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Site Material Sampling Report

Mojave Solar Project Harper Dry Lake San Bernardino County, California

Prepared for: Mojave Solar LLC

Introduction

Mojave Solar, LLC, a Delaware limited liability company (herein "Mojave Solar"), is proposing to construct, own and operate the Mojave Solar Project (herein "Project"). The Project is a concentrating solar electric generating facility proposed on an approximately 1,765-acre site near Harper Dry Lake in San Bernardino County, California.

Sampling Requirements

As part of the "Application for Certification" process for the Project and at the request of the California Energy Commission (CEC), Mojave Solar performed a site sampling analysis of large, fallow agricultural fields and the existing, abandoned structures on the project site. These structures included various wood and concrete buildings, previous underground tank locations, and existing and abandoned well sites.

The sampling and testing was outlined in the MSP Soil Sampling Plan approved by the CEC prior to the commencement of onsite sampling procedures.

Sampling Procedures

Field sampling was performed on March 1st and 2nd, 2010. Sampling was performed under the direction of state certified personnel at the site. Field sampling, testing, and observations were performed and material samples were obtained for further laboratory analysis. Soil samples for pesticide and herbicide analysis were collected in the locations identified on the plan map and composited for analysis.

These samples were transported from the field to the certified lab location following standard sampling and testing procedures. Chain of Custody information for these samples is included with this report. Results of the field testing and observations are detailed on the "Field Asbestos and Lead Sampling Notes" included in this report.

Laboratory Sampling Results

The results of the laboratory testing of field samples from the site are attached to this report. Site maps of the existing structures and testing locations are included for reference to the laboratory data sheets. The assessor parcel numbers (APNs) for the testing locations are outlined on the original sampling plan proposal.

Conclusions and Recommendations

The results of the field and laboratory analysis of the site samples are included in this report. While many samples came back as non-detectable, there were samples indicating the presence of asbestos containing materials (ACM), lead based paint (LBP), and hydrocarbon residue from previous underground fuel storage tanks located on the site.

Sampling for pesticides and herbicides in the fallow agricultural areas indicated nondetectable results for pesticide and herbicide residue. Previous conversations with the county agricultural commissioner had indicated that the county did not expect any residues to be found due to the short half-life of normal chemicals used for this purpose. A pesticide sampling analysis provided by the sampling and testing agency is included in this report.

As a follow-up, the following work should be completed prior to any demolition activities occurring on the site:

- All asbestos containing material ("ACM") has to be abated. Under Federal law, ACM is defined as material comprised of greater than 1% asbestos if it is or has the potential to become friable. Friable is defined as material that can be crumbled by hand pressure and releasing asbestos fibers, or asbestos fiber release is from mechanical means (i.e., "hard" demo).
- The lead-based paint ("LBP") has to be properly managed. This can be done as a simple removal (e.g., door and door/window frames), or more detailed (i.e., exterior paint on former General Store). Upon demolition of this building some LBP will be released to the ground. The soil should be sampled to ensure it does not become impacted above regulatory action limits. This type of removal would be less expensive than LBP removal prior to demolition.
- The general store's former fueling system should be investigated, as well as the former aviation fuel ("AV") tank on the northern side of the building. Mitigation procedures should be interfaced with the appropriate governing agencies having jurisdiction over the project site.
- The hazardous materials/wastes located in the General Store's basement and by Building 5 need to be properly managed and disposed/recycled.

An abatement and remediation plan should be developed and instituted to properly dispose of the listed materials at the site. This plan should be prepared and instituted to complete this work in an orderly fashion and prior to the commencement of demolition and construction activities in the affected areas.

MOJAVE SOLAR PROJECT SITE SAMPLING PLAN

Surface Soil Sampling

The anticipated sample locations are shown on the attached Soil Sampling Plan and outlined in the attached soil sampling table. The sample locations were selected to give reasonable spatial coverage of the project site area. If present, soil contamination in the previously disturbed fallow agricultural areas is anticipated to be relatively shallow. Consequently, the focus of the proposed investigation for these areas is shallow soil.

Soil samples for the fallow agriculture areas (labeled 1 through 12) will be collected from each quarter of the quarter sections at a depth of 0 to 8 inches. These surface samples will be collected using a trowel or appropriate hand equipment. The fallow agriculture samples will be consolidated and submitted for laboratory analysis of possible pesticide and/or herbicide residue per USEPA 8081A & USEPA 8151A

Soil samples for the Phase I areas (labeled A through J) will be collected from the locations identified in the Phase I Environmental Site Assessment as showing evidence of surface staining from previous commercial and agricultural uses and locations of existing structures.

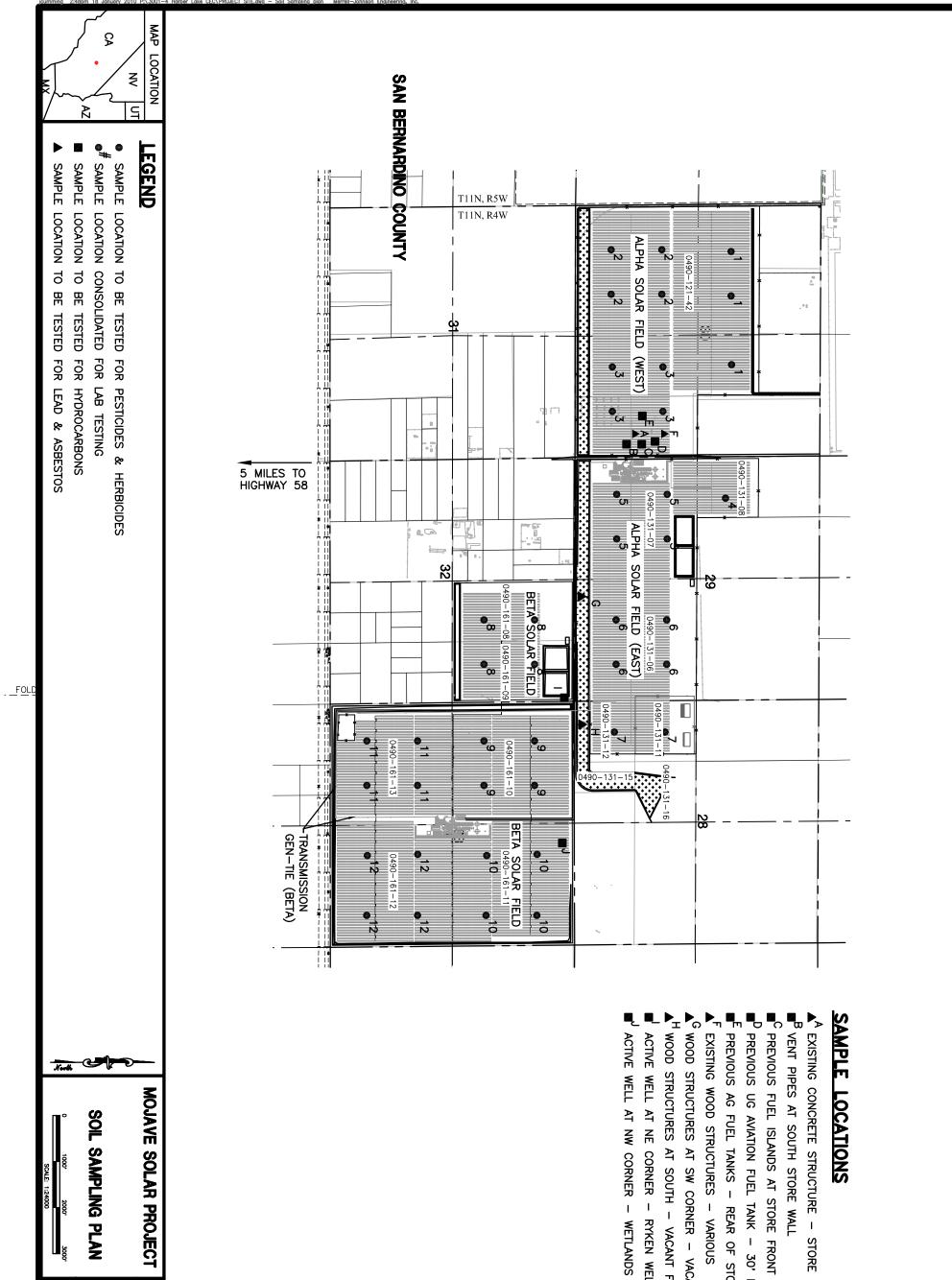
Two soil samples will be collected from each location showing evidence of surface staining, a surface sample at 0 to 4 inches and a deeper sample at 20 to 24 inches. The surface sample will be collected using a trowel or appropriate hand equipment. The deeper sample will be collected using a hand auger or other appropriate equipment as necessary. These samples will be submitted for laboratory analysis of possible hydrocarbon residue per USEPA 8015M. Material samples will be collected in the locations of existing structures to test for evidence of lead and asbestos per EPA 6020 & USEPA 600/M4-82-020.

Soil and Material Analysis

The proposed analytical testing parameters and methods for soil and material samples will be performed by an independent, approved laboratory. Soil and material samples will be submitted for a combination of laboratory analysis. Analysis will be determined following consultation with and at the direction of the County of San Bernardino Environmental Health Department and the San Bernardino County Department of Agriculture.

