limit
ү-ВНС	ND	20	18.5	19.5	93	98	5	≤30	70-130
Heptachlor	ND	20	19.6	20.2	98	101	3	≤30	50-150
Aldrin	ND	20	20.1	17.5	101	88	14	≤30	50-140
Dieldrin	ND	40	34.5	38.5	86	96	11	≤30	70-130
Endrin	ND	40	37.2	37.5	93	94	1	≤30	70-150
4,4'-DDT	ND	40	38.2	36.5	96	91	5	≤30	20-160

ND: Not Detected (Below RL).

Client:	Phase One, Inc.	Lab Job No.:	P12D014B
Project:	7230	Date Sampled:	4/5/2012
Project Site:	7230	Date Received:	4/6/2012
Matrix:	Soil	Date Digested:	4/24/2012
Digestion Method:	3050B	Date Analyzed:	4/24/2012
Batch No.:	0424-MT-S	Date Reported:	4/27/2012

EPA 6010B (Arsenic)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Arsenic (As)	
	Reporting Limit	1	
7230-GP-25-2	P12D013-25	22.8	
7230-GP-17-S	P12D012-17	4.8	
7230-GP-27-S	P12D012-27	2.59	

EPA 6010B (Arsenic) Batch QA/QC Report

Client: Phase One, Inc. Lab Job No.: P12D014B Project: 7230 Lab Sample ID: LCS Soil Date Analyzed: Matrix: 4/24/2012 0424-MT-S Date Reported: Batch No .: 4/27/2012

MB/LCS/LCSD Report

Unit: mg/kg

	EPA	Method	Spike	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec.
Element	Method	Blank	Conc.			%Rec.	%Rec.		Accept	Accept
									Limit	Limit
Arsenic (As)	6010B	ND	10	8.5	9.1	85	91	7	≤20	80-120

ND: Not Detected (at the specified limit).

abcelab@verizon,net

P120014B

From:

"eric kieselbach" <erick@phasei.com>

To:

"abcelab@verizon,net" <abcelab@verizon.net>

Monday, April 23, 2012 9:34 AM

Sent: RE: 7230, sampled on 4/5/2012 Subject:

Jenny & Ken,

Please run as duplicates on the below sample #'s.

I know that the hold time might be out on the EPA 8081's. Its OK

Rerun the sample #'s below for EPA 8081:

P12D014A-12 7230-GP-30b-S

P12D012-5,6,7,8

7230-GP

5,6,7,8-S Comp.

Rerun the three below samples for Arsenic. Received 1-31-2014

7230-GP-25-2	P12D013-25

P12D012-17 7230-GP-17-S

7230-GP-27-S	P12D012-27
--------------	------------

Thanks

Eric Kieselbach

President

Phase One Inc. & ERS

800-524-8877 Cell 949-632-6116

erick@phasei.com

From: abcelab@verizon,net [mailto:abcelab@verizon.net]

Sent: Wednesday, April 11, 2012 4:11 PM

To: Phase I Kieselbach

Cc: Phase I Lance

Subject: 7230, GP-30, sampled on 4/5/2012

APPENDIX D

PHOTOGRAPHS



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5