	Mojave Solar Project – Soil Sampling Plan						
APN	PHASE I INFORMATION	TEST(S)					
	Previous Cattle Farming	(1-3) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A				
	Existing Concrete Structure – Store	(A) – Lead / Asbestos	EPA 6020 / USEPA 600/M4-82-020				
	Vent Pipes @ South Store Wall	(B) – Hydrocarbons	USEPA 8015M				
0490-121-42	Previous Fuel Islands @ Store Front	(C) – Hydrocarbons	USEPA 8015M				
	Previous UG Aviation Fuel Tank – 30' North of Store	(D) – Hydrocarbons	USEPA 8015M				
	Previous AG Fuel Tanks – Rear of Store	(E) – Hydrocarbons	USEPA 8015M				
	Existing Wood Structures – Various	(F) – Lead / Asbestos	EPA 6020 / USEPA 600/M4-82-020				
0490-131-06	Wood Structures @ SW Corner – Vacant Homes	(G) – Lead / Asbestos	EPA 6020 / USEPA 600/M4-82-020				
0-10100	Vacant – Fallow Agriculture	(6) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A				
0490-131-07	Vacant – Fallow Agriculture	(5) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A				
0490-131-08	Vacant – Fallow Agriculture	(4) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A				
0490-131-11	Vacant – Fallow Agriculture	(7) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A				
0490-131-12	Wood Structures @ South – Vacant	(H) – Lead / Asbestos	EPA 6020 / USEPA 600/M4-82-020				
	Farm Buildings	(7) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A				
0490-131-13	Not Part of Final Project Site	N/A					
0490-131-15	Existing Desert	No Sampling	Planned				
0490-131-16	Existing Desert	No Sampling	Planned				
0490-161-08	Active Agriculture	(8) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A				
0.400 1.61 00	Active Agriculture	(8) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A				
0490-161-09	Active Well @ NE Corner – Ryken Well	(I) – Hydrocarbons	USEPA 8015M				
0490-161-10	Vacant — Fallow Agriculture	(9) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A				
0400 464 44	Vacant – Fallow Agriculture	(10) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A				
0490-161-11	Active Well @ NW Corner – Wetlands Well	(J) – Hydrocarbons	USEPA 8015M				

0490-161-12	Vacant — Fallow Agriculture	(12) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A
0490-161-13	Vacant – Fallow Agriculture	(11) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A
0490-171-09	Not Part of Final Project Site	N/A	



FOLD

	WOOD STRUCTURES AT SW CORNE ACTIVE WELL AT NE CORNER - F ACTIVE WELL AT NW CORNER - V ACTIVE WELL AT NW CORNER - V	OUS UG AVIATION FUEL TANK - OUS AG FUEL TANKS - REAR OF NG WOOD STRUCTURES - VARIOL
MOJAVE SOLAR LLC Merrell- Johnson Fingineering, Inc. PROJECT: DATE: 01/18/10	VACANT FARM BUILDINGS YYKEN WELL WETLANDS WELL	· , , , , , , , , , , , , , , , , , , ,

RESULTS OF SOIL SAMPLING

SAMPLING LOCATIONS







SAMPLING RESULTS

FIELD ASBESTOS & LEAD SAMPLING NOTES

General Store: 65 asbestos samples

Building	Asbestos ^[1]		Lead - Based Paint ^[2]
1	North exterior roof parapet roof field Mezzanine green 9" square vinyl floor tile (VF	Exterior FT)	All walls Door 2 ^[6] South wall, southeastern room
	Ground level and mezzanine brown 9" squar Ground level brown 9" square VFT	e VFT Interior	interior paints Southern room
	West from B1; pipe coating West from B1; broken 9" VFT in soil Ground level southern room, ceiling insulatio Basement; 41 rolls of 6" x 100' tarpaper flash SW exterior "closet"; pipe insulation Western wall exterior window putty Southern room green 9" VFT		Main floor restrooms, ceramic tiles Room 5, southern window Hallway, just wood sills
2	Drywall joint compound		Northern room, eastern window Northern room, eastern door frame
3	Exterior pipe wrap		
4	Roof mastic Baseboard 9" VFT		Interior west wall (wood)
5	Exterior broken Transite pipe pieces Window putty		
6	Exterior pipe wrap Window putty North exterior wall Transite pipe		North wall North wall, windows 6 - 10 ^[3] South wall South wall, window 7 ^[3] South wall, doors 2 - 4 ^[4] Room 5, door ^[5]
7	Roof mastic Eastern exterior tan VFT in debris pile		West wall North wall West wall, northern window
		Southern wall	Room 1, 2, 3, 4, door jamb ^[4, 5] Room 2, 3, 4, 6, 7, window ^[3, 5]
		Northern wall	Room 7, 6, 5, 4, 3, 1, window Room 7, 5, 3, bath window Room 1, interior closet
8	None		Eastern Door All exterior walls Southern window Interior eastern wall cabinets

9 None

10 Drywall joint compound

NOTES

- 1 Fuel leak at former fuel dispenser island; entire piping should be investigated per County Fire regulations
- 1 Fuel leak at former northern AV gas tank
- 1 Transite piece exterior southwest corner
- 1 Transite pieces exterior southwest corner
- 1 Drum storage in basement
- 1 West from building; two stage clarifier
- 1 Potential for lead solder in 4" cast iron pipe joints
- 1 Elevator brake shoes likely asbestos
- All Fluorescent light ballasts need to be inspected for PCBs
- 5 South exterior waste grease and oil drums
- 6 Herbicide bag inside building
- 8 West from building; potential former hydraulic lifts with hydrocarbon building-up
- HB5 Potential former Mechanic's Pit in garage
- [1] = analyzed to contain greater than 1% asbestos that is or may become friable during demolition
- [2] = greater than 1.0 mg/cm² as measured with an XRF
- [3] = Wall windows numbered sequentially from west to east
- [4] = Door and/or door jambs numbered sequentially from west to east
- [5] = Rooms numbered sequentially from west to east
- [6] = Western walls doors numbered sequentially from north to south
- [7] = General store's mezzanine rooms numbered sequentially from north to south

PRIMARY SAMPLING RESULTS



Mr. Glenn Stillman Alaska Petroleum Environmental Engineering P.O. Box 5365 Garden Grove, CA 92846-0365

Project:40100Project Site:Mojave Solar LLCSample Date:03-01-2010Lab Job No.:AD003012

Dear Mr. Stillman:

Enclosed please find the analytical report for the sample(s) received by Alpha Scientific Corporation on 03-04-2010 and analyzed by the following EPA methods:

EPA 8015M (Total Petroleum Hydrocarbons) EPA 8260B (BTEX & Oxygenates by GC/MS) EPA 6010B/7471A for CAM Metals EPA 8081A (Organochlorine Pesticides) EPA 8082 (PCBs) EPA 8151A (Chlorinated Herbicides)

EPA 8151A analyses were subcontracted to ABC Environmental Laboratories (ELAP # 2584).

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.

Alpha Scientific Corporation is a CA DHS certified laboratory (Certificate Number 2633). Thank you for giving us the opportunity to serve you. Please feel free to call me at (562) 809-8880 if our laboratory can be of further service to you.

Sincerely,

QW-6

Roger Wang, Ph. D. Laboratory Director

Enclosures

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



Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD003012
Project:	40100		
Project Site:	Mojave Solar LLC	Date Sampled:	03-01-2010
Matrix:	Soil	Date Received:	03-04-2010
Batch No. for	TPH-g: BMC04-GS1	Date Analyzed:	03-04-2010
Batch No. for	TPH-d: BC04-DS1	Date Analyzed:	03-04-2010
		Date Reported:	03-10-2010

EPA 8015M (Total Petroleum Hydrocarbons)

Reporting Unit: mg/kg (ppm)

		Gasoline Range (C4-C12)*	Diesel Range (C13-C23)	Oil Range (C24-C40)
MDL		0.2	1	25
PQL		0.5	5	50
Method Blank		ND	ND	ND
B1-1	AD003012-1	ND	ND	ND
B1-2	AD003012-2	ND	ND	ND
B1-3	AD003012-3	1,310	3,510	124
B2-1	AD003012-4	NA	ND	ND
B2-2	AD003012-5	NA	ND	ND
B3-1	AD003012-6	NA	ND	ND
B3-2	AD003012-7	NA	ND	ND
B4-1	AD003012-8	NA	52.7	440
B4-2	AD003012-9	NA	ND	ND
B5-1	AD003012-10	NA	8,040	17,700
B5-2	AD003012-11	NA	27.0	136
BLD9	AD003012-14	NA	3,620	25,600

* Gasoline Range TPH result is obtained from purge and trap analysis.

MDL: Method Detection Limit;

PQL: Practical Quantitation Limit.

ND: Not Detected (at the specified limit).

J: Trace value.

NA: Not Analyzed



Client:	Alaska Petroleum Environmental Engineering 40100	Lab Job No.:	AD003012
Project: Project Site:	Mojave Solar LLC	Date Sampled:	03-01-2010
Matrix:	Soil	Date Received:	03-04-2010
Batch No:	0304-VOBS1	Date Analyzed:	03-04-2010

EPA 8260B (BTEX & Oxygenates by GC/MS) Reporting Units: mg/kg (ppm)

			must mg/kg (p			
Lab ID	Method	AD003012-3			MDL	PQL
Sample ID	Blank	B1-3				
DF	1	100				
Benzene	ND	ND			0.001	0.002
Toluene	ND	ND			0.001	0.002
Ethylbenzene	ND	3.58			0.001	0.002
Total Xylenes	ND	34.8*			0.002	0.004
Ethanol	ND	ND			0.50	1.00
MTBE	ND	ND			0.002	0.005
ETBE	ND	ND			0.002	0.005
DIPE	ND	ND			0.002	0.005
TAME	ND	ND			0.002	0.005
TBA	ND	ND			0.002	0.005

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; DF=Dilution Factor;

ND=Not Detected (below DF \times MDL); * Obtained from higher dilution.

J=Trace value: result is lower than $DF \times PQL$ but higher than $DF \times MDL$.



Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD003012
Project:	40100		
Project Site:	Mojave Solar LLC	Date Sampled:	03-01-2010
Matrix:	Soil	Date Received:	03-04-2010
Digestion Met	hod: EPA 3050B	Date Digested:	03-04-2010
Batch No. for	6010B: 0305-MS1	Date Analyzed:	03-05-2010
Batch No. for	Hg: 0305-HgS1	Date Analyzed:	03-05-2010
		Date Reported:	03-10-2010

EPA 6010B/7471A for Cam Metals (TTLC)

Element	EPA	Method Blank	AD003012- 13	AD003012- 14		PQL
	Method		Slag	BLD9		
Antimony (Sb)	6010B	ND	ND	ND		2
Arsenic (As)	6010B	ND	ND	2.2		0.5
Barium (Ba)	6010B	ND	74.2	32.1		2
Beryllium (Be)	6010B	ND	ND	ND		2
Cadmium (Cd)	6010B	ND	ND	ND		2
Chromium (Cr)	6010B	ND	13.1	7.0		2
Cobalt (Co)	6010B	ND	13.8	ND		2
Copper (Cu)	6010B	ND	15.7	15.8		2
Lead (Pb)	6010B	ND	5.8	45.9		2
Mercury (Hg)	7471A	ND	ND	ND		0.05
Molybdenum (Mo)	6010B	ND	ND	2.0		2
Nickel (Ni)	6010B	ND	25.9	5.3		2
Selenium (Se)	6010B	ND	ND	ND		0.5
Silver (Ag)	6010B	ND	ND	40.2		2
Thallium (Tl)	6010B	ND	ND	ND		2
Vanadium (V)	6010B	ND	127	21.4		2
Zinc (Zn)	6010B	ND	52.3	123		1

Reporting Units: mg/kg (ppm)

PQL: Practical Quantitation Limit.



Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD003012
Project: 40100			
Project Site:	Mojave Solar LLC	Date Sampled:	03-01-2010
Matrix:	Soil	Date Received:	03-04-2010
Prep. Method:	EPA 3550B	Date Prepared:	03-04-2010
Batch No.	CC05-PS1	Date Analyzed:	03-05-2010
		Date Reported:	03-10-2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (ppb)

	LAB SAN	IPLE I.D.	MB	AD003012-12		
CL	CLIENT SAMPLE I.D.			AG-1		
DILUTION FACTOR						
COMPOUND	MDL	PQL				
Alpha-BHC	3	5	ND	ND		
Gamma-BHC (Lindane)	3	5	ND	ND		
Heptachlor	3	5	ND	ND		
Aldrin	3	5	ND	ND		
Betta-BHC	3	5	ND	ND		
Delta-BHC	3	5	ND	ND		
Heptachlor Epoxide	3	5	ND	ND		
Endosulfan I	3	5	ND	ND		
4,4'-DDE	3	5	ND	ND		
Dieldrin	3	5	ND	ND		
Endrin	3	5	ND	ND		
4,4'-DDD	3	5	ND	ND		
Endosulfan II	3	5	ND	ND		
4,4'-DDT	3	5	ND	ND		
Endrin Aldehyde	3	5	ND	ND		
Endosulfan Sulfate	3	5	ND	ND		
Methoxychlor	3	5	ND	ND		
Chlordane	15	25	ND	ND		
Toxaphene	60	100	ND	ND		

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;

ND=Not Detected (below $DF \times MDL$).

J=Result is beween DF \times MDL and DF \times PQL; * Obtained from a higher dilution analysis.



	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD003012
Project:	40100		
Project Site:	Mojave Solar LLC	Date Sampled:	03-01-2010
Matrix:	Soil	Date Received:	03-04-2010
Extraction Methe	od: EPA 3550B	Date Extracted:	03-04-2010
Batch No.	CC08-PS1	Date Analyzed:	03-08-2010

EPA 8082 (PCB's) Reporting Unit: µg/kg (ppb)

Sample ID	Lab ID	DF	PCB- 1016	PCB- 1221	PCB- 1232	PCB- 1242	PCB- 1248	PCB- 1254	PCB- 1260
Method Detect. Limit (MDL)			50	100	50	50	50	50	50
Method Blank		1	ND						
BLD9	AD003012-14	1	ND						

MDL=Method Detection Limit; MB=Method Blank; ND=Not Detected (below DF × MDL)



TPH-Gasoline Batch QA/QC Report

Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD003012
Project:	40100		
Matrix:	Soil	Lab Sample ID:	Q003011-1
Batch No:	BMC04-GS1	Date Analyzed:	03-04-2010

I. MS/MSD Report Unit: ppb

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-g	ND	1,000	1,180	1,250	118.0	125.0	5.8	30	70-130

II. LCS Result Unit: ppb

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
TPH-g	842	1,000	84.2	80-120



EPA 8015M (TPH) Batch QA/QC Report

Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD003012
Project:	40100		
Matrix:	Soil	Lab Sample ID:	AD003012-1
Batch No. for 7	ГРН-d: BC04-DS1	Date Analyzed:	03-04-2010

I. MS/MSD Report Unit: ppm

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-D	ND	200	218	219	109.0	109.5	0.5	30	70-130

II. LCS Result Unit: ppm

Analyte	LCS Report Value	True Value	Rec.%	%Rec Accept. Limit
TPH-D	217	200	108.5	80-120



EPA 8260B Batch QA/QC Report

Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD003012
Project:	40100		
Matrix:	Soil	Lab Sample ID:	Q003011-1
Batch No:	0304-VOBS1	Date Analyzed:	03-04-2010

I. MS/MSD Report Unit: ppb

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1,1- Dichloroethene	ND	20	22.6	22.6	113.0	113.0	0	30	70-130
Benzene	ND	20	19.9	21.2	99.5	106.0	6.3	30	70-130
Trichloro- ethene	ND	20	21.7	19.4	108.5	97.0	11.2	30	70-130
Toluene	ND	20	21.8	17.6	109.0	88.0	21.3	30	70-130
Chlorobenzene	ND	20	17.8	19.4	89.0	97.0	8.6	30	70-130

II. LCS Result Unit: ppb

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	20.9	20.0	104.5	80-120
Benzene	23.2	20.0	116.0	80-120
Trichloro-ethene	18.6	20.0	93.0	80-120
Toluene	23.0	20.0	115.0	80-120
Chlorobenzene	22.2	20.0	111.0	80-120



EPA 6010B/7471A for Cam Metals (TTLC) Batch QA/QC Report

Client: A	laska Petroleum Environmental Engineering	Lab Job No.:	AD003012
Project: 4	0100		
Matrix: S	oil	Lab Sample ID:	LCS
Batch No. for 601	0B: 0305-MS1	Date Analyzed:	03-05-2010
Batch No. for Hg	0305-HgS1	Date Analyzed:	03-05-2010

LCS/LCSD Report

Analyte	EPA Method	MB Conc.	LCS %Rec.	LCSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Antimony (Sb)	6010B	ND	100.6	96.2	4.5	20	80-120
Arsenic (As)	6010B	ND	102.1	100.9	1.2	20	80-120
Barium (Ba)	6010B	ND	100.3	101.6	1.3	20	80-120
Beryllium (Be)	6010B	ND	98.4	98.7	0.3	20	80-120
Cadmium (Cd)	6010B	ND	96.9	98.3	1.4	20	80-120
Chromium (Cr)	6010B	ND	102.3	102.2	0.1	20	80-120
Cobalt (Co)	6010B	ND	98.4	100.5	2.1	20	80-120
Copper (Cu)	6010B	ND	102.3	100.7	1.6	20	80-120
Lead (Pb)	6010B	ND	98.2	98.2	0.0	20	80-120
Mercury (Hg)	7471A	ND	104.0	99.4	4.5	20	80-120
Molybdenum (Mo)	6010B	ND	97.8	97.1	0.7	20	80-120
Nickel (Ni)	6010B	ND	97.4	99.7	2.3	20	80-120
Selenium (Se)	6010B	ND	101.4	96.9	4.5	20	80-120
Silver (Ag)	6010B	ND	117.6	117.7	0.1	20	80-120
Thallium (Tl)	6010B	ND	98.5	107.3	8.6	20	80-120
Vanadium (V)	6010B	ND	93.5	93.2	0.3	20	80-120
Zinc (Zn)	6010B	ND	108.3	109.4	1.0	20	80-120

ND: Not Detected.



EPA 8081A (Pesticides) Batch QA/QC Report

Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD003012
Project:	40100		
Matrix:	Soil	Lab Sample ID:	AD003012-12
Batch No.	CC05-PS1	Date Analyzed:	03-05-2010

I. MS/MSD Report

				Ur	nit: ppb				
Analyte	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Gamma-BHC	ND	20	18.3	16.2	91.5	81.0	12.2	30	46-127
Heptachlor	ND	20	18.5	16.7	92.5	83.5	10.2	30	31-134
Aldrin	ND	20	20.3	18.8	101.5	94.0	7.7	30	36-132
Dieldrin	ND	20	19.5	19.6	97.5	98.0	0.5	30	21-134
Endrin	ND	20	19.2	16.6	96.0	83.0	14.5	30	42-139
4,4'-DDT	ND	20	18.3	16.4	91.5	82.0	11.0	30	21-134

II. LCS Result Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit
Gamma-BHC	16.0	20	80.0	80-120
Heptachlor	16.2	20	81.0	80-120
Aldrin	18.4	20	92.0	80-120
Dieldrin	18.9	20	94.5	80-120
Endrin	16.0	20	80.0	80-120
4,4'-DDT	16.0	20	80.0	80-120

ND: Not Detected.



EPA 8082 Batch QA/QC Report

Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD003012
Project:	40100		
Matrix:	Soil	Lab Sample ID:	LCS
Batch No.	CC08-PS1	Date Analyzed:	03-08-2010

LCS/LCSD Report

Unit: ppb

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1016	ND	500	483	513	96.6	102.6	6.0	30	46-127
1260	ND	500	467	495	93.4	99.0	5.8	30	31-134

ASBESTOS SAMPLING RESULTS



AmeriSci Los Angeles

24416 SOUTH MAIN STREET • SUITE 308 CARSON, CA 90745 TEL: (310) 834-4868 • FAX: (310) 834-4772

March 11, 2010

Alaska Petroleum Engineering Attn: Karen Ernst P.O. Box 5365 Garden Grove, CA 92846-0365

RECEIVED

MAR 1 8 2010

RE: Alaska Petroleum Engineering Job Number 910031148 P.O. #40100 40100; Mojave Solar LLC

A.P.E.E.

Dear Karen Ernst:

Enclosed are the results for polarized light microscopy analysis (PLM) of the following Alaska Petroleum Engineering samples received at AmeriSci on Monday, March 08, 2010, for a 3 day turnaround:

Sample ID B1NR1 through B10WP

The 102 samples contained in Ziplock Bags were shipped to AmeriSci via Federal Express 8559 6661 1710. These samples were prepared and analyzed according to the EPA Interim Method (EPA 600/M4-82-020 per 40 CFR 763, subpt F, App. A). The samples were evaluated for homogeneity by low power stereomicroscopy. Asbestos fibers were identified by PLM and dispersion staining through the determination of the required optical properties including: morphology, color, pleochroism, refractive indices, birefringence, extinction and sign of elongation. The required analytical information, analysis results, analyst signature and laboratory identification is contained in the Analyst's Report.

This report relates ONLY to the sample analysis expressed as percent asbestos. The CV for this analysis is expected to range from 0.3 to 1.2, depending on the quantity of analyte present. AmeriSci assumes no responsibility for customer supplied data such as "sample type", "location", or "area sampled". This report must not be used to claim product endorsement by AmeriSci, NVLAP or any agency of the U. S. Government. The National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced, except in full without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations respectively, if so identified in relevant footnotes.

AmeriSci appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

Client Services Manager

AmeriSci Los Angeles

24416 S. Main Street, Ste 308 Carson, California 90745 TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Alaska Petroleum Engineering	Date Received	03/08/10	AmeriSo	ci Jol	b #	910031148
Attn: Karen Ernst	Date Examined	03/10/10	P .O. #			
P.O. Box 5365			Page	1	of	23
	RE: 40100; Moja	ve Solar LLC				

Garden Grove, CA 92846-0365

Ameri Sci

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B1NR1 Location: I	910031148-01 North Roof Parapit, Roofing Felt	Yes	8 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, F Asbestos Types: Chrysot Other Material: Non-fibr			
	910031148-02.1 Bldg. 2 Exterior Stucco	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Green, I Asbestos Types: Other Material: Non-fibr	Heterogeneous, Non-Fibrous, Ceme ous 100 %	ntitious, Stucco-Finish Coat	
	910031148-02.2 Bldg. 2 Exterior Stucco	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Grey, He Asbestos Types: Other Material: Non-fibr	eterogeneous, Non-Fibrous, Cement ous 100 %	itious, Stucco	
B1SWI Location: f	910031148-03.1 Bldg. 2 South Wall Stucco	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Off-Whit Asbestos Types: Other Material: Non-fibr	te, Heterogeneous, Non-Fibrous, Ce ous 100 %	mentitious, Stucco-Finish Coat	
B1SWI Location: E	910031148-03.2 Bldg. 2 South Wall Stucco	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Tan, He Asbestos Types: Other Material: Non-fibr	terogeneous, Non-Fibrous, Cementit ous 100 %	ious, Stucco-Base Coat	

PLM Bulk Asbestos Report

40100; Mojave Solar LLC

Client No. / HG	A	Lab No.	Asbestos Present	Total % Asbestos
B1CMR2	Location: Bldg. 1	910031148-04L1 Center Mezzanine Roof 2 VFT	Yes	4 % (by CVES) by Paola Ducoing on 03/10/10
Asbestos Ty	ion: Green, Homog pes: Chrysotile 4.0 rial: Non-fibrous 96			
B1CMR2	Location: Bldg, 1	910031148-04L2 Center Mezzanine Roof 2 VFT	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ		eneous, Non-Fibrous, Mastic 0 %		
B1CFT	Location: Bldg. 1	910031148-05L1 Center 9" VFT	Yes	4 % (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ	ion: Brown, Homog bes: Chrysotile 4.0 rial: Non-fibrous 96			
B1CFT	Location: Bldg. 1	910031148-05L2 Center 9" VFT	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ		omogeneous, Non-Fibrous, Mastic 0 %	2	
B1CR2ACT	Location: Bldg. 1	910031148-06 Mezzanine Room 2 2'x4' ACT	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ	es:	łomogeneous, Fibrous, Ceiling Til , Non-fibrous 35 %	e	01103/10/10
	-	910031148-07.1 Center Ceiling Stucco lomogeneous, Fibrous, Drywall	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ Other Materi		Non-fibrous 85 %		

PLM Bulk Asbestos Report

40100; Mojave Solar LLC

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B1CEIL	910031148-07.2 Location: Bldg. 1 Center Ceiling Stucco	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Type	on: Light Grey, Heterogeneous, Non-Fibrous, Ce es: al: Non-fibrous 100 %	mentitious, Stucco	
B1CEIL	910031148-07L3 Location: Bldg. 1 Center Ceiling Stucco	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Type	on: Dark Brown, Homogeneous, Non-Fibrous, Ma es: al: Non-fibrous 100 %	astic	
B1SWST	910031148-08 ocation: Bldg. 1 SW Corner Roof Stucco	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Type	on: Grey, Heterogeneous, Non-Fibrous, Cementil es: al: Non-fibrous 100 %	tious, Stucco	
B1CSTR	910031148-09L1 Location: Bldg. 1 Stair Treads	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Type	n: Brown, Homogeneous, Fibrous, Tread es: al: Cellulose 20 %, Non-fibrous 80 %		
B1CSTR L	910031148-09L2 ocation: Bldg. 1 Stair Treads	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Type	n: Dark Brown, Homogeneous, Non-Fibrous, Ma s: al: Non-fibrous 100 %	stic	
	910031148-10L1 .ocation: Bldg. 1 North West Roof VFT n: Brown, Homogeneous, Non-Fibrous, Flooring	Yes	4 % (by CVES) by Paola Ducoing on 03/10/10
Asbestos Type	s: Chrysotile 4.0 % II: Non-fibrous 96 %		

PLM Bulk Asbestos Report

40100; Mojave Solar LLC

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B1NWFT Location:	910031148-10L2 Bldg. 1 North West Roof VFT	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, I Asbestos Types: Other Material: Non-fib	Homogeneous, Non-Fibrous, Mastic rous 100 %		
HB7VFT Location:	910031148-11 VFT	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Brown/ Asbestos Types: Other Material: Non-fib	Grey, Homogeneous, Non-Fibrous, Flo rous 100 %	poring	
B8WP Location:	910031148-12 Bldg. 8 Window Putty	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Beige, I Asbestos Types: Other Material: Non-fib	Homogeneous, Non-Fibrous, Window rous 100 %	Putty	
B8INCSC Location:	910031148-13 Bldg. 8 Interior Skim Coat	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Grey, H Asbestos Types: Other Material: Non-fibi	lomogeneous, Non-Fibrous, Skim Coa rous 100 %	t	
B8FT2 Location:	910031148-14L1 Bldg. 8 Beige VFT w/Black Mastic	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Beige, H Asbestos Types: Other Material: Non-fibr	Homogeneous, Non-Fibrous, Floor Tile rous 100 %		
	910031148-14L2 Bldg. 8 Beige VFT w/Black Mastic	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black/Y Asbestos Types: Other Material: Non-fibr	ellow, Heterogeneous, Non-Fibrous, M rous 100 %	lastic	

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B8FT	910031148-15L Location: Bldg. 8 Beige VFT w/Yellow Mast		NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Type	on: Beige, Homogeneous, Non-Fibrous, Floc es: al: Non-fibrous 100 %	or Tile	
B8FT	910031148-15L2 Location: Bldg. 8 Beige VFT w/Yellow Mast		NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Type	on: Yellow, Homogeneous, Non-Fibrous, Ma es: al: Non-fibrous 100 %	stic	
B8DWC	910031148-16 Location: Bldg. 8 Drywall Compound	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Type	on: White, Homogeneous, Non-Fibrous, Join es: al: Non-fibrous 100 %	it Compound	
B8INTST I	910031148-17 Location: Bldg. 8 Interior Stucco	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Type	on: Off-White, Homogèneous, Fibrous, Stucc es: al: Cellulose 10 %, Non-fibrous 90 %	0	
B8ROOF ι	910031148-18 .ocation: Bldg. 8 Roof Field	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Type	n: Black/White, Homogeneous, Fibrous, Ro es: al: Cellulose 25 %, Fibrous glass 15 %, No	-	01 00/10/10
	910031148-19 .ocation: Bldg. 8 Exterior Stucco	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Type	n: Grey, Heterogeneous, Non-Fibrous, Cem s: al: Non-fibrous 100 %	entitious, Stucco	

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B1DEBRIS Loca	910031148-20 tion: Bldg. 1 Debris Field Shingle	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	lack/Green, Homogeneous, Fibrous, Roofin ellulose 30 %, Fibrous glass 15 %, Non-fib		
Westing 11 0 201 10 1 1 1 201000000		12 ·	
PC Loca	910031148-21 tion: North Of B1 Pipe Coating	Yes	30 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: B Asbestos Types: C Other Material: N	-		
B1R1 Loca	910031148-22 tion: Bldg. 1 Main Roof Field	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	lack, Homogeneous, Fibrous, Roofing ellulose 35 %, Fibrous glass 10 %, Non-fib	rous 55 %	
B1WW1 Local	910031148-23.1 tion: Bldg. 1 West Wall Stucco	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: W Asbestos Types: Other Material: No	'hite, Homogeneous, Non-Fibrous, Stucco-S on-fibrous 100 %	Skim Coat	
B1WW1 Locat	910031148-23.2 tion: Bldg. 1 West Wall Stucco	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Ta Asbestos Types: Other Material: No	an, Heterogeneou <mark>s, Non-Fibrous, Cement</mark> itio on-fibrous 100 %	ous, Stucco-Base Coat	
	910031148-23.3 ion: Bldg. 1 West Wall Stucco	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	hite/Brown, Homogeneous, Fibrous, Drywal ellulose 15 %, Non-fibrous 85 %	1	

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B1CBB	NAD (by CVES) by Paola Ducoing on 03/10/10		
Asbestos Typ	on: Black, Homogeneous, Non-Fibrous, Basebo es: ial: Non-fibrous 100 %	ard	
B1CBB	910031148-24L2 Location: Bldg. 1 Mezzanine Baseboard w/Yell	No ow Mastic	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ	on: Yellow, Homogeneous, Non-Fibrous, Mastic es: ial: Non-fibrous 100 %		
FT3	910031148-25 Location: North Of Bldg. 1 Debris Field 9" VFT	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Type	on: Black, Homogeneous, Non-Fibrous, Flooring es: al: Non-fibrous 100 %		
B1ACT	910031148-26L1 Location: Bldg. 1 12" ACT w/Brown Mastic Botte	No om	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Type	on: White/Brown, Homogeneous, Fibrous, Ceiling es: al: Cellulose 90 %, Non-fibrous 10 %	g Tile	
B1ACT	910031148-26L2 Location: Bldg. 1 12" ACT w/Brown Mastic Botto	No om	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Type	on: Light Grey, Heterogeneous, Non-Fibrous, Ce es: al: Non-fibrous 100 %	mentitious, Plaster	
	910031148-26L3 .ocation: Bldg. 1 12" ACT w/Brown Mastic Botto n: Dark Brown, Homogeneous, Non-Fibrous, Ma		NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Type	—		

Client No. / HGA	A	Lab No.	Asbestos Present	Total % Asbestos
FT2-Green	Location: North Of Blo	910031148-27L1 dg. 1 Debris Field 9" Gree	No en VFT	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ		ous, Non-Fibrous, Floorin	g	
FT2-Green	Location: North Of Blo	910031148-27L2 dg. 1 Debris Field 9" Gree	No en VFT	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ		geneous, Non-Fibrous, M	astic	
FT2-White	Location: North Of Blo	910031148-28L1 lg. 1 Debris Field 9" Whi	Yes e VFT w/Black Mastic	3 % (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ	on: White, Homogeneo es: Chrysotile 3.0 % ial: Non-fibrous 97 %	us, Non-Fibrous, Floor T	ile	
FT2-White	Location: North Of Blo	910031148-28L2 lg. 1 Debris Field 9" Whil	No e VFT w/Black Mastic	• NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ		us, Non-Fibrous, Mastic		
B1NW1	Location: Bldg. 1 Nort	910031148-29.1 h Wall Stucco	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ	-	us, Non-Fibrous, Stucco-	Finish Coat	
B1NW1	Location: Bldg. 1 Nort	910031148-29.2 h Wall Stucco	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ		eneous, Non-Fibrous, Ce	ementitious, Stucco-Base Coat	

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
HB2ROOF Location:	910031148-30 3 Layer & Tape Paper	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	Homogeneous, Fibrous, Roofing se 65 %, Non-fibrous 35 %		
HB2RM	910031148-31 Roof Mastic	Yes	5 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black/S Asbestos Types: Chrysot Other Material: Non-fib		fing Mastic	
HB4ROOF Location:	910031148-32 Pole Barn Shed	Yes	6 % (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types: Chrysot	lomogeneous, Fibrous, Roofing ile 6.0 % se 10 %, Fibrous glass 14 %, Non-fibro	us 70 %	
HB2ROOF2 Location:	910031148-33 Roof Of Water Heater Room (Exterior)	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	łomogeneous, Fibrous, Roofing e 45 %, Non-fibrous 55 %		
HB5ROOF Location: *	910031148-34 Do Not Analyze		NA
Analyst Description: Bulk Ma Asbestos Types: Other Material:	terial		
	910031148-35 Furnace Aircell	Yes	30 % (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types: Chrysoti	ver, Homogeneous, Fibrous, Aircell le 30.0 % e 15 %, Non-fibrous 55 %		

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
AB2ROOF Location:	910031148-36	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	Homogeneous, Fibrous, Roofing se 30 %, Fibrous glass 15 %, Non-fil	brous 55 %	on 03/10/10
AB2RM Location:	910031148-37 B2 Roof Mastic	Yes	4 % (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types: Chryso	Brey, Homogeneous, Fibrous, Roofing tile 4.0 % se 4 %, Non-fibrous 92 %	ı Mastic	
AB1ROOF1 Location:	910031148-38 South Roof	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	Homogeneous, Fibrous, Roofing se 45 %, Non-fibrous 55 %		
AB1ROOF2 Location:	910031148-39 B1 Main Roof	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	łomogeneous, Fibrous, Bulk Material e 45 %, Non-fibrous 55 %		
B2ROOF Location:		No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	lomogeneous, Fibrous, Roofing e 10 %, Fibrous glass 15 %, Non-fib	rous 75 %	
34ROOF Location: F	910031148-41 Roof Field	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	omogeneous, Fibrous, Roofing e 35 %, Non-fibrous 65 %		

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PLM Bulk Asbestos Report

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B4RM Location: Roof N		Yes	3 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black/Grey, H Asbestos Types: Chrysotile 3.0 Other Material: Cellulose 15 %)%	g Mastic	
B7ROOF Location: Roof F	910031148-43 ield	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Homog Asbestos Types: Other Material: Cellulose 35 %	-		
B7RM Location: Roof M	910031148-44 ⁄lastic	Yes	5 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black/Grey, H Asbestos Types: Chrysotile 5.0 Other Material: Non-fibrous 95	%	j Mastic	
B1SWC Location: Bldg. 1	910031148-45 SW Room Ceiling	Yes	3 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Silver/Brown/E Asbestos Types: Chrysotile 3.0 Other Material: Non-fibrous 97	%	Ceiling Material	
B1SWD Location: Kem -	910031148-46 Air Sample	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Beige, Homog Asbestos Types: Other Material: Cellulose 20 %		I	
B1BTP Location: B1 Tar		Yes	10 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Homoge Asbestos Types: Chrysotile 10. Other Material: Cellulose 35 %	0 %		

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B1ROOF 910031148-48 Location: Roof Field Perimeter		No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	lomogeneous, Fibrous, Roofing e 35 %, Non-fibrous 65 %		
B1SWEX Location: I	910031148-49 Pipe L. Ext. SW	Yes	8 % (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types: Chrysoti	Homogeneous, Fibrous, Pipe Insulation le 8.0 % e 82 %, Non-fibrous 10 %		
B2INT2 Location: E	910031148-50 Bldg. 2 Interior T. Raper	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	omogeneous, Fibrous, Barrier Paper e 65 %, Non-fibrous 35 %		
B5TR Location: E	910031148-51 Ildg. 5 Transite	Yes	30 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Grey, Ho Asbestos Types: Crocidoli Other Material: Non-fibro	te 10.0 %, Chrysotile 20.0 %		
B5P1EXT Location: B	910031148-52 Idg. 5 Exterior Window Putty	Yes	2 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Grey, Ho Asbestos Types: Chrysotil Other Material: Non-fibro		у	
	910031148-53 ldg. 5 Interior Window Putty mogeneous, Non-Fibrous, Window Putty	Yes	2 % (by CVES) by Paola Ducoing on 03/10/10

40100; Mojave Solar LLC

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B6INT1 Locati	on: Bldg. 6 Interior Stucco	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Be Asbestos Types: Other Material: No	ige/Green, Heterogeneous, Non-Fibrous, Cer n-fibrous 100 %	nentitious, Stucco	
B6PW Locati	910031148-55 on: Bldg. 6 Pipe Wrap	Yes	30 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Bla Asbestos Types: Ch Other Material: No	-	2	
B6WP Locati	910031148-56 on: Bldg. 6 Window Putty	Yes	2 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Gre Asbestos Types: Ch Other Material: Nor	•	ty	
B6EWSOF Location	910031148-57 on: Bldg. 6 East Sable Shingle	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	ck, Homogeneous, Non-Fibrous, Roofing Ilulose 8 %, Non-fibrous 92 %		
B10ESC Locatio	910031148-58 on: Bldg. 10 Exterior Stucco	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Bei Asbestos Types: Other Material: Nor	ge, Heterogeneous, Non-Fibrous, Cementitio n-fibrous 100 %	us, Stucco	
B10DWC Locatio	910031148-59 on: Bldg. 10 Drywall Compound	Yes	3 % (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types: Chr	ge, Homogeneous, Fibrous, Joint Compound ysotile 3.0 % lulose 10 %, Non-fibrous 87 %	/Tape	

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Client No. / HG/	A Lab No.	Asbestos Present	Total % Asbestos
AB5EXST	NA		
Analyst Descript Asbestos Tyj Other Mate	-		
AB3PC	910031148-61 Location: Bldg. 3 Pipe Coating	Yes	30 % (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ	ion: Black/White, Homogeneous, Fibrous, Pipe Wi pes: Chrysotile 30.0 % rial: Non-fibrous 70 %	rap	
B4BB	910031148-62L1 Location: Bldg. 4 Baseboard	Yes	3 % (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ	ion: Black, Homogeneous, Non-Fibrous, Baseboar bes: Chrysotile 3.0 % rial: Non-fibrous 97 %	d .	
B4BB	910031148-62L2 Location: Bldg. 4 Baseboard	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ	ion: Yellow, Homogeneous, Non-Fibrous, Mastic bes: rial: Non-fibrous 100 %		
B4RT	910031148-63 Location: Bldg. 4 Roofing Tiles (Stoned)	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ	on: Grey, Heterogeneous, Non-Fibrous, Cementitio nes: rial: Non-fibrous 100 %	ous, Cement Tile	
	910031148-64 Location: Bldg. 4 Roof Field	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ	on: Black, Homogeneous, Fibrous, Roofing les: ial: Cellulose 15 %, Non-fibrous 85 %		

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B4LINO Loc	910031148-65L1 ation: Bldg. 4 VFT w/Black Mastic	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	Grey/Tan, Homogeneous, Fibrous, Flooring Cellulose 25 %, Non-fibrous 75 %		
		۵ <i>۲</i> –	
B4LINO Loca	910031148-65L2 ation: Bldg. 4 VFT w/Black Mastic	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	Brown/Yellow, Homogeneous, Non-Fibrous, M Non-fibrous 100 %	lastic	
B4LINO Loca	910031148-65L3 ation: Bldg. 4 VFT w/Black Mastic	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	Black, Homogeneous, Fibrous, Barrier Paper Cellulose 65 %, Non-fibrous 35 %		
B4VFT Loca	910031148-66L1 ation: Bldg, 4 VFT w/Black Mastic	Yes	4 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: G Asbestos Types: C Other Material: N	-		
B4VFT Loca	910031148-66L2 tion: Bldg. 4 VFT w/Black Mastic	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: B Asbestos Types: Other Material: N	lack, Homogeneous, Non-Fibrous, Mastic on-fibrous 100 %		
	910031148-67 tion: Tar Paper Under Wood Floor	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	lack, Homogeneous, Fibrous, Tar Paper ellulose 65 %, Non-fibrous 35 %		

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
H32WP Location: Wir	910031148-68 dow Putty	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Beige, Hon Asbestos Types: Other Material: Non-fibrous	-	v Putty	
	910031148-69 g. 2 Interior Drywall Compound	Yes	2 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Beige, Hom Asbestos Types: Chrysotile Other Material: Cellulose 1	2.0 %	ound / Tape	
AB1RM Location: Roc	910031148-70 f Mastic	Yes	5 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black/Grey Asbestos Types: Chrysotile Other Material: Non-fibrous	5.0 %	oofing Mastic	
AB1ROOF3 Location: Roo	910031148-71 f Mastic	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black/White Asbestos Types: Other Material: Fibrous glas	-	IG	
HB5ROOF Location: Roo	910031148-72 f Mastic		NA
Analyst Description: Bulk Materia Asbestos Types: Other Material:	al		
Comment: Missing san	iple.		

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
HB1ROOF Location: Re	910031148-73 oof Field	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Ho Asbestos Types:			
Other Material: Cellulose	20 %, Fibrous glass 15 %, Non-fi	brous 65 %	
HB7ROOF Location: Re	910031148-74 pof Mastic	Yes	3 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Ho Asbestos Types: Chrysotile Other Material: Cellulose		brous 62 %	
HB6ROOF Location: Ro	910031148-75 oof Mastic	Yes	3 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Ho Asbestos Types: Chrysotile Other Material: Cellulose		brous 62 %	
AB1WP Location: W	910031148-76 indow Putty	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Beige, Ho Asbestos Types: Other Material: Non-fibrou	mogeneous, Non-Fibrous, Window us 100 %	Putty	
AB1R4CC Location: "C	910031148-77 ottage Cheese" Room 4	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Beige, Ho Asbestos Types: Other Material: Non-fibrou	mogeneous, Non-Fibrous, Acoustic is 100 %	c Ceiling	
	910031148-78 om 5 Linoleum	Yes	15 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Brown/Gre Asbestos Types: Chrysotile Other Material: Cellulose S		IM	

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PLM Bulk Asbestos Report

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
AB1EXTST Locati	910031148-79.1 on: Exterior Stucco	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Wi Asbestos Types: Other Material: No	nite, Heterogeneous, Non-Fibrous, Cemen n-fibrous 100 %	titious, Stucco-Finish Coat	
AB1EXTST Locati	910031148-79.2 on: Exterior Stucco	Yes	Trace (<1 %) (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Gre Asbestos Types: Cha Other Material: Not	•	tious, Stucco-Base Coat	
AB1R3VFT Locati	910031148-80L1 on: Room 3 VFT w/Black Mastic	Yes	4 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Bro Asbestos Types: Chi Other Material: Noi	•	le	
AB1R3VFT Locatio	910031148-80L2 on: Room 3 VFT w/Black Mastic	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Bla Asbestos Types: Other Material: Nor	ck, Homogeneous, Non-Fibrous, Mastic n-fibrous 100 %		
AB1R2VFT Locatio	910031148-81L1 on: Room 2 VFT w/Black Mastic	Yes	4 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Bro Asbestos Types: Chr Other Material: Nor	-	e	
	910031148-81L2 on: Room 2 VFT w/Black Mastic	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Blac Asbestos Types: Other Material: Nor	ck, Homogeneous, Non-Fibrous, Mastic a-fibrous 100 %		

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
	910031148-82 on: Room 2 Drywall Compound	Yes	Trace (<1 %) (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Bei Asbestos Types: Chr Other Material: Nor		ompound	
AB2DWC Locati	910031148-83 on: Bldg. 2 Drywall Compound	Yes	2 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Bei Asbestos Types: Chr Other Material: Nor		ompound	
AB2WP Locatio	910031148-84 on: Bldg. 2 Window Putty	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Bei Asbestos Types: Other Material: Nor	ge, Homogeneous, Non-Fibrous, Window n-fibrous 100 %	Putty	
AB2VFT2 Locatio	910031148-85 on: Bldg. 2 Kitchen VFT	Yes	4 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Tar Asbestos Types: Chr Other Material: Nor			
AB2VFT1 Locatio	910031148-86L1 on: Bldg. 2 Main House VFT	Yes	4 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Bro Asbestos Types: Chr Other Material: Nor	7	le	
	910031148-86L2 on: Bldg. 2 Main House VFT	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Blac Asbestos Types: Other Material: Nor	ck, Homogeneous, Non-Fibrous, Mastic		

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
	910031148-87.1 a: Bldg. 2 Exterior Stucco	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: White Asbestos Types: Other Material: Non-f	e, Heterogeneous, Non-Fibrous, Cement fibrous 100 %	itious, Stucco-Finish Coat	
AB2EXST Location	910031148-87.2 Bldg. 2 Exterior Stucco	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Grey, Asbestos Types: Other Material: Non-f	Heterogeneous, Non-Fibrous, Cementit ïbrous 100 %	ious, Stucco	
AB2LINO Location	910031148-88 Bldg. 2 Linoleum	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	n/Grey/Black, Homogeneous, Non-Fibrou lose 35 %, Non-fibrous 65 %	us, Linoleum	
AB4ST Location	910031148-89 : Bldg. 4 Exterior Stucco	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Grey/ Asbestos Types: Other Material: Non-fi	Cream, Heterogeneous, Non-Fibrous, Co ibrous 100 %	ementitious, Stucco	
B1NWBB Location	910031148-90L1 : Bldg. 1 North West Room Baseboard v	No w/Mastic	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Asbestos Types: Other Material: Non-fi	, Homogeneous, Non-Fibrous, Baseboar ibrous 100 %	d	
	910031148-90L2 Bldg. 1 North West Room Baseboard v	<i>No</i> w/Mastic	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Yellow Asbestos Types: Other Material: Non-fi	v, Homogeneous, Non-Fibrous, Mastic brous 100 %		

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PLM Bulk Asbestos Report

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B1EW1 Loc	910031148-91.1 ation: Bldg. 1 East Wall Stucco	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	Off-White, Homogeneous, Non-Fibrous, Stucc Non-fibrous 100 %	o-Skim Coat	
B1EW1 Loc	910031148-91.2 ation: Bldg. 1 East Wall Stucco	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	Beige, Heterogeneous, Non-Fibrous, Cementit Non-fibrous 100 %	ious, Stucco-Base Coat	
B1RF2-1 Loc	910031148-92 ation: Bldg. 1 Debris Field White Pebble Root	No f Felt	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	Black/White, Homogeneous, Fibrous, Roofing Fibrous glass 15 %, Non-fibrous 85 %		
B1RF2-2 Loc	910031148-93 ation: Bldg. 1 Debris Field Brown Pebble Roo	No f Felt	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	Black/Brown, Homogeneous, Fibrous, Roofing Cellulose 35 %, Non-fibrous 65 %		
HB2B1L Loca	910031148-94 ation: NW Bathroom Linoleum	No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	Fan/Green, Homogeneous, Fibrous, Linoleum Cellulose 35 %, Non-fibrous 65 %		
	910031148-95 ation: NE Bathroom Linoleum	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Types:	Tan/Green, Homogeneous, Fibrous, Linoleum Cellulose 35 %, Non-fibrous 65 %		

Client No. / HG/	Lab	No. Asbe	estos Present	Total % Asbestos
B10-TP	910031 Location: Tar Paper Under Stucco)	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ	on: Black, Homogeneous, Fibrous, ees: ial: Cellulose 65 %, Non-fibrous 35			
VIIII VIII VIIII VIIIII VIIII VIIIII VIIII				
B1W2WD	910031 Location: Bldg. 1 West Wall Wind		Yes	2 % (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ	on: Grey, Homogeneous, Non-Fibro es: Chrysotile 2.0 % ial: Non-fibrous 98 %	ous, Window Putty		
B7EXTLINO	910031 Location: Bldg. 7 East Exterior Lin		Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ	on: Multi-Colored, Homogeneous, F es: ial: Cellulose 35 %, Non-fibrous 65			
B1R5UFT	91003114 Location: Bldg. 1 Mezzanine South		Yes	4 % (by CVES) by Paola Ducoing on 03/10/10
Asbestos Typ	on: Green, Hornogeneous, Non-Fibr es: Chrysotile 4.0 % al: Non-fibrous 96 %	ous, Floor Tile		
B1R5UFT	91003114 Location: Bldg. 1 Mezzanine South		Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Type	on: Black, Homogeneous, Non-Fibro es: al: Non-fibrous 100 %	ous, Mastic		
B6R5SC	91003114 ocation: Bldg. 6 Room 5 N. Wall S.		No	NAD (by CVES) by Paola Ducoing on 03/10/10
Asbestos Type	n: Off-White, Heterogeneous, Non- es: al: Non-fibrous 100 %	Fibrous, Cementitious, S	ikim Coat	

40100; Mojave Solar LLC

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B7EXFT Location:	910031148-101L1 Bldg. 7 Exterior VFT Eastern Side	Yes	4 % (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Tan, Ho Asbestos Types: Chrysof Other Material: Non-fib			
B7EXFT Location:	910031148-101L2 Bldg. 7 Exterior VFT Eastern Side	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, F Asbestos Types: Other Material: Non-fib	-lomogeneous, Non-Fibrous, Mastic rous 100 %		
B10WP Location:	910031148-102 Bldg. 10 Window Putty	Νο	NAD (by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Beige, I Asbestos Types: Other Material: Non-fib	Homogeneous, Non-Fibrous, Window F rous 100 %	Putty	

Reporting Notes:

_; Date Analyzed: 3/10/2010 <u>/</u>

m Analyzed By: Paola Ducoing _ *NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0, CA ELAP lab #2322); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced excepting full with the appropriat of the laboratory. This PLM report relates ONLY to the items tested. Reviewed By:

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ABC Environmental Laboratories

Dr. Wang Alpha Scientific Corporation 16760 Gridley Road Cerritos, CA 90703

Project:AD003012Project Site:Mojave Solar LLCSample Date:3/1/2010Lab Job No.:AS10C010

Dear Dr. Wang:

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 3/6/2010 and analyzed by the following EPA method:

EPA 8151A (Chlorinated Herbicides)

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

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Enclosures

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

Project:

1640 S. Grove Ave., Suite B Ontario, CA 91761 Tel: (909)923-8628 (562)413-8343 Fax: (909)923-8628

3/9/2010

ABC Environmental Laboratories

Client:	Alpha Scientific Corporation	Lab Job No.:	AS10C010
Project:	AD003012	Date Sampled:	3/1/2010
Project Site:	Mojave Solar LLC	Date Received:	3/6/2010
Matrix:	Soil	Date Extracted:	3/6/2010
Batch No.:	0309-HES-S	Date Analyzed:	3/9/2010
		Date Reported	3/9/2010

EPA 8151A (Chlorinated Herbicides) Reporting Unit: ug/kg (PPB)

Lab Sample I.D.		Method Blank	ing Unit: μg/kg (PPB) AS10C010-1	
Client Sample I.D.			AG-1	
Compound	RL			
2,4-DB	10	ND	ND	
2,4-D	5	ND	ND	
Dalapon	5	ND	ND	
Dicamba	5	ND	ND	
Dichloroprop	5	ND	ND	
Dinoseb	5	ND	ND	
МСРА	200	ND	ND	
МСРР	200	ND	ND	
4-Nitrophenol	5	ND	ND	
Pentachlorophenol	5	ND	ND	
Silvex	5	ND	ND	

ND: Not Detected (Below RL).

RL: Reporting Limit.

ABC Environmental Laboratories

EPA 8151A Batch QA/QC Report

Client:	Alpha Scientific Corporation	Lab Job No.:	AS10C010
Project:	AD003012	Lab Sample ID:	AS10C010-1
Matrix:	Soil	Date Analyzed:	3/9/2010
Batch No.:	0309-HES-S	Date Reported	3/9/2010

I. MS/MSD Report

	Unit: µg/kg														
Compound	ound Sample Spike MS				MS	MSD	%RPD	%RPD	%Rec.						
	Conc.	Conc.			%Rec.	%Rec.		Accept	Accept						
								Limit	Limit						
Dicamba	ND	50.0	43.1	42.5	86	85	1	≤30	45-198						
Silvex	ND	50.0	40.3	39.5	81	79	2	≤30	38-198						
2,4,5-T	ND	50.0	41.6	45.2	83	90	8	≤30	62-176						

II. LCS Report

	Unit:µg/kg												
Compound	MB	Report Value	True Value	Rec. %	Accept Limit								
Dicamba	ND	47.6	50	95	50 -180								
Silvex	ND	43.5	50	87	42 -180								
2,4,5-T	ND	45.1	50	90	68 -160								

ND: Not Detected (Below Reporting Limit).

MB : Method Blank.

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PESTICIDE & HERBICIDE SAMPLING EVALUATION

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1.0 Introduction

1.1 *Hypothetical Basis for Evaluation*

The following evaluation is based on a <u>hypothetical</u> analysis of pesticide use on an agricultural use property. As part of this analysis, the proposed Mojave Solar LLC project (hereafter referred to as the "Site") is considered as being historically used for an orchard (rationale of this designation further explained below). From scores of site characterizations that *Alaska Petroleum Environmental Engineering, Inc.* has conducted in southern California in Kern, Los Angeles, Orange, Riverside, Ventura, and San Bernardino counties, organochlorine pesticides (OCPs") have only been detected above residential regulatory action limits in:

- Orchards and former orchards, and
- Storage areas and related spills (i.e., one residential site where commercial flower farming was conducted and pesticides were mixed, stored and over applied; and the Los Angeles County Agricultural Commissions field office where pesticides and herbicides for the entire county were stored and mixed (i.e., spills).

Thousands of acres have been investigated upon which grains, vegetables/fruits (e.g., strawberries, etc.), and animal feedstock has been grown. Pesticides/herbicides have not been detected above regulatory action limits.

1.2 Worst Case Scenario

OCPs were first introduced into California agriculture in 1944 and reached their peak usage in the 1960s. In 1974, the use of DDT, an (OCP), was banned in California for agricultural purposes, and the elimination of remaining OCPs quickly followed.

For this evaluation, DDT is being considered as it was primarily used in fruit orchards [information obtained from the Los Angeles County Agricultural Commission, Department of Pesticides]. DDT has one of the longest pesticide/ herbicide "half-lives" ("half-life" is defined in Section 2.0). Therefore, in this worst case scenario analysis, the following assumptions were used:

- DDT was used following the manufacturer's application rates, and
- it is calculated that the residual DDT concentration would be currently below all regulatory action limits or human health based risk goals,

then any other pesticide/herbicide that may have been applied, which are all known to have shorter "half-lives", would also pose no environmental or health effects as the residual concentration(s) would be even less than DDT.

1.3 Subject Property and Potential Pesticide Use

The Site is approximately 1,800 acres in size. It had been used for agricultural purposes (i.e., grains, alfalfa, etc.) and it is known that pesticide(s) were used in the agricultural operations.

1.4 *Purpose and Objectives*

The intent of this review is to determine if sampling for pesticides was warranted. Fruit orchards are being used in this analysis as they typically had the highest pesticide application rates.

2.0 Nature of Pesticides

"Half-life" is a measure of the persistence of a pesticide in soil; it is the amount of time required for one-half of the material to degrade. Based upon degradation rates, pesticides can be categorized as:

- > <u>non-persistent</u>: "half-life" less than 30 days,
- > <u>moderately persistent</u>: "half-life" 30 to 100 days, or
- > <u>persistent</u>: "half-life" greater than 100 days.

A "typical" soil "half-life" value is an approximation and may vary greatly because persistence is sensitive to variations in a site's soil, climate, etc. The sorption coefficient ("Koc") describes the tendency of a pesticide to bind to soil particles and is derived from laboratory data. Sorption retards movement, and may also increase persistence because the pesticide is protected from degradation. The higher the Koc, the greater the sorption potential. Many soil and pesticide factors may influence the actual sorption of a pesticide to soil.

The Groundwater Ubiquity Score ("GUS") is an empirically derived value that relates pesticide persistence (half-life) and sorption in soil (Koc). The GUS may be used to rank pesticides for their potential to vertically migrate to groundwater:

GUS = log10 ("half-life") x [4 - log10 (Koc)]

The pesticide movement rating is derived from the GUS. Movement ratings range from "extremely low" to "very high". Pesticides with a GUS less than 0.1 are considered to have an extremely low potential to migrate towards groundwater. Values of:

- 1.0 2.0 are "low"
- 2.0 3.0 are "moderate",
- 3.0 4.0 are "high", and
- values greater than 4.0 have a "very high" potential to migrate towards groundwater.

Solubility describes the amount of pesticide that will dissolve in a known volume of water. The higher the solubility, the more soluble the pesticide. Highly soluble pesticides are more likely to be removed from the soil by runoff (e.g., from stormwater, excessive irrigation, etc.) or by moving below the plant's root zone with excess water.

3.0 Historical Use of Pesticides in Orchards

For this discussion, chemical compounds included under the general classification of "pesticides" are herbicides, insecticides, rodenticides, fungicides, and "others". The likelihood of finding elevated concentrations of pesticides would be greater on properties where the chemical usage was higher due to the type of crops that were planted such as fruit orchards as compared to grains (e.g., alfalfa, etc.).

A copy of that portion of the "Interim Guidance for Sampling Agricultural Soils", California Environmental Protection Agency - Department of Toxic Substances Control ("DTSC"), June 28, 2000 pertaining to the analyses and "half-life" of commonly used pesticides/herbicides (i.e., degradation rates) is included as *Attachment* 1. According to the Los Angeles Agricultural Commission, Department of Pesticides (Mr. Jahan Motakef), the most commonly used pesticides in fruit orchards before the 1970s were DDT and Carbaryl (trade name of "Sevin").

With respect to the aforementioned criterion pertaining to the nature of pesticides, the following applies to these chemicals [Pesticide Properties Database, Kerle & Jenkins, 07/24/94].

Pesticide	Movement Rating	Soil Half-Life (days)	Water Solubility (mg/l)	Sorption Coefficient (soil Koc)		
DDT	Extremely Low	2,000	0.0055	2,000,000		
Carbaryl ("Sevin")	Low	10	120	300		

DDT is commonly used as a benchmark in determining if residual pesticides may be a concern on a property because it has one of the longest "half-lifes". Therefore, if the concentration of DDT were low all other pesticides would have degraded earlier since they have a shorter half-life.

4.0 **Regulatory Basis for Sampling Agricultural Use Properties**

Pesticide sampling strategies utilized in California are conservative since they were developed for new or expansion of existing, school sites. These strategies were expanded to ensure that inappropriate fill material was not imported onto other "sensitive" land use properties such as day care centers, homes, hospitals, etc.

Included in the pesticide guidelines are sampling strategies pertaining to the presence of regulated "heavy" metals which were used in both pesticides and fertilizers formulations. In addition to pesticides/herbicides and regulated "heavy" metals, other constituents of concern ("COC") are addressed in these guidelines which may be present at concentrations above regulatory action levels or applicable health-based risk goals in imported soils. COCs also typically include asbestos and hydrocarbons.

Specifically for <u>agricultural use</u> properties the DTSC guidance document,

- (1) "does <u>not apply</u> to disturbed land, such as, land that has been graded in preparation for construction, areas where imported soil has been brought in, or any other activity that would redistribute the soil, other than normal disking and plowing";
- (2) "is not applicable to areas where pesticides were mixed, stored, disposed, or areas where pesticides may have accumulated, such as ponds and drainage ditches";

- (3) states that "animal facilities such as cattle and poultry barns, settling ponds, and manure piles" are excluded; and
- (4) indicates that agricultural usage on properties "ending prior to 1950" do not need to be evaluated for pesticides; however, "arsenical pesticides and herbicides predates 1950" and should be evaluated.

The USEPA RSLs have been established for various chemical and inorganic compounds (e.g., regulated "heavy" metals), which pertain to residential and industrial properties. A RSL is defined as that constituent concentration that is acceptable to remain in-place.

4.1 Sampling Protocols in Agricultural Fields for School Sites

Please note that this sampling strategy presents a "worse-case" scenario, as it pertains to <u>school sites</u>; the Site will be a concentrating solar plant (electrical generation). Therefore, the human exposure pathways (e.g., ingestion, inhalation and dermal contact) are short-term and are only applicable for an on-Site construction worker.Samples should be collected at each location at the surface (zero to six inches) and from two to three feet below ground surface and analyzed for pesticides. For a property over 50 acres in size, the DTSC should be contacted in order to determine the suggested minimum number of sample locations.

In addition, a minimum of four on-Site "background" soil samples should be collected for regulated "heavy" metal analysis. DTSC limited the regulated "heavy" metal analysis to the 17 California Assessment Manual ("CAM") metals. A list of the 17 CAM metals and the applicable USEPA RSLs for residential use properties is presented in *Attachment* **4**. Included in this attachment is also the RSL for DDT.

4.2 Sampling Protocols for Soil Import to "Sensitive" Sites

No information was made available if any soil will be imported to the Site. If this may happen, there are regulatory guidelines for soil sampling to ensure that the import source is "clean". The DTSC developed the following sampling strategies.

Sample Frequency							
Area of Individual Borrow Area (acres)	Samples Requirements						
2 or less	Minimum of 4 samples						
2 to 4	Minimum of 1 sample every ½ acre						
4 to 10	Minimum of 8 samples						
Greater than 10	Minimum of 8 locations with 4 sub-samples per						

Recommended Fill Material Sampling Schedule

	location
Sample Frequency (cubic yards ["cy"])	
Volume of Borrow Area Stockpile (cy)	Samples per Volume
Less than 1,000	1 sample per 250 cy
1,001 to 5,000	4 samples for first 1,000 cy, plus 1 sample for each additional 500 cy
5,000+	12 samples for the first 5,000 cy, plus 1 sample per each additional 1,000 cy

5.0 Technical Evaluation

- The DTSC sampling guidelines pertaining to agricultural properties (i.e., for pesticides and regulated "heavy" metals) <u>do not apply</u> because the Site will:
 - (1) not be developed into a school facility, and
 - (2) will be graded for construction purposes.
- The DTSC sampling guidelines pertaining to soil imported to "sensitive" <u>sites</u> <u>does apply, only if</u> the grading plans call:
 - (1) for import, and the import comes from an past or present agricultural use property, or potentially if,
 - (2) there is export of the Site soil to another "sensitive" use site.
- *If* DDT and/or Carbayl ("Sevin") were used at the Site, DDT would be the predominant COC. DDT has a high sorption coefficient, which retards movement within the soil matrix, thereby making it more persistent in nature, and its half-life is approximately 5.5 years (2,000 days). Therefore, given the following Site information regarding DDT use:
 - in the interim time period from 1974 (when DDT was banned for use on agricultural properties) and 2010, DDT would have degraded by 6.6 half-lives;
 - > the USEPA residential RSL for DDT is 1.7 parts per million ("ppm");
 - the typical application rate for DDT over two treated acres of fruit groves would be anywhere between a few ounces to a few pounds; without knowing the application rates and duration of treatment the potential residual amount of DDT in the soil cannot be determined.

The following calculation, using "reverse" mathematics, provides useful information as to a "typical" DDT application rate. For example, given:

- 1. The residential use RSL is 1.7 ppm.
- 2. DDT has a half-life of about 5.5 years (2,000 days).
- 3. Assuming the Site currently contains DDT at the residential RSL, when it was applied 36 years ago (i.e., 6.55 half-lives), the concentration would be about 125 ppm.

PRG	1 st ½ life	2 nd	3rd	4^{th}	5 th	6 th	7 th
1.7	x2	x2	x2	x2	x2	x2	x2
=	3.4	6.8	13.6	27.2	54.5	81.6	163.2

The question is how many grams or pounds were applied which is equivalent to 125 ppm? Using the following assumptions or given:

- (1) DDT is only present in the upper one inch of soil on one acre,
- (2) soil density is 1.35 tons per cubic yard, and
- (3) unit conversion factors ("cf"):

(1 acre)(43,560 square feet per acre^[cf])(1 inch DDT soil penetration/12 inches per foot^[cf])(1 cubic yard per 27 cubic feet^[cf])(1.35 tons per cubic yard)(2,000 pounds per ton ^[cf]) =

363,000 pounds of soil on 1 acre to a depth of 1 inch.

By definition, ppm is the equivalent to any unit of measurement per one million of that measurement. For example, using pounds as a basis:

1 ppm = 1 pound of something per 1,000,000 pounds of something.

In the DDT example above, at an initial concentration of 125 ppm, the pounds of DDT, which would have been applied, is as follows.

125 pounds of DDT per million pounds of soil, and 363,000 pounds of soil per 1 acre to a depth of 1 inch or:

(125/1,000,000)(363,000) = 40.4 pounds of DDT applied

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This is about 40 times higher than what is considered the maximum DDT application rate (i.e., a few pounds per <u>two</u> acres). Therefore, the likelihood of finding DDT above the residential RSL is very low after 6.5 half-lives. **NOTE**: the commercial property use (i.e., the Site) RSL is 7.0 ppm. Therefore, higher concentrations of OCPs would be "acceptable".

6.0 Conclusion

No other pertinent data can be determined due to the datagaps cited above; specifically, regarding:

- types of pesticides <u>potentially</u> used,
- pesticide application rates, and
- the duration of the treatment (i.e., how many years).

In general, the aforementioned data should clarify the possibility of soil toxicity based upon the Site's historical agricultural usage. Based upon the aforementioned pesticide analysis and State guidelines, it appears that the use of pesticides should not be an issue with respect to any proposed development